S Y S T E M S B Y

HOWATHERM
A Swegon Group company

Product Information in Accordance with EU Regulation 2024/1834 System ETA by HOWATHERM

This catalog contains the ecodesign requirements for product information on fans in accordance with EU Regulation 2024/1834 of July 3, 2024, Annex II, Section 2, No. 2, letters a–o

Manufacturer:	HOWATHERM Klimatechnik GmbH - A Swegon Group company Keiperweg 11-15 55767 Brücken (Germany)
Version / Revision status:	v.2611EN / 04.11.2026
Revision status fan type G:	23.07.2026
Revision status fan type Z:	23.07.2021
Revision status fan type Z BF:	23.07.2021
Revision status motor Elektra IE3:	29.09.2026
Revision status motor Elektra IE4:	29.09.2026
Revision status motor Innomotics IE3:	29.09.2026
Revision status motor Innomotics IE4:	24.09.2026

The following product information has been calculated and is based on a database provided by our suppliers. This data is beyond our control.

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This document was originally drafted in German. All other language Version are translations.

Explanation of the Model Identifier

This document lists all fan models available from HOWATHERM Klimatechnik GmbH as of the date of each respective publication.
Each fan has a unique model identifier, which can be used to clearly identify and retrieve the corresponding technical specifications in the catalog below.
To select the correct version of this document, please refer to the revision history.
The model identifier is composed as follows:

Example: Z225 E00370-IE3-2AS-S

Z225: Manufacturer of the impeller, impeller size and, if applicable, a suffix for the impeller series (e.g., BF)
- Z XXX: Ziehl Abegg impeller
- G XXX: Nicotra Gebhardt impeller

- 225: 225 mm Impeller diameter

E00370: Manufacturer of the electric motor and its rated power in watts
- E: Elektra
- I: Innomotics
- 00370: Rated power of 370 watts

IE3: Energy efficiency class of the electric motor
- IE3
- IE4

2AS: Number of pole pairs in the electric motor and motor technology used
- 2: n ≈ 3000 rpm (50 Hz)
- 4: n ≈ 1500 rpm (50 Hz)
- 6: n ≈ 1000 rpm (50 Hz)
- 8: n ≈ 750 rpm (50 Hz)

- AS: Induction motor

S: Information whether the fan is standard or in accordance with ATEX directive
- S: Standard
- A: ATEX directive

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Revision	Date
System ETA EU 2024-1834 v.2607DE	07/26
System ETA EU 2024-1834 v.2611DE	11/26
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Z225 E00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA32-0,55KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	53	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1401	m³/h
	0,39	m³/s
Applicable pressure difference Δp at BEP:	967	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z225 I00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA32-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	53	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1401	m³/h
	0,39	m³/s
Applicable pressure difference Δp at BEP:	967	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z225 E00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA2-0,75KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	1555	m³/h
	0,43	m³/s
Applicable pressure difference Δp at BEP:	1191	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4568	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 I00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA22-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	1555	m³/h
	0,43	m³/s
Applicable pressure difference Δp at BEP:	1191	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4568	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	1768	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	1539	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5196	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	1768	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	1539	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5196	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	1960	m³/h
	0,54	m³/s
Applicable pressure difference Δp at BEP:	1891	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5764	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	1960	m³/h
	0,54	m³/s
Applicable pressure difference Δp at BEP:	1891	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5764	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z225 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,911	kW
Volume flow rate qV at BEP:	2020	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	2008	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,911	kW
Volume flow rate qV at BEP:	2020	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	2008	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,842	kW
Volume flow rate qV at BEP:	2020	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	2008	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z225 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z225 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH22C (Z-ETA 225)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,842	kW
Volume flow rate qV at BEP:	2020	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	2008	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z250 E00370-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E00370-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA22-0,37KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	51	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,501	kW
Volume flow rate qV at BEP:	1548	m³/h
	0,43	m³/s
Applicable pressure difference Δp at BEP:	598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3002	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z250 I00370-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I00370-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA22-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	51	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,501	kW
Volume flow rate qV at BEP:	1548	m³/h
	0,43	m³/s
Applicable pressure difference Δp at BEP:	598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3002	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA32-0,55KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1777	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	788	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3437	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z250 I00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA32-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1777	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	788	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3437	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA2-0,75KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	1975	m³/h
	0,55	m³/s
Applicable pressure difference Δp at BEP:	974	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3811	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA22-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	1975	m³/h
	0,55	m³/s
Applicable pressure difference Δp at BEP:	974	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3811	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2246	m³/h
	0,62	m³/s
Applicable pressure difference Δp at BEP:	1259	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4320	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2246	m³/h
	0,62	m³/s
Applicable pressure difference Δp at BEP:	1259	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4320	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2489	m³/h
	0,69	m³/s
Applicable pressure difference Δp at BEP:	1547	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4777	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2489	m³/h
	0,69	m³/s
Applicable pressure difference Δp at BEP:	1547	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4777	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,476	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,476	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z250 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,441	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,387	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,441	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z250 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z250 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH25C (Z-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,387	kW
Volume flow rate qV at BEP:	2794	m³/h
	0,78	m³/s
Applicable pressure difference Δp at BEP:	1948	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5350	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E00370-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E00370-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CB32-0,37KW-1500
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	53	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,479	kW
Volume flow rate qV at BEP:	1746	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	519	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2441	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z280 I00370-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I00370-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CB32-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	53	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,479	kW
Volume flow rate qV at BEP:	1746	m³/h
	0,49	m³/s
Applicable pressure difference Δp at BEP:	519	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2441	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2012	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	689	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2805	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA32-0,55KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	54	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	2012	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	689	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2805	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2012	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	689	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2805	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA32-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	54	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	2012	m³/h
	0,56	m³/s
Applicable pressure difference Δp at BEP:	689	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2805	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z280 E00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA2-0,75KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2242	m³/h
	0,62	m³/s
Applicable pressure difference Δp at BEP:	855	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3119	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA22-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2242	m³/h
	0,62	m³/s
Applicable pressure difference Δp at BEP:	855	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3119	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2555	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3549	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2555	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3549	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2837	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	1369	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3934	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2837	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	1369	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3934	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z280 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	3224	m³/h
	0,90	m³/s
Applicable pressure difference Δp at BEP:	1768	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4464	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	3224	m³/h
	0,90	m³/s
Applicable pressure difference Δp at BEP:	1768	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4464	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,095	kW
Volume flow rate qV at BEP:	3450	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	2024	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4775	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,026	kW
Volume flow rate qV at BEP:	3450	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	2024	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4775	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,095	kW
Volume flow rate qV at BEP:	3450	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	2024	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4775	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z280 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z280 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH28C (Z-ETA 280)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,026	kW
Volume flow rate qV at BEP:	3450	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	2024	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4775	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2553	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2330	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2553	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2330	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z315 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	2832	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	684	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2580	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	2832	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	684	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2580	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

Z315 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	3218	m³/h
	0,89	m³/s
Applicable pressure difference Δp at BEP:	883	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2925	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	3218	m³/h
	0,89	m³/s
Applicable pressure difference Δp at BEP:	883	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2925	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z315 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3569	m³/h
	0,99	m³/s
Applicable pressure difference Δp at BEP:	1086	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3239	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3569	m³/h
	0,99	m³/s
Applicable pressure difference Δp at BEP:	1086	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3239	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4055	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	1402	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3674	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4055	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	1402	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3674	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	4496	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	4496	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	4496	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	4496	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z315 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,869	kW
Volume flow rate qV at BEP:	4692	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	1877	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4245	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,788	kW
Volume flow rate qV at BEP:	4692	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	1877	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4245	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,869	kW
Volume flow rate qV at BEP:	4692	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	1877	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4245	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z315 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z315 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RH31C (Z-ETA 315)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,788	kW
Volume flow rate qV at BEP:	4692	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	1877	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4245	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2727	m³/h
	0,76	m³/s
Applicable pressure difference Δp at BEP:	517	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1882	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355 I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2727	m³/h
	0,76	m³/s
Applicable pressure difference Δp at BEP:	517	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1882	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3028	m³/h
	0,84	m³/s
Applicable pressure difference Δp at BEP:	638	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2090	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3028	m³/h
	0,84	m³/s
Applicable pressure difference Δp at BEP:	638	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2090	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3444	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2378	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3444	m³/h
	0,96	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2378	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	3820	m³/h
	1,06	m³/s
Applicable pressure difference Δp at BEP:	1015	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2638	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	3820	m³/h
	1,06	m³/s
Applicable pressure difference Δp at BEP:	1015	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2638	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4340	m³/h
	1,21	m³/s
Applicable pressure difference Δp at BEP:	1310	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2996	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4340	m³/h
	1,21	m³/s
Applicable pressure difference Δp at BEP:	1310	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2996	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	4811	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	1609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3321	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	4811	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	1609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3321	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	4811	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	1609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3321	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	4811	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	1609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3321	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z355 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	5454	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	2068	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	5454	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	2068	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	5454	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	2068	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RH35C (Z-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	5454	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	2068	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3825	m³/h
	1,06	m³/s
Applicable pressure difference Δp at BEP:	515	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1736	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3825	m³/h
	1,06	m³/s
Applicable pressure difference Δp at BEP:	515	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1736	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4346	m³/h
	1,21	m³/s
Applicable pressure difference Δp at BEP:	665	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1971	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4346	m³/h
	1,21	m³/s
Applicable pressure difference Δp at BEP:	665	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1971	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4819	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	818	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2183	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4819	m³/h
	1,34	m³/s
Applicable pressure difference Δp at BEP:	818	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2183	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5476	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	1056	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2478	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5476	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	1056	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2478	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5476	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	1056	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2478	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5476	m³/h
	1,52	m³/s
Applicable pressure difference Δp at BEP:	1056	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2478	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6074	m³/h
	1,69	m³/s
Applicable pressure difference Δp at BEP:	1299	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2746	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6074	m³/h
	1,69	m³/s
Applicable pressure difference Δp at BEP:	1299	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2746	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6074	m³/h
	1,69	m³/s
Applicable pressure difference Δp at BEP:	1299	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2746	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6074	m³/h
	1,69	m³/s
Applicable pressure difference Δp at BEP:	1299	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2746	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	6686	m³/h
	1,86	m³/s
Applicable pressure difference Δp at BEP:	1574	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3020	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	6686	m³/h
	1,86	m³/s
Applicable pressure difference Δp at BEP:	1574	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3020	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	6686	m³/h
	1,86	m³/s
Applicable pressure difference Δp at BEP:	1574	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3020	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	6686	m³/h
	1,86	m³/s
Applicable pressure difference Δp at BEP:	1574	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3020	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA0-5,5KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,078	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA0-5.5KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,965	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400 I05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA03-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,078	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA03-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,965	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400 E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,018	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,913	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400 I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,018	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400 I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400 I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RH40C (Z-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,913	kW
Volume flow rate qV at BEP:	7401	m³/h
	2,06	m³/s
Applicable pressure difference Δp at BEP:	1928	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	56	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	4535	m³/h
	1,26	m³/s
Applicable pressure difference Δp at BEP:	420	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1391	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5184	m³/h
	1,44	m³/s
Applicable pressure difference Δp at BEP:	549	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1591	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5184	m³/h
	1,44	m³/s
Applicable pressure difference Δp at BEP:	549	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1591	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5765	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	679	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5765	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	679	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6564	m³/h
	1,82	m³/s
Applicable pressure difference Δp at BEP:	880	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2016	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6564	m³/h
	1,82	m³/s
Applicable pressure difference Δp at BEP:	880	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2016	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6564	m³/h
	1,82	m³/s
Applicable pressure difference Δp at BEP:	880	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2016	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6564	m³/h
	1,82	m³/s
Applicable pressure difference Δp at BEP:	880	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2016	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7284	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	1083	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2236	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7284	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	1083	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2236	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7284	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	1083	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2236	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7284	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	1083	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2236	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8018	m³/h
	2,23	m³/s
Applicable pressure difference Δp at BEP:	1313	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2461	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8018	m³/h
	2,23	m³/s
Applicable pressure difference Δp at BEP:	1313	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2461	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8018	m³/h
	2,23	m³/s
Applicable pressure difference Δp at BEP:	1313	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2461	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8018	m³/h
	2,23	m³/s
Applicable pressure difference Δp at BEP:	1313	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2461	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	8913	m³/h
	2,48	m³/s
Applicable pressure difference Δp at BEP:	1622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	8913	m³/h
	2,48	m³/s
Applicable pressure difference Δp at BEP:	1622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	8913	m³/h
	2,48	m³/s
Applicable pressure difference Δp at BEP:	1622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	8913	m³/h
	2,48	m³/s
Applicable pressure difference Δp at BEP:	1622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,830	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,694	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,830	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,694	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450 E11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA2-11,0KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,736	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 E11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA2-11.0KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,619	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA23-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,736	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 I11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA23-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,619	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450 E15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA3-15,0KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,677	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 E15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA3-15.0KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,562	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA33-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,677	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450 I15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA33-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,562	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450 E18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA4-18,5KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,635	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450 E18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 E18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA4-18.5KW-3000
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,529	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450 I18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA43-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,635	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450 I18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450 I18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA43-4AB4-Z
Fan model:	RH45C (Z-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,529	kW
Volume flow rate qV at BEP:	9682	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1914	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	57	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	5113	m³/h
	1,42	m³/s
Applicable pressure difference Δp at BEP:	384	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1154	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I00750-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I00750-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AD42-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	54	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,000	kW
Volume flow rate qV at BEP:	5113	m³/h
	1,42	m³/s
Applicable pressure difference Δp at BEP:	384	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1154	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	5815	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	496	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1313	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

Z500 I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	5815	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	496	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1313	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	611	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1457	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	611	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1457	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	7334	m³/h
	2,04	m³/s
Applicable pressure difference Δp at BEP:	789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1657	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	7334	m³/h
	2,04	m³/s
Applicable pressure difference Δp at BEP:	789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1657	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	7334	m³/h
	2,04	m³/s
Applicable pressure difference Δp at BEP:	789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1657	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	7334	m³/h
	2,04	m³/s
Applicable pressure difference Δp at BEP:	789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1657	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8134	m³/h
	2,26	m³/s
Applicable pressure difference Δp at BEP:	971	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1838	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8134	m³/h
	2,26	m³/s
Applicable pressure difference Δp at BEP:	971	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1838	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8134	m³/h
	2,26	m³/s
Applicable pressure difference Δp at BEP:	971	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1838	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8134	m³/h
	2,26	m³/s
Applicable pressure difference Δp at BEP:	971	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1838	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8953	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	1176	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2024	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8953	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	1176	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2024	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8953	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	1176	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2024	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8953	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	1176	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2024	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	9956	m³/h
	2,77	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2251	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	9956	m³/h
	2,77	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2251	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	9956	m³/h
	2,77	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2251	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	9956	m³/h
	2,77	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2251	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	11040	m³/h
	3,07	m³/s
Applicable pressure difference Δp at BEP:	1789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2497	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	11040	m³/h
	3,07	m³/s
Applicable pressure difference Δp at BEP:	1789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2497	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	11040	m³/h
	3,07	m³/s
Applicable pressure difference Δp at BEP:	1789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2497	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	11040	m³/h
	3,07	m³/s
Applicable pressure difference Δp at BEP:	1789	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2497	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,088	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,882	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,088	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,882	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,011	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,819	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,011	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,819	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,957	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,788	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,957	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH50C (Z-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,788	kW
Volume flow rate qV at BEP:	11826	m³/h
	3,28	m³/s
Applicable pressure difference Δp at BEP:	2052	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	56	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6525	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	421	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1085	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	56	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6525	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	421	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1085	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7279	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	524	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1211	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7279	m³/h
	2,02	m³/s
Applicable pressure difference Δp at BEP:	524	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1211	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	8312	m³/h
	2,31	m³/s
Applicable pressure difference Δp at BEP:	684	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	8312	m³/h
	2,31	m³/s
Applicable pressure difference Δp at BEP:	684	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	8312	m³/h
	2,31	m³/s
Applicable pressure difference Δp at BEP:	684	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9241	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	845	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1539	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9241	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	845	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1539	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9241	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	845	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1539	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z560 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9241	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	845	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1539	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10187	m³/h
	2,83	m³/s
Applicable pressure difference Δp at BEP:	1027	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1697	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10187	m³/h
	2,83	m³/s
Applicable pressure difference Δp at BEP:	1027	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1697	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10187	m³/h
	2,83	m³/s
Applicable pressure difference Δp at BEP:	1027	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1697	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10187	m³/h
	2,83	m³/s
Applicable pressure difference Δp at BEP:	1027	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1697	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	11340	m³/h
	3,15	m³/s
Applicable pressure difference Δp at BEP:	1272	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	11340	m³/h
	3,15	m³/s
Applicable pressure difference Δp at BEP:	1272	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	11340	m³/h
	3,15	m³/s
Applicable pressure difference Δp at BEP:	1272	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	11340	m³/h
	3,15	m³/s
Applicable pressure difference Δp at BEP:	1272	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	12580	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1566	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2096	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	12580	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1566	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2096	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	12580	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1566	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2096	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	12580	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1566	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2096	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,985	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,761	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,985	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,761	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,901	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 E15000-IE4-4AS-S

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Model identifier:	Z560 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,692	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,901	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,692	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,842	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,658	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,842	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH56C (Z-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,658	kW
Volume flow rate qV at BEP:	13867	m³/h
	3,85	m³/s
Applicable pressure difference Δp at BEP:	1903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	8162	m³/h
	2,27	m³/s
Applicable pressure difference Δp at BEP:	482	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1014	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	8162	m³/h
	2,27	m³/s
Applicable pressure difference Δp at BEP:	482	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1014	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	9267	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	621	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1152	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	9267	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	621	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1152	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	9267	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	621	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1152	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	10273	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	764	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1277	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	10273	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	764	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1277	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	10273	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	764	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1277	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	11305	m³/h
	3,14	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1406	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	12569	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1143	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1564	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	12569	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1143	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1564	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	12569	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1143	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1564	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	12569	m³/h
	3,49	m³/s
Applicable pressure difference Δp at BEP:	1143	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1564	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13937	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1406	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13937	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1406	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13937	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1406	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13937	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1406	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1735	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	15836	m³/h
	4,40	m³/s
Applicable pressure difference Δp at BEP:	1815	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1972	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	15836	m³/h
	4,40	m³/s
Applicable pressure difference Δp at BEP:	1815	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1972	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	15836	m³/h
	4,40	m³/s
Applicable pressure difference Δp at BEP:	1815	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1972	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	15836	m³/h
	4,40	m³/s
Applicable pressure difference Δp at BEP:	1815	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1972	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,609	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,348	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,609	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,348	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,536	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,306	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,536	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH63C (Z-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	13,306	kW
Volume flow rate qV at BEP:	16540	m³/h
	4,59	m³/s
Applicable pressure difference Δp at BEP:	1980	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD0
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	11549	m³/h
	3,21	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	933	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710 E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	11549	m³/h
	3,21	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	933	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD02-2AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	11549	m³/h
	3,21	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	933	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z710 I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	11549	m³/h
	3,21	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	933	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	11549	m³/h
	3,21	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	933	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	12831	m³/h
	3,56	m³/s
Applicable pressure difference Δp at BEP:	611	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1037	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710 I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	12831	m³/h
	3,56	m³/s
Applicable pressure difference Δp at BEP:	611	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1037	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	12831	m³/h
	3,56	m³/s
Applicable pressure difference Δp at BEP:	611	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1037	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14135	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	742	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1144	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14135	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	742	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1144	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	14135	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	742	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1144	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	15724	m³/h
	4,37	m³/s
Applicable pressure difference Δp at BEP:	918	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1274	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	15724	m³/h
	4,37	m³/s
Applicable pressure difference Δp at BEP:	918	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1274	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z710 I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	15724	m³/h
	4,37	m³/s
Applicable pressure difference Δp at BEP:	918	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1274	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z710 I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z710 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z710 I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z710 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	17436	m³/h
	4,84	m³/s
Applicable pressure difference Δp at BEP:	1129	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1415	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z710 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	19799	m³/h
	5,50	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1609	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	19799	m³/h
	5,50	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1609	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	19799	m³/h
	5,50	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1609	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	19799	m³/h
	5,50	m³/s
Applicable pressure difference Δp at BEP:	1455	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1609	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	21941	m³/h
	6,09	m³/s
Applicable pressure difference Δp at BEP:	1787	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1786	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	21941	m³/h
	6,09	m³/s
Applicable pressure difference Δp at BEP:	1787	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1786	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	21941	m³/h
	6,09	m³/s
Applicable pressure difference Δp at BEP:	1787	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1786	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	21941	m³/h
	6,09	m³/s
Applicable pressure difference Δp at BEP:	1787	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1786	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,711	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,410	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,711	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,410	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,634	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,354	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,634	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710 I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710 I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RH71C (Z-ETA 710)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	17,354	kW
Volume flow rate qV at BEP:	22599	m³/h
	6,28	m³/s
Applicable pressure difference Δp at BEP:	1896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 E02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD0
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14026	m³/h
	3,90	m³/s
Applicable pressure difference Δp at BEP:	403	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	764	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD02-2AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14026	m³/h
	3,90	m³/s
Applicable pressure difference Δp at BEP:	403	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	764	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	14026	m³/h
	3,90	m³/s
Applicable pressure difference Δp at BEP:	403	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	764	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 E03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD2
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	15605	m³/h
	4,33	m³/s
Applicable pressure difference Δp at BEP:	499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	851	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 I03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD22-2AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	15605	m³/h
	4,33	m³/s
Applicable pressure difference Δp at BEP:	499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	851	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I03000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I03000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD22-2AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,492	kW
Volume flow rate qV at BEP:	15605	m³/h
	4,33	m³/s
Applicable pressure difference Δp at BEP:	499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	851	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD2
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z800 I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	17210	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	606	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	940	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z800 E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	19162	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	752	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1048	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	19162	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	752	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1048	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	19162	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	752	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1048	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	21261	m³/h
	5,91	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1163	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	21261	m³/h
	5,91	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1163	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	21261	m³/h
	5,91	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1163	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	24156	m³/h
	6,71	m³/s
Applicable pressure difference Δp at BEP:	1194	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1324	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	24156	m³/h
	6,71	m³/s
Applicable pressure difference Δp at BEP:	1194	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1324	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	24156	m³/h
	6,71	m³/s
Applicable pressure difference Δp at BEP:	1194	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1324	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z800 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z800 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	26776	m³/h
	7,44	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1468	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z800 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,978	kW
Volume flow rate qV at BEP:	28703	m³/h
	7,97	m³/s
Applicable pressure difference Δp at BEP:	1687	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1575	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z800 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,639	kW
Volume flow rate qV at BEP:	28703	m³/h
	7,97	m³/s
Applicable pressure difference Δp at BEP:	1687	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1575	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z800 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,978	kW
Volume flow rate qV at BEP:	28703	m³/h
	7,97	m³/s
Applicable pressure difference Δp at BEP:	1687	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1575	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,639	kW
Volume flow rate qV at BEP:	28703	m³/h
	7,97	m³/s
Applicable pressure difference Δp at BEP:	1687	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1575	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,634	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,427	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,634	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,291	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 E30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AB5-30,0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,496	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800 E30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2AB5-30.0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,201	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AB53-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,496	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z800 I30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AB53-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,201	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z800 E37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BB0-37,0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,427	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 E37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 E37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2BB0-37.0KW-1500
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,134	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BB03-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,427	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800 I37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800 I37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BB03-4AB4-Z
Fan model:	RH80C (Z-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	21,134	kW
Volume flow rate qV at BEP:	29515	m³/h
	8,20	m³/s
Applicable pressure difference Δp at BEP:	1783	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	19948	m³/h
	5,54	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	757	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD3
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	22303	m³/h
	6,20	m³/s
Applicable pressure difference Δp at BEP:	641	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	846	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD33-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	22303	m³/h
	6,20	m³/s
Applicable pressure difference Δp at BEP:	641	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	846	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	22303	m³/h
	6,20	m³/s
Applicable pressure difference Δp at BEP:	641	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	846	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 E07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD4
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I07500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I07500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1DD43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,399	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	24812	m³/h
	6,89	m³/s
Applicable pressure difference Δp at BEP:	793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	943	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	28245	m³/h
	7,85	m³/s
Applicable pressure difference Δp at BEP:	1028	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1078	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	28245	m³/h
	7,85	m³/s
Applicable pressure difference Δp at BEP:	1028	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1078	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	28245	m³/h
	7,85	m³/s
Applicable pressure difference Δp at BEP:	1028	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1078	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	31332	m³/h
	8,70	m³/s
Applicable pressure difference Δp at BEP:	1264	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	31332	m³/h
	8,70	m³/s
Applicable pressure difference Δp at BEP:	1264	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	31332	m³/h
	8,70	m³/s
Applicable pressure difference Δp at BEP:	1264	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	33594	m³/h
	9,33	m³/s
Applicable pressure difference Δp at BEP:	1454	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1292	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	33594	m³/h
	9,33	m³/s
Applicable pressure difference Δp at BEP:	1454	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1292	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	33594	m³/h
	9,33	m³/s
Applicable pressure difference Δp at BEP:	1454	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1292	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	35578	m³/h
	9,88	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1372	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	35578	m³/h
	9,88	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1372	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	35578	m³/h
	9,88	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1372	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 E30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AB5-30,0KW-1500
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,003	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AB53-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,003	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,818	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,096	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,096	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,727	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,972	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E45000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E45000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BB2-45,0KW-1500
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,818	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 E45000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 E45000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2BB2-45.0KW-1500
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,456	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,972	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z900 I45000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I45000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BB23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,818	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,636	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900 I45000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900 I45000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BB23-4AB4-Z
Fan model:	RH90C (Z-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	28,456	kW
Volume flow rate qV at BEP:	38147	m³/h
	10,60	m³/s
Applicable pressure difference Δp at BEP:	1874	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1475	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	27419	m³/h
	7,62	m³/s
Applicable pressure difference Δp at BEP:	515	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	701	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I07500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I07500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1DD43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,399	kW
Volume flow rate qV at BEP:	30521	m³/h
	8,48	m³/s
Applicable pressure difference Δp at BEP:	638	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	779	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 E11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1ED4
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	34773	m³/h
	9,66	m³/s
Applicable pressure difference Δp at BEP:	828	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-1ED43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	34773	m³/h
	9,66	m³/s
Applicable pressure difference Δp at BEP:	828	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	34773	m³/h
	9,66	m³/s
Applicable pressure difference Δp at BEP:	828	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	38602	m³/h
	10,72	m³/s
Applicable pressure difference Δp at BEP:	1020	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	38602	m³/h
	10,72	m³/s
Applicable pressure difference Δp at BEP:	1020	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I15000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I15000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AD53-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	38602	m³/h
	10,72	m³/s
Applicable pressure difference Δp at BEP:	1020	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	38602	m³/h
	10,72	m³/s
Applicable pressure difference Δp at BEP:	1020	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	41409	m³/h
	11,50	m³/s
Applicable pressure difference Δp at BEP:	1174	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	41409	m³/h
	11,50	m³/s
Applicable pressure difference Δp at BEP:	1174	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	41409	m³/h
	11,50	m³/s
Applicable pressure difference Δp at BEP:	1174	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	43873	m³/h
	12,19	m³/s
Applicable pressure difference Δp at BEP:	1318	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1117	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	43873	m³/h
	12,19	m³/s
Applicable pressure difference Δp at BEP:	1318	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1117	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	43873	m³/h
	12,19	m³/s
Applicable pressure difference Δp at BEP:	1318	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1117	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	48637	m³/h
	13,51	m³/s
Applicable pressure difference Δp at BEP:	1619	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1237	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	48637	m³/h
	13,51	m³/s
Applicable pressure difference Δp at BEP:	1619	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1237	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,847	kW
Volume flow rate qV at BEP:	48637	m³/h
	13,51	m³/s
Applicable pressure difference Δp at BEP:	1619	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1237	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,576	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,576	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,124	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,424	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,424	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH10C (Z-ETA 1000)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	35,013	kW
Volume flow rate qV at BEP:	50302	m³/h
	13,97	m³/s
Applicable pressure difference Δp at BEP:	1732	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1280	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	39601	m³/h
	11,00	m³/s
Applicable pressure difference Δp at BEP:	722	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	707	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 E15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AD5
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	43980	m³/h
	12,22	m³/s
Applicable pressure difference Δp at BEP:	891	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	783	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2AD53-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	43980	m³/h
	12,22	m³/s
Applicable pressure difference Δp at BEP:	891	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	783	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I15000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I15000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AD53-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	43980	m³/h
	12,22	m³/s
Applicable pressure difference Δp at BEP:	891	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	783	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 E18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BD0
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	47193	m³/h
	13,11	m³/s
Applicable pressure difference Δp at BEP:	1026	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2BD03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	64,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	47193	m³/h
	13,11	m³/s
Applicable pressure difference Δp at BEP:	1026	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I18500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I18500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BD03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	47193	m³/h
	13,11	m³/s
Applicable pressure difference Δp at BEP:	1026	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	840	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 E22000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E22000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BD2
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	24,283	kW
Volume flow rate qV at BEP:	50015	m³/h
	13,89	m³/s
Applicable pressure difference Δp at BEP:	1152	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 I22000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I22000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2BD23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	65,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	24,283	kW
Volume flow rate qV at BEP:	50015	m³/h
	13,89	m³/s
Applicable pressure difference Δp at BEP:	1152	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I22000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I22000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BD23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,887	kW
Volume flow rate qV at BEP:	50015	m³/h
	13,89	m³/s
Applicable pressure difference Δp at BEP:	1152	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	889	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	55475	m³/h
	15,41	m³/s
Applicable pressure difference Δp at BEP:	1417	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	55475	m³/h
	15,41	m³/s
Applicable pressure difference Δp at BEP:	1417	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I30000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I30000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CD23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,362	kW
Volume flow rate qV at BEP:	55475	m³/h
	15,41	m³/s
Applicable pressure difference Δp at BEP:	1417	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,847	kW
Volume flow rate qV at BEP:	55475	m³/h
	15,41	m³/s
Applicable pressure difference Δp at BEP:	1417	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	39,657	kW
Volume flow rate qV at BEP:	59489	m³/h
	16,52	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1054	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	39,657	kW
Volume flow rate qV at BEP:	59489	m³/h
	16,52	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1054	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	39,153	kW
Volume flow rate qV at BEP:	59489	m³/h
	16,52	m³/s
Applicable pressure difference Δp at BEP:	1630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1054	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	48,026	kW
Volume flow rate qV at BEP:	63490	m³/h
	17,64	m³/s
Applicable pressure difference Δp at BEP:	1856	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1123	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	48,026	kW
Volume flow rate qV at BEP:	63490	m³/h
	17,64	m³/s
Applicable pressure difference Δp at BEP:	1856	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1123	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	47,468	kW
Volume flow rate qV at BEP:	63490	m³/h
	17,64	m³/s
Applicable pressure difference Δp at BEP:	1856	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1123	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z1120 E55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC2-55,0KW-1000
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	57,016	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	57,016	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120 I55000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I55000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC23-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	56,417	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 E75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 E75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-3AC0-75,0KW-1000
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	56,715	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 I75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-3AC03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	66,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	56,715	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120 I75000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120 I75000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-3AC03-4AB4-Z
Fan model:	RH11C (Z-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	56,239	kW
Volume flow rate qV at BEP:	67312	m³/h
	18,70	m³/s
Applicable pressure difference Δp at BEP:	2087	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1190	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	3050	m³/h
	0,85	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	3050	m³/h
	0,85	m³/s
Applicable pressure difference Δp at BEP:	495	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3384	m³/h
	0,94	m³/s
Applicable pressure difference Δp at BEP:	609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2157	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3384	m³/h
	0,94	m³/s
Applicable pressure difference Δp at BEP:	609	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2157	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3846	m³/h
	1,07	m³/s
Applicable pressure difference Δp at BEP:	786	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2451	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3846	m³/h
	1,07	m³/s
Applicable pressure difference Δp at BEP:	786	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2451	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4266	m³/h
	1,18	m³/s
Applicable pressure difference Δp at BEP:	968	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2719	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4266	m³/h
	1,18	m³/s
Applicable pressure difference Δp at BEP:	968	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2719	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4848	m³/h
	1,35	m³/s
Applicable pressure difference Δp at BEP:	1250	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3091	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4848	m³/h
	1,35	m³/s
Applicable pressure difference Δp at BEP:	1250	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3091	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	5377	m³/h
	1,49	m³/s
Applicable pressure difference Δp at BEP:	1537	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3429	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	5377	m³/h
	1,49	m³/s
Applicable pressure difference Δp at BEP:	1537	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3429	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	5377	m³/h
	1,49	m³/s
Applicable pressure difference Δp at BEP:	1537	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3429	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	5377	m³/h
	1,49	m³/s
Applicable pressure difference Δp at BEP:	1537	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3429	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,313	kW
Volume flow rate qV at BEP:	5900	m³/h
	1,64	m³/s
Applicable pressure difference Δp at BEP:	1851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z355BF E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,222	kW
Volume flow rate qV at BEP:	5900	m³/h
	1,64	m³/s
Applicable pressure difference Δp at BEP:	1851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,313	kW
Volume flow rate qV at BEP:	5900	m³/h
	1,64	m³/s
Applicable pressure difference Δp at BEP:	1851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z355BF I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z355BF I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RH35I (Z-ETA 355 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,222	kW
Volume flow rate qV at BEP:	5900	m³/h
	1,64	m³/s
Applicable pressure difference Δp at BEP:	1851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4057	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	509	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1742	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4057	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	509	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1742	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4612	m³/h
	1,28	m³/s
Applicable pressure difference Δp at BEP:	657	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1980	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4612	m³/h
	1,28	m³/s
Applicable pressure difference Δp at BEP:	657	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1980	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5117	m³/h
	1,42	m³/s
Applicable pressure difference Δp at BEP:	809	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2197	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5117	m³/h
	1,42	m³/s
Applicable pressure difference Δp at BEP:	809	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2197	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5816	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	1045	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2499	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5816	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	1045	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2499	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z400BF I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5816	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	1045	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2499	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5816	m³/h
	1,62	m³/s
Applicable pressure difference Δp at BEP:	1045	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2499	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	1286	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2774	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	1286	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2774	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	1286	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2774	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6452	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	1286	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2774	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	7104	m³/h
	1,97	m³/s
Applicable pressure difference Δp at BEP:	1559	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z400BF E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	7104	m³/h
	1,97	m³/s
Applicable pressure difference Δp at BEP:	1559	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	7104	m³/h
	1,97	m³/s
Applicable pressure difference Δp at BEP:	1559	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	7104	m³/h
	1,97	m³/s
Applicable pressure difference Δp at BEP:	1559	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA0-5,5KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,717	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA0-5.5KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,611	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA03-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,717	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA03-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,611	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,660	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,562	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,660	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z400BF I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z400BF I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RH40I (Z-ETA 400 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,562	kW
Volume flow rate qV at BEP:	7762	m³/h
	2,16	m³/s
Applicable pressure difference Δp at BEP:	1862	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	4693	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	434	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1444	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4693	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	434	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1444	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4693	m³/h
	1,30	m³/s
Applicable pressure difference Δp at BEP:	434	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1444	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5341	m³/h
	1,48	m³/s
Applicable pressure difference Δp at BEP:	562	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1643	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5341	m³/h
	1,48	m³/s
Applicable pressure difference Δp at BEP:	562	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1643	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5929	m³/h
	1,65	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1824	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5929	m³/h
	1,65	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1824	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z450BF E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6744	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2074	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6744	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2074	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6744	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2074	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6744	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	896	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2074	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7484	m³/h
	2,08	m³/s
Applicable pressure difference Δp at BEP:	1103	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2301	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7484	m³/h
	2,08	m³/s
Applicable pressure difference Δp at BEP:	1103	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2301	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450BF I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7484	m³/h
	2,08	m³/s
Applicable pressure difference Δp at BEP:	1103	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2301	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7484	m³/h
	2,08	m³/s
Applicable pressure difference Δp at BEP:	1103	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2301	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8242	m³/h
	2,29	m³/s
Applicable pressure difference Δp at BEP:	1338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8242	m³/h
	2,29	m³/s
Applicable pressure difference Δp at BEP:	1338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	8242	m³/h
	2,29	m³/s
Applicable pressure difference Δp at BEP:	1338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	8242	m³/h
	2,29	m³/s
Applicable pressure difference Δp at BEP:	1338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA0-5,5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,166	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA0-5.5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,051	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA03-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,166	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA03-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,051	kW
Volume flow rate qV at BEP:	9170	m³/h
	2,55	m³/s
Applicable pressure difference Δp at BEP:	1656	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2818	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,103	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,979	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,103	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,979	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA2-11,0KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,018	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA2-11.0KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,911	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA23-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,018	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA23-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,911	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA3-15,0KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,964	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA3-15.0KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,860	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA33-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,964	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z450BF I15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA33-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,860	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF E18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA4-18,5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,926	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF E18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF E18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA4-18.5KW-3000
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,830	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z450BF I18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA43-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,926	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z450BF I18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z450BF I18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA43-4AB4-Z
Fan model:	RH45I (Z-ETA 450 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,830	kW
Volume flow rate qV at BEP:	9666	m³/h
	2,69	m³/s
Applicable pressure difference Δp at BEP:	1840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2970	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	5653	m³/h
	1,57	m³/s
Applicable pressure difference Δp at BEP:	368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1176	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I00750-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I00750-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AD42-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,000	kW
Volume flow rate qV at BEP:	5653	m³/h
	1,57	m³/s
Applicable pressure difference Δp at BEP:	368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1176	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6427	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	476	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1338	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6427	m³/h
	1,79	m³/s
Applicable pressure difference Δp at BEP:	476	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1338	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	7129	m³/h
	1,98	m³/s
Applicable pressure difference Δp at BEP:	585	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	7129	m³/h
	1,98	m³/s
Applicable pressure difference Δp at BEP:	585	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	8100	m³/h
	2,25	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1687	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	8100	m³/h
	2,25	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1687	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	8100	m³/h
	2,25	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1687	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	8100	m³/h
	2,25	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1687	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500BF E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8981	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	929	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1870	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8981	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	929	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1870	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8981	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	929	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1870	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8981	m³/h
	2,49	m³/s
Applicable pressure difference Δp at BEP:	929	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1870	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	9883	m³/h
	2,75	m³/s
Applicable pressure difference Δp at BEP:	1125	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2058	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	9883	m³/h
	2,75	m³/s
Applicable pressure difference Δp at BEP:	1125	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2058	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500BF I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	9883	m³/h
	2,75	m³/s
Applicable pressure difference Δp at BEP:	1125	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2058	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500BF I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	9883	m³/h
	2,75	m³/s
Applicable pressure difference Δp at BEP:	1125	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2058	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	10987	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1390	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2287	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	10987	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1390	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2287	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	10987	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1390	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2287	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	10987	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1390	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2287	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	12179	m³/h
	3,38	m³/s
Applicable pressure difference Δp at BEP:	1708	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2535	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	12179	m³/h
	3,38	m³/s
Applicable pressure difference Δp at BEP:	1708	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2535	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	12179	m³/h
	3,38	m³/s
Applicable pressure difference Δp at BEP:	1708	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2535	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	12179	m³/h
	3,38	m³/s
Applicable pressure difference Δp at BEP:	1708	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2535	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500BF E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,409	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,218	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,409	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,218	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,338	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z500BF E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,159	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z500BF I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,338	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,159	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z500BF E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,287	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,130	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,287	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z500BF I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z500BF I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH50I (Z-ETA 500 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,130	kW
Volume flow rate qV at BEP:	12853	m³/h
	3,57	m³/s
Applicable pressure difference Δp at BEP:	1902	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2675	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	6298	m³/h
	1,75	m³/s
Applicable pressure difference Δp at BEP:	334	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1001	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I00750-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I00750-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AD42-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,000	kW
Volume flow rate qV at BEP:	6298	m³/h
	1,75	m³/s
Applicable pressure difference Δp at BEP:	334	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1001	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	7155	m³/h
	1,99	m³/s
Applicable pressure difference Δp at BEP:	431	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1137	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	7155	m³/h
	1,99	m³/s
Applicable pressure difference Δp at BEP:	431	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1137	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7933	m³/h
	2,20	m³/s
Applicable pressure difference Δp at BEP:	530	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1261	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7933	m³/h
	2,20	m³/s
Applicable pressure difference Δp at BEP:	530	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1261	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560BF E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	76,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560BF I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	76,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	9013	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	683	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1432	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9993	m³/h
	2,78	m³/s
Applicable pressure difference Δp at BEP:	840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1588	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9993	m³/h
	2,78	m³/s
Applicable pressure difference Δp at BEP:	840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1588	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9993	m³/h
	2,78	m³/s
Applicable pressure difference Δp at BEP:	840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1588	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9993	m³/h
	2,78	m³/s
Applicable pressure difference Δp at BEP:	840	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1588	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10997	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1018	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1748	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10997	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1018	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1748	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560BF I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10997	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1018	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1748	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10997	m³/h
	3,05	m³/s
Applicable pressure difference Δp at BEP:	1018	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1748	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	12227	m³/h
	3,40	m³/s
Applicable pressure difference Δp at BEP:	1258	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	12227	m³/h
	3,40	m³/s
Applicable pressure difference Δp at BEP:	1258	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560BF I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	12227	m³/h
	3,40	m³/s
Applicable pressure difference Δp at BEP:	1258	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z560BF I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	12227	m³/h
	3,40	m³/s
Applicable pressure difference Δp at BEP:	1258	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1944	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13557	m³/h
	3,77	m³/s
Applicable pressure difference Δp at BEP:	1546	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2156	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13557	m³/h
	3,77	m³/s
Applicable pressure difference Δp at BEP:	1546	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2156	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13557	m³/h
	3,77	m³/s
Applicable pressure difference Δp at BEP:	1546	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2156	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13557	m³/h
	3,77	m³/s
Applicable pressure difference Δp at BEP:	1546	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2156	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,974	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,750	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,974	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,750	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,890	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z560BF E15000-IE4-4AS-S

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Model identifier:	Z560BF E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,682	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z560BF I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,890	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z560BF I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,682	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,832	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,648	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,832	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z560BF I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z560BF I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH56I (Z-ETA 560 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,648	kW
Volume flow rate qV at BEP:	14512	m³/h
	4,03	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2310	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	9018	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	467	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	9018	m³/h
	2,50	m³/s
Applicable pressure difference Δp at BEP:	467	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	10243	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	603	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1175	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	10243	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	603	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1175	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	10243	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	603	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1175	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	11359	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	741	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1303	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	11359	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	741	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1303	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	11359	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	741	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1303	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630BF I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	12505	m³/h
	3,47	m³/s
Applicable pressure difference Δp at BEP:	898	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1435	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630BF E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	13910	m³/h
	3,86	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1596	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	13910	m³/h
	3,86	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1596	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Managing Director Dr.-Ing. Christoph Kaup
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Z630BF I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	13910	m³/h
	3,86	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1596	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	13910	m³/h
	3,86	m³/s
Applicable pressure difference Δp at BEP:	1111	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1596	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	15430	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z630BF E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	15430	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	15430	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	15430	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1368	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1771	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	17541	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1767	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2012	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	17541	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1767	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2012	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630BF I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	17541	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1767	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2012	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	17541	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1767	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2012	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,269	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,034	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,269	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,034	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z630BF E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,203	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z630BF E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,996	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,203	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z630BF I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z630BF I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH63I (Z-ETA 630 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,996	kW
Volume flow rate qV at BEP:	17982	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1857	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2060	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF E02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD0
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	12288	m³/h
	3,41	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	962	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	12288	m³/h
	3,41	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	962	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD02-2AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	12288	m³/h
	3,41	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	962	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	12288	m³/h
	3,41	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	962	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	12288	m³/h
	3,41	m³/s
Applicable pressure difference Δp at BEP:	513	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	962	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	13622	m³/h
	3,78	m³/s
Applicable pressure difference Δp at BEP:	630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1068	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	13622	m³/h
	3,78	m³/s
Applicable pressure difference Δp at BEP:	630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1068	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	13622	m³/h
	3,78	m³/s
Applicable pressure difference Δp at BEP:	630	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1068	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14987	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	763	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1177	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14987	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	763	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1177	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z710BF I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	14987	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	763	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1177	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	16657	m³/h
	4,63	m³/s
Applicable pressure difference Δp at BEP:	942	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1312	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	16657	m³/h
	4,63	m³/s
Applicable pressure difference Δp at BEP:	942	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1312	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z710BF I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	16657	m³/h
	4,63	m³/s
Applicable pressure difference Δp at BEP:	942	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1312	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	18460	m³/h
	5,13	m³/s
Applicable pressure difference Δp at BEP:	1157	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1459	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	20957	m³/h
	5,82	m³/s
Applicable pressure difference Δp at BEP:	1492	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1664	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	20957	m³/h
	5,82	m³/s
Applicable pressure difference Δp at BEP:	1492	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1664	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	20957	m³/h
	5,82	m³/s
Applicable pressure difference Δp at BEP:	1492	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1664	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	20957	m³/h
	5,82	m³/s
Applicable pressure difference Δp at BEP:	1492	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1664	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,302	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,066	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,302	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,066	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,235	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,028	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z710BF I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,235	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,028	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,183	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,989	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,183	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z710BF I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z710BF I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RH71I (Z-ETA 710 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,989	kW
Volume flow rate qV at BEP:	21402	m³/h
	5,95	m³/s
Applicable pressure difference Δp at BEP:	1556	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1700	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD0
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14965	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	418	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD02-2AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14965	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	418	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	14965	m³/h
	4,16	m³/s
Applicable pressure difference Δp at BEP:	418	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD2
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	16603	m³/h
	4,61	m³/s
Applicable pressure difference Δp at BEP:	514	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD22-2AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	16603	m³/h
	4,61	m³/s
Applicable pressure difference Δp at BEP:	514	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I03000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I03000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD22-2AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,492	kW
Volume flow rate qV at BEP:	16603	m³/h
	4,61	m³/s
Applicable pressure difference Δp at BEP:	514	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	887	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	18276	m³/h
	5,08	m³/s
Applicable pressure difference Δp at BEP:	623	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	975	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Model identifier:	Z800BF I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	18276	m³/h
	5,08	m³/s
Applicable pressure difference Δp at BEP:	623	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	975	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	18276	m³/h
	5,08	m³/s
Applicable pressure difference Δp at BEP:	623	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	975	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	18276	m³/h
	5,08	m³/s
Applicable pressure difference Δp at BEP:	623	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	975	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	20320	m³/h
	5,64	m³/s
Applicable pressure difference Δp at BEP:	770	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1083	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	20320	m³/h
	5,64	m³/s
Applicable pressure difference Δp at BEP:	770	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1083	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	20320	m³/h
	5,64	m³/s
Applicable pressure difference Δp at BEP:	770	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1083	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	22526	m³/h
	6,26	m³/s
Applicable pressure difference Δp at BEP:	947	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1199	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	22526	m³/h
	6,26	m³/s
Applicable pressure difference Δp at BEP:	947	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1199	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	22526	m³/h
	6,26	m³/s
Applicable pressure difference Δp at BEP:	947	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1199	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	25579	m³/h
	7,11	m³/s
Applicable pressure difference Δp at BEP:	1221	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1360	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	25579	m³/h
	7,11	m³/s
Applicable pressure difference Δp at BEP:	1221	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1360	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	25579	m³/h
	7,11	m³/s
Applicable pressure difference Δp at BEP:	1221	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1360	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	28349	m³/h
	7,87	m³/s
Applicable pressure difference Δp at BEP:	1499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1505	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z800BF E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	28349	m³/h
	7,87	m³/s
Applicable pressure difference Δp at BEP:	1499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1505	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	28349	m³/h
	7,87	m³/s
Applicable pressure difference Δp at BEP:	1499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1505	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	28349	m³/h
	7,87	m³/s
Applicable pressure difference Δp at BEP:	1499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1505	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,436	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,157	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,436	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,157	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,366	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,106	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,366	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,106	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AB5-30,0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,261	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z800BF E30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2AB5-30.0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,038	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AB53-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,261	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AB53-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,038	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BB0-37,0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,209	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF E37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF E37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2BB0-37.0KW-1500
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,987	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BB03-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,209	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z800BF I37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z800BF I37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BB03-4AB4-Z
Fan model:	RH80I (Z-ETA 800 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,987	kW
Volume flow rate qV at BEP:	28871	m³/h
	8,02	m³/s
Applicable pressure difference Δp at BEP:	1555	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1525	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF E04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD2
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	20896	m³/h
	5,80	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	795	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	20896	m³/h
	5,80	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	795	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	20896	m³/h
	5,80	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	795	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD3
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	23234	m³/h
	6,45	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	884	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD33-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	23234	m³/h
	6,45	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	884	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	23234	m³/h
	6,45	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	884	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD4
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I07500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I07500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1DD43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,399	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	25766	m³/h
	7,16	m³/s
Applicable pressure difference Δp at BEP:	825	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z900BF E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	29282	m³/h
	8,13	m³/s
Applicable pressure difference Δp at BEP:	1065	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1111	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z900BF I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	29282	m³/h
	8,13	m³/s
Applicable pressure difference Δp at BEP:	1065	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1111	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z900BF I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	29282	m³/h
	8,13	m³/s
Applicable pressure difference Δp at BEP:	1065	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1111	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z900BF E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	32480	m³/h
	9,02	m³/s
Applicable pressure difference Δp at BEP:	1310	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1230	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	32480	m³/h
	9,02	m³/s
Applicable pressure difference Δp at BEP:	1310	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1230	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	32480	m³/h
	9,02	m³/s
Applicable pressure difference Δp at BEP:	1310	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1230	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	34839	m³/h
	9,68	m³/s
Applicable pressure difference Δp at BEP:	1508	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1318	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	34839	m³/h
	9,68	m³/s
Applicable pressure difference Δp at BEP:	1508	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1318	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	34839	m³/h
	9,68	m³/s
Applicable pressure difference Δp at BEP:	1508	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1318	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,548	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,548	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,219	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,393	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,393	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,111	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,305	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,305	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,048	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z900BF E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,219	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,219	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z900BF I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z900BF I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH90I (Z-ETA 900 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,984	kW
Volume flow rate qV at BEP:	35437	m³/h
	9,84	m³/s
Applicable pressure difference Δp at BEP:	1560	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1340	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF E05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD3
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	27590	m³/h
	7,66	m³/s
Applicable pressure difference Δp at BEP:	570	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	722	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD33-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	27590	m³/h
	7,66	m³/s
Applicable pressure difference Δp at BEP:	570	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	722	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	27590	m³/h
	7,66	m³/s
Applicable pressure difference Δp at BEP:	570	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	722	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF E07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD4
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	30594	m³/h
	8,50	m³/s
Applicable pressure difference Δp at BEP:	700	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	30594	m³/h
	8,50	m³/s
Applicable pressure difference Δp at BEP:	700	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I07500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I07500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1DD43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,399	kW
Volume flow rate qV at BEP:	30594	m³/h
	8,50	m³/s
Applicable pressure difference Δp at BEP:	700	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	800	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF E11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1ED4
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-1ED43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z1000BF I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	34741	m³/h
	9,65	m³/s
Applicable pressure difference Δp at BEP:	903	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	909	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Z1000BF E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	38500	m³/h
	10,69	m³/s
Applicable pressure difference Δp at BEP:	1109	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1007	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	38500	m³/h
	10,69	m³/s
Applicable pressure difference Δp at BEP:	1109	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1007	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	38500	m³/h
	10,69	m³/s
Applicable pressure difference Δp at BEP:	1109	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1007	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	41266	m³/h
	11,46	m³/s
Applicable pressure difference Δp at BEP:	1274	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1079	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	41266	m³/h
	11,46	m³/s
Applicable pressure difference Δp at BEP:	1274	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1079	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	41266	m³/h
	11,46	m³/s
Applicable pressure difference Δp at BEP:	1274	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1079	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	43698	m³/h
	12,14	m³/s
Applicable pressure difference Δp at BEP:	1429	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1143	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	43698	m³/h
	12,14	m³/s
Applicable pressure difference Δp at BEP:	1429	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1143	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	43698	m³/h
	12,14	m³/s
Applicable pressure difference Δp at BEP:	1429	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1143	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	27,130	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	27,130	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	26,756	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	27,014	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1000BF I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	27,014	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z1000BF I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	26,671	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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Z1000BF E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	26,899	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	74	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	26,899	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1000BF I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1000BF I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH10I (Z-ETA 1000 BF)

Fan efficiency η:	75	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	26,586	kW
Volume flow rate qV at BEP:	45904	m³/h
	12,75	m³/s
Applicable pressure difference Δp at BEP:	1577	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1ED4
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	36861	m³/h
	10,24	m³/s
Applicable pressure difference Δp at BEP:	817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	801	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-1ED43-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	36861	m³/h
	10,24	m³/s
Applicable pressure difference Δp at BEP:	817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	801	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	36861	m³/h
	10,24	m³/s
Applicable pressure difference Δp at BEP:	817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	801	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF E15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AD5
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	40874	m³/h
	11,35	m³/s
Applicable pressure difference Δp at BEP:	1004	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	888	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2AD53-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	40874	m³/h
	11,35	m³/s
Applicable pressure difference Δp at BEP:	1004	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	888	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I15000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I15000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AD53-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	40874	m³/h
	11,35	m³/s
Applicable pressure difference Δp at BEP:	1004	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	888	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BD0
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2BD03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	67,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I18500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I18500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BD03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	43833	m³/h
	12,18	m³/s
Applicable pressure difference Δp at BEP:	1155	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	952	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	46438	m³/h
	12,90	m³/s
Applicable pressure difference Δp at BEP:	1296	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1009	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	46438	m³/h
	12,90	m³/s
Applicable pressure difference Δp at BEP:	1296	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1009	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	46438	m³/h
	12,90	m³/s
Applicable pressure difference Δp at BEP:	1296	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1009	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,165	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,165	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,735	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,031	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,031	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,637	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,899	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,899	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,540	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF E55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC2-55,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,767	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,767	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I55000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I55000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC23-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,444	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF E75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF E75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-3AC0-75,0KW-1000
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,605	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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Z1120BF I75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-3AC03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,605	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Z1120BF I75000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	Z1120BF I75000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-3AC03-4AB4-Z
Fan model:	RH11I (Z-ETA 1120 BF)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	30,348	kW
Volume flow rate qV at BEP:	51558	m³/h
	14,32	m³/s
Applicable pressure difference Δp at BEP:	1598	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1120	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 E00370-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E00370-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA22-0,37KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,501	kW
Volume flow rate qV at BEP:	1740	m³/h
	0,48	m³/s
Applicable pressure difference Δp at BEP:	570	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 I00370-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I00370-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA22-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	55	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,501	kW
Volume flow rate qV at BEP:	1740	m³/h
	0,48	m³/s
Applicable pressure difference Δp at BEP:	570	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 E00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA32-0,55KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1986	m³/h
	0,55	m³/s
Applicable pressure difference Δp at BEP:	743	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3618	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 I00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA32-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	1986	m³/h
	0,55	m³/s
Applicable pressure difference Δp at BEP:	743	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3618	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 E00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA2-0,75KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2203	m³/h
	0,61	m³/s
Applicable pressure difference Δp at BEP:	913	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4013	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 I00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA22-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	60	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2203	m³/h
	0,61	m³/s
Applicable pressure difference Δp at BEP:	913	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4013	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2502	m³/h
	0,70	m³/s
Applicable pressure difference Δp at BEP:	1179	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4559	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2502	m³/h
	0,70	m³/s
Applicable pressure difference Δp at BEP:	1179	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4559	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2775	m³/h
	0,77	m³/s
Applicable pressure difference Δp at BEP:	1449	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	2775	m³/h
	0,77	m³/s
Applicable pressure difference Δp at BEP:	1449	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5055	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G250 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,166	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,166	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,137	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,089	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,137	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G250 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G250 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RLO G1-2225 (G-ETA 250)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,089	kW
Volume flow rate qV at BEP:	2964	m³/h
	0,82	m³/s
Applicable pressure difference Δp at BEP:	1650	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	5400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 E00370-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E00370-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CB32-0,37KW-1500
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,479	kW
Volume flow rate qV at BEP:	1930	m³/h
	0,54	m³/s
Applicable pressure difference Δp at BEP:	521	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2550	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 I00370-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I00370-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CB32-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,479	kW
Volume flow rate qV at BEP:	1930	m³/h
	0,54	m³/s
Applicable pressure difference Δp at BEP:	521	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2550	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 E00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0CA32-0,55KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	2203	m³/h
	0,61	m³/s
Applicable pressure difference Δp at BEP:	679	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2910	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 I00550-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I00550-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-0CA32-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	59	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,707	kW
Volume flow rate qV at BEP:	2203	m³/h
	0,61	m³/s
Applicable pressure difference Δp at BEP:	679	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2910	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 E00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA2-0,75KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2443	m³/h
	0,68	m³/s
Applicable pressure difference Δp at BEP:	835	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3227	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 I00750-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I00750-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA22-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,929	kW
Volume flow rate qV at BEP:	2443	m³/h
	0,68	m³/s
Applicable pressure difference Δp at BEP:	835	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3227	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2775	m³/h
	0,77	m³/s
Applicable pressure difference Δp at BEP:	1078	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3667	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	2775	m³/h
	0,77	m³/s
Applicable pressure difference Δp at BEP:	1078	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3667	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3077	m³/h
	0,85	m³/s
Applicable pressure difference Δp at BEP:	1325	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4066	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3077	m³/h
	0,85	m³/s
Applicable pressure difference Δp at BEP:	1325	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4066	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	3497	m³/h
	0,97	m³/s
Applicable pressure difference Δp at BEP:	1711	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	3497	m³/h
	0,97	m³/s
Applicable pressure difference Δp at BEP:	1711	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4620	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,780	kW
Volume flow rate qV at BEP:	3618	m³/h
	1,01	m³/s
Applicable pressure difference Δp at BEP:	1831	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4780	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,717	kW
Volume flow rate qV at BEP:	3618	m³/h
	1,01	m³/s
Applicable pressure difference Δp at BEP:	1831	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4780	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G280 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,780	kW
Volume flow rate qV at BEP:	3618	m³/h
	1,01	m³/s
Applicable pressure difference Δp at BEP:	1831	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4780	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G280 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G280 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RLO E1-2528 (G-ETA 280)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,717	kW
Volume flow rate qV at BEP:	3618	m³/h
	1,01	m³/s
Applicable pressure difference Δp at BEP:	1831	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4780	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2567	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	583	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2404	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2567	m³/h
	0,71	m³/s
Applicable pressure difference Δp at BEP:	583	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2404	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	2846	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	716	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2666	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	2846	m³/h
	0,79	m³/s
Applicable pressure difference Δp at BEP:	716	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2666	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 E01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DA3-1,1KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	3234	m³/h
	0,90	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3029	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I01100-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I01100-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DA32-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,330	kW
Volume flow rate qV at BEP:	3234	m³/h
	0,90	m³/s
Applicable pressure difference Δp at BEP:	925	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3029	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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G315 E01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA0-1,5KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3586	m³/h
	1,00	m³/s
Applicable pressure difference Δp at BEP:	1137	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3359	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I01500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I01500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA02-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,781	kW
Volume flow rate qV at BEP:	3586	m³/h
	1,00	m³/s
Applicable pressure difference Δp at BEP:	1137	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3359	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4074	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3816	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4074	m³/h
	1,13	m³/s
Applicable pressure difference Δp at BEP:	1468	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3816	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,346	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,270	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,346	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,270	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,308	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G315 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,238	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,308	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G315 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G315 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RLO E1-2831 (G-ETA 315)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,238	kW
Volume flow rate qV at BEP:	4484	m³/h
	1,25	m³/s
Applicable pressure difference Δp at BEP:	1778	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	4200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 E00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB22-0,55KW-1500
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2999	m³/h
	0,83	m³/s
Applicable pressure difference Δp at BEP:	499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 I00550-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I00550-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB22-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,681	kW
Volume flow rate qV at BEP:	2999	m³/h
	0,83	m³/s
Applicable pressure difference Δp at BEP:	499	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1979	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3326	m³/h
	0,92	m³/s
Applicable pressure difference Δp at BEP:	613	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2195	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3326	m³/h
	0,92	m³/s
Applicable pressure difference Δp at BEP:	613	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2195	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3778	m³/h
	1,05	m³/s
Applicable pressure difference Δp at BEP:	792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2493	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	3778	m³/h
	1,05	m³/s
Applicable pressure difference Δp at BEP:	792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2493	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4190	m³/h
	1,16	m³/s
Applicable pressure difference Δp at BEP:	973	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4190	m³/h
	1,16	m³/s
Applicable pressure difference Δp at BEP:	973	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2765	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 E02200-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EA4-2,2KW-3000
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4761	m³/h
	1,32	m³/s
Applicable pressure difference Δp at BEP:	1257	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3141	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I02200-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EA42-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,561	kW
Volume flow rate qV at BEP:	4761	m³/h
	1,32	m³/s
Applicable pressure difference Δp at BEP:	1257	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3141	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	5279	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	1545	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	5279	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	1545	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	5279	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	1545	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	5279	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	1545	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3484	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,427	kW
Volume flow rate qV at BEP:	5774	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	1848	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3810	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,333	kW
Volume flow rate qV at BEP:	5774	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	1848	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3810	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G355 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,427	kW
Volume flow rate qV at BEP:	5774	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	1848	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3810	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G355 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G355 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RLO E1-3135 (G-ETA 355)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,333	kW
Volume flow rate qV at BEP:	5774	m³/h
	1,60	m³/s
Applicable pressure difference Δp at BEP:	1848	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3810	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3861	m³/h
	1,07	m³/s
Applicable pressure difference Δp at BEP:	528	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1821	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	3861	m³/h
	1,07	m³/s
Applicable pressure difference Δp at BEP:	528	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1821	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4387	m³/h
	1,22	m³/s
Applicable pressure difference Δp at BEP:	682	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	4387	m³/h
	1,22	m³/s
Applicable pressure difference Δp at BEP:	682	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2069	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4864	m³/h
	1,35	m³/s
Applicable pressure difference Δp at BEP:	838	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2294	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	4864	m³/h
	1,35	m³/s
Applicable pressure difference Δp at BEP:	838	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2294	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5527	m³/h
	1,54	m³/s
Applicable pressure difference Δp at BEP:	1082	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2607	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5527	m³/h
	1,54	m³/s
Applicable pressure difference Δp at BEP:	1082	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2607	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	5527	m³/h
	1,54	m³/s
Applicable pressure difference Δp at BEP:	1082	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2607	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	5527	m³/h
	1,54	m³/s
Applicable pressure difference Δp at BEP:	1082	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2607	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AA4-3,0KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AA4-3.0KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I03000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I03000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AA42-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,444	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I03000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I03000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AA42-2AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,367	kW
Volume flow rate qV at BEP:	6129	m³/h
	1,70	m³/s
Applicable pressure difference Δp at BEP:	1331	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2891	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BA2-4,0KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	6746	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	1612	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3182	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BA2-4.0KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	6746	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	1612	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3182	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I04000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I04000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BA23-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,540	kW
Volume flow rate qV at BEP:	6746	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	1612	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3182	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I04000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I04000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BA23-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,444	kW
Volume flow rate qV at BEP:	6746	m³/h
	1,87	m³/s
Applicable pressure difference Δp at BEP:	1612	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3182	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA0-5,5KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,438	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 E05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA0-5.5KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,337	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G400 I05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA03-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,438	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA03-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,337	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,384	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,290	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,384	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G400 I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G400 I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RLO E1-3540 (G-ETA 400)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,290	kW
Volume flow rate qV at BEP:	7209	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1841	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3400	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0DB3-0,75KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4546	m³/h
	1,26	m³/s
Applicable pressure difference Δp at BEP:	456	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1523	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I00750-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I00750-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0DB32-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,909	kW
Volume flow rate qV at BEP:	4546	m³/h
	1,26	m³/s
Applicable pressure difference Δp at BEP:	456	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1523	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5165	m³/h
	1,43	m³/s
Applicable pressure difference Δp at BEP:	589	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1731	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	5165	m³/h
	1,43	m³/s
Applicable pressure difference Δp at BEP:	589	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1731	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5728	m³/h
	1,59	m³/s
Applicable pressure difference Δp at BEP:	724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1919	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	5728	m³/h
	1,59	m³/s
Applicable pressure difference Δp at BEP:	724	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1919	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6507	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	935	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2181	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6507	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	935	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2181	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	6507	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	935	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2181	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	6507	m³/h
	1,81	m³/s
Applicable pressure difference Δp at BEP:	935	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2181	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7216	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1150	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2418	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7216	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1150	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2418	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	7216	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1150	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2418	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	7216	m³/h
	2,00	m³/s
Applicable pressure difference Δp at BEP:	1150	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2418	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	7943	m³/h
	2,21	m³/s
Applicable pressure difference Δp at BEP:	1393	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	7943	m³/h
	2,21	m³/s
Applicable pressure difference Δp at BEP:	1393	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	7943	m³/h
	2,21	m³/s
Applicable pressure difference Δp at BEP:	1393	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	7943	m³/h
	2,21	m³/s
Applicable pressure difference Δp at BEP:	1393	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA0-5,5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,166	kW
Volume flow rate qV at BEP:	8832	m³/h
	2,45	m³/s
Applicable pressure difference Δp at BEP:	1722	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA0-5.5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,051	kW
Volume flow rate qV at BEP:	8832	m³/h
	2,45	m³/s
Applicable pressure difference Δp at BEP:	1722	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I05500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I05500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA03-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,166	kW
Volume flow rate qV at BEP:	8832	m³/h
	2,45	m³/s
Applicable pressure difference Δp at BEP:	1722	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I05500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I05500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA03-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,051	kW
Volume flow rate qV at BEP:	8832	m³/h
	2,45	m³/s
Applicable pressure difference Δp at BEP:	1722	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CA1-7,5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,535	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CA1-7.5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,421	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I07500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I07500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CA13-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,535	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I07500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I07500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CA13-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,421	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA2-11,0KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,456	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA2-11.0KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,359	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I11000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I11000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA23-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,456	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I11000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I11000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA23-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,359	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA3-15,0KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,407	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 E15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA3-15.0KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,311	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I15000-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I15000-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA33-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,407	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I15000-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I15000-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA33-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,311	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DA4-18,5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,372	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 E18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 E18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DA4-18.5KW-3000
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,284	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G450 I18500-IE3-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I18500-IE3-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DA43-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,372	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G450 I18500-IE4-2AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G450 I18500-IE4-2AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DA43-4AB4-Z
Fan model:	RLO E1-4045 (G-ETA 450)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,284	kW
Volume flow rate qV at BEP:	9042	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	1805	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	3030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	5293	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	392	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1259	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I00750-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I00750-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AD42-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,000	kW
Volume flow rate qV at BEP:	5293	m³/h
	1,47	m³/s
Applicable pressure difference Δp at BEP:	392	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1259	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6014	m³/h
	1,67	m³/s
Applicable pressure difference Δp at BEP:	506	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1431	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB0-1,1KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	6014	m³/h
	1,67	m³/s
Applicable pressure difference Δp at BEP:	506	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1431	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6014	m³/h
	1,67	m³/s
Applicable pressure difference Δp at BEP:	506	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1431	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I01100-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I01100-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB02-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,308	kW
Volume flow rate qV at BEP:	6014	m³/h
	1,67	m³/s
Applicable pressure difference Δp at BEP:	506	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1431	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EB4-1,5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	6669	m³/h
	1,85	m³/s
Applicable pressure difference Δp at BEP:	622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1587	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I01500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I01500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EB42-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,758	kW
Volume flow rate qV at BEP:	6669	m³/h
	1,85	m³/s
Applicable pressure difference Δp at BEP:	622	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1587	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	7577	m³/h
	2,10	m³/s
Applicable pressure difference Δp at BEP:	803	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1803	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	7577	m³/h
	2,10	m³/s
Applicable pressure difference Δp at BEP:	803	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1803	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	7577	m³/h
	2,10	m³/s
Applicable pressure difference Δp at BEP:	803	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1803	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	7577	m³/h
	2,10	m³/s
Applicable pressure difference Δp at BEP:	803	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1803	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8402	m³/h
	2,33	m³/s
Applicable pressure difference Δp at BEP:	987	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1999	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8402	m³/h
	2,33	m³/s
Applicable pressure difference Δp at BEP:	987	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1999	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	8402	m³/h
	2,33	m³/s
Applicable pressure difference Δp at BEP:	987	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1999	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	8402	m³/h
	2,33	m³/s
Applicable pressure difference Δp at BEP:	987	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1999	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	9248	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	1196	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	9248	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	1196	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	9248	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	1196	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	9248	m³/h
	2,57	m³/s
Applicable pressure difference Δp at BEP:	1196	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2201	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	10283	m³/h
	2,86	m³/s
Applicable pressure difference Δp at BEP:	1479	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2447	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	10283	m³/h
	2,86	m³/s
Applicable pressure difference Δp at BEP:	1479	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2447	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	10283	m³/h
	2,86	m³/s
Applicable pressure difference Δp at BEP:	1479	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2447	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	10283	m³/h
	2,86	m³/s
Applicable pressure difference Δp at BEP:	1479	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2447	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,885	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,698	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G500 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,885	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,698	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,799	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,640	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,799	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,640	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,739	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,591	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,739	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,591	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,698	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G500 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,567	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,698	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G500 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G500 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RLO E1-4550 (G-ETA 500)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	7,567	kW
Volume flow rate qV at BEP:	11221	m³/h
	3,12	m³/s
Applicable pressure difference Δp at BEP:	1761	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E00750-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E00750-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC0-0,75KW-1000
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	61	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	0,951	kW
Volume flow rate qV at BEP:	6139	m³/h
	1,71	m³/s
Applicable pressure difference Δp at BEP:	338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1046	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I00750-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I00750-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AD42-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	58	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,000	kW
Volume flow rate qV at BEP:	6139	m³/h
	1,71	m³/s
Applicable pressure difference Δp at BEP:	338	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1046	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-0EC4-1,1KW-1000
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6975	m³/h
	1,94	m³/s
Applicable pressure difference Δp at BEP:	436	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1189	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I01100-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I01100-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-0EC42-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	62	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,358	kW
Volume flow rate qV at BEP:	6975	m³/h
	1,94	m³/s
Applicable pressure difference Δp at BEP:	436	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1189	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7735	m³/h
	2,15	m³/s
Applicable pressure difference Δp at BEP:	536	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1318	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	7735	m³/h
	2,15	m³/s
Applicable pressure difference Δp at BEP:	536	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1318	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G560 E02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB4-2,2KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	8788	m³/h
	2,44	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1498	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB4-2.2KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	8788	m³/h
	2,44	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1498	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G560 I02200-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I02200-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB42-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,537	kW
Volume flow rate qV at BEP:	8788	m³/h
	2,44	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1498	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I02200-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I02200-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB42-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	75,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,458	kW
Volume flow rate qV at BEP:	8788	m³/h
	2,44	m³/s
Applicable pressure difference Δp at BEP:	692	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1498	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AB5-3,0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9745	m³/h
	2,71	m³/s
Applicable pressure difference Δp at BEP:	851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1AB5-3.0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9745	m³/h
	2,71	m³/s
Applicable pressure difference Δp at BEP:	851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 I03000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I03000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AB52-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,421	kW
Volume flow rate qV at BEP:	9745	m³/h
	2,71	m³/s
Applicable pressure difference Δp at BEP:	851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 I03000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I03000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1AB52-2AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	74,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,319	kW
Volume flow rate qV at BEP:	9745	m³/h
	2,71	m³/s
Applicable pressure difference Δp at BEP:	851	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1661	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10726	m³/h
	2,98	m³/s
Applicable pressure difference Δp at BEP:	1031	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1828	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10726	m³/h
	2,98	m³/s
Applicable pressure difference Δp at BEP:	1031	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1828	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	10726	m³/h
	2,98	m³/s
Applicable pressure difference Δp at BEP:	1031	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1828	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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G560 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	10726	m³/h
	2,98	m³/s
Applicable pressure difference Δp at BEP:	1031	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1828	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	11927	m³/h
	3,31	m³/s
Applicable pressure difference Δp at BEP:	1275	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	11927	m³/h
	3,31	m³/s
Applicable pressure difference Δp at BEP:	1275	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	11927	m³/h
	3,31	m³/s
Applicable pressure difference Δp at BEP:	1275	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	11927	m³/h
	3,31	m³/s
Applicable pressure difference Δp at BEP:	1275	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2033	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13226	m³/h
	3,67	m³/s
Applicable pressure difference Δp at BEP:	1568	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2254	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13226	m³/h
	3,67	m³/s
Applicable pressure difference Δp at BEP:	1568	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2254	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	13226	m³/h
	3,67	m³/s
Applicable pressure difference Δp at BEP:	1568	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2254	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	13226	m³/h
	3,67	m³/s
Applicable pressure difference Δp at BEP:	1568	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2254	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,001	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,797	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	10,001	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,797	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,925	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E15000-IE4-4AS-S

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Model identifier:	G560 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,735	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,925	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,735	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G560 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,871	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,704	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,871	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G560 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G560 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RLO E1-5056 (G-ETA 560)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	9,704	kW
Volume flow rate qV at BEP:	14140	m³/h
	3,93	m³/s
Applicable pressure difference Δp at BEP:	1792	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1AC4-1,5KW-1000
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	9027	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	459	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1087	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I01500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I01500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1AC42-2AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	1,818	kW
Volume flow rate qV at BEP:	9027	m³/h
	2,51	m³/s
Applicable pressure difference Δp at BEP:	459	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1087	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	10256	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	593	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1235	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	10256	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	593	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1235	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	10256	m³/h
	2,85	m³/s
Applicable pressure difference Δp at BEP:	593	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1235	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	11373	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	729	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1369	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	11373	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	729	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1369	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	11373	m³/h
	3,16	m³/s
Applicable pressure difference Δp at BEP:	729	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1369	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 E04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BB2-4,0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	12517	m³/h
	3,48	m³/s
Applicable pressure difference Δp at BEP:	884	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1507	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1BB2-4.0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	12517	m³/h
	3,48	m³/s
Applicable pressure difference Δp at BEP:	884	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1507	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I04000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I04000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,515	kW
Volume flow rate qV at BEP:	12517	m³/h
	3,48	m³/s
Applicable pressure difference Δp at BEP:	884	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1507	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I04000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I04000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1004-1BB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,391	kW
Volume flow rate qV at BEP:	12517	m³/h
	3,48	m³/s
Applicable pressure difference Δp at BEP:	884	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1507	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 E05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB0-5,5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	13919	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1093	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1676	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB0-5.5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	13919	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1093	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1676	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I05500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I05500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB03-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,138	kW
Volume flow rate qV at BEP:	13919	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1093	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1676	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G630 I05500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I05500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB03-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	5,985	kW
Volume flow rate qV at BEP:	13919	m³/h
	3,87	m³/s
Applicable pressure difference Δp at BEP:	1093	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1676	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	15435	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1344	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1859	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	15435	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1344	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1859	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	15435	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1344	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1859	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	15435	m³/h
	4,29	m³/s
Applicable pressure difference Δp at BEP:	1344	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1859	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	17537	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1734	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	17537	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1734	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	17537	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1734	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G630 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	17537	m³/h
	4,87	m³/s
Applicable pressure difference Δp at BEP:	1734	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2112	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,575	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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G630 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,334	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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G630 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,575	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,334	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,508	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,295	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,508	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G630 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G630 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RLO E1-5663 (G-ETA 630)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,295	kW
Volume flow rate qV at BEP:	17856	m³/h
	4,96	m³/s
Applicable pressure difference Δp at BEP:	1798	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	2150	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1BC2-2,2KW-1000
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	11955	m³/h
	3,32	m³/s
Applicable pressure difference Δp at BEP:	509	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1019	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I02200-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I02200-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1BC22-2AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,610	kW
Volume flow rate qV at BEP:	11955	m³/h
	3,32	m³/s
Applicable pressure difference Δp at BEP:	509	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1019	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	11955	m³/h
	3,32	m³/s
Applicable pressure difference Δp at BEP:	509	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1019	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	13258	m³/h
	3,68	m³/s
Applicable pressure difference Δp at BEP:	626	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1131	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	13258	m³/h
	3,68	m³/s
Applicable pressure difference Δp at BEP:	626	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1131	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	13258	m³/h
	3,68	m³/s
Applicable pressure difference Δp at BEP:	626	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1131	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14592	m³/h
	4,05	m³/s
Applicable pressure difference Δp at BEP:	758	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1244	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	14592	m³/h
	4,05	m³/s
Applicable pressure difference Δp at BEP:	758	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1244	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	14592	m³/h
	4,05	m³/s
Applicable pressure difference Δp at BEP:	758	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1244	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	16226	m³/h
	4,51	m³/s
Applicable pressure difference Δp at BEP:	937	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	16226	m³/h
	4,51	m³/s
Applicable pressure difference Δp at BEP:	937	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	16226	m³/h
	4,51	m³/s
Applicable pressure difference Δp at BEP:	937	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1384	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 E07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CB2-7,5KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	17993	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1153	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 E07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1CB2-7.5KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	17993	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1153	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I07500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I07500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,296	kW
Volume flow rate qV at BEP:	17993	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1153	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I07500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I07500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,099	kW
Volume flow rate qV at BEP:	17993	m³/h
	5,00	m³/s
Applicable pressure difference Δp at BEP:	1153	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1534	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G710 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	20443	m³/h
	5,68	m³/s
Applicable pressure difference Δp at BEP:	1488	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1743	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	20443	m³/h
	5,68	m³/s
Applicable pressure difference Δp at BEP:	1488	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1743	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	20443	m³/h
	5,68	m³/s
Applicable pressure difference Δp at BEP:	1488	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1743	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	20443	m³/h
	5,68	m³/s
Applicable pressure difference Δp at BEP:	1488	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1743	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G710 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,939	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,653	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,939	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,653	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,859	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,606	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,859	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,606	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,795	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,560	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,795	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G710 I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G710 I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RLO E1-6371 (G-ETA 710)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	14,560	kW
Volume flow rate qV at BEP:	22046	m³/h
	6,12	m³/s
Applicable pressure difference Δp at BEP:	1730	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1880	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD0
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14101	m³/h
	3,92	m³/s
Applicable pressure difference Δp at BEP:	432	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	824	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I02200-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I02200-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD02-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	63	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,686	kW
Volume flow rate qV at BEP:	14101	m³/h
	3,92	m³/s
Applicable pressure difference Δp at BEP:	432	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	824	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I02200-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I02200-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD02-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	65	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	2,604	kW
Volume flow rate qV at BEP:	14101	m³/h
	3,92	m³/s
Applicable pressure difference Δp at BEP:	432	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	824	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CD2
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC0-3,0KW-1000
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I03000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I03000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CD22-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	64	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,593	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I03000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I03000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC02-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,505	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I03000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I03000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CD22-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,492	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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G800 I03000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I03000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC02-2AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	73,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	3,386	kW
Volume flow rate qV at BEP:	15637	m³/h
	4,34	m³/s
Applicable pressure difference Δp at BEP:	531	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	914	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC2-4,0KW-1000
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	17211	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	643	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1006	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I04000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I04000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,608	kW
Volume flow rate qV at BEP:	17211	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	643	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1006	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I04000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I04000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,469	kW
Volume flow rate qV at BEP:	17211	m³/h
	4,78	m³/s
Applicable pressure difference Δp at BEP:	643	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1006	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	19138	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	795	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1119	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	19138	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	795	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1119	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	19138	m³/h
	5,32	m³/s
Applicable pressure difference Δp at BEP:	795	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1119	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	21223	m³/h
	5,90	m³/s
Applicable pressure difference Δp at BEP:	978	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1241	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	21223	m³/h
	5,90	m³/s
Applicable pressure difference Δp at BEP:	978	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1241	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	21223	m³/h
	5,90	m³/s
Applicable pressure difference Δp at BEP:	978	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1241	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB2-11,0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB2-11.0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I11000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I11000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,035	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I11000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I11000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,790	kW
Volume flow rate qV at BEP:	24113	m³/h
	6,70	m³/s
Applicable pressure difference Δp at BEP:	1263	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1410	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DB4-15,0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	26739	m³/h
	7,43	m³/s
Applicable pressure difference Δp at BEP:	1553	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1563	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9004-1DB4-15.0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	26739	m³/h
	7,43	m³/s
Applicable pressure difference Δp at BEP:	1553	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1563	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I15000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I15000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DB43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,287	kW
Volume flow rate qV at BEP:	26739	m³/h
	7,43	m³/s
Applicable pressure difference Δp at BEP:	1553	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1563	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I15000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I15000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DB43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	15,974	kW
Volume flow rate qV at BEP:	26739	m³/h
	7,43	m³/s
Applicable pressure difference Δp at BEP:	1553	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1563	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB2-18,5KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,717	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB2-18.5KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,382	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I18500-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I18500-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,717	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I18500-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I18500-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB23-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,382	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EB4-22,0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,632	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-1EB4-22.0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,321	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I22000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I22000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EB43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,632	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 I22000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I22000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EB43-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,321	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G800 E30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AB5-30,0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,506	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2AB5-30.0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,239	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I30000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I30000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AB53-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,506	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I30000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I30000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AB53-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,239	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BB0-37,0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,444	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 E37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 E37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2BB0-37.0KW-1500
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,179	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I37000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I37000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BB03-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,444	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G800 I37000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G800 I37000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BB03-4AB4-Z
Fan model:	RLO E1-7180 (G-ETA 800)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,179	kW
Volume flow rate qV at BEP:	28562	m³/h
	7,93	m³/s
Applicable pressure difference Δp at BEP:	1772	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1670	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD2
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	20540	m³/h
	5,71	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	836	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	20540	m³/h
	5,71	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	836	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	20540	m³/h
	5,71	m³/s
Applicable pressure difference Δp at BEP:	542	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	836	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 E05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD3
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1CC3-5,5KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD33-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I05500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I05500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1CC33-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,250	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I05500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I05500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1CC33-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,077	kW
Volume flow rate qV at BEP:	22841	m³/h
	6,34	m³/s
Applicable pressure difference Δp at BEP:	670	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	929	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC2-7,5KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	25328	m³/h
	7,04	m³/s
Applicable pressure difference Δp at BEP:	823	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I07500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I07500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,418	kW
Volume flow rate qV at BEP:	25328	m³/h
	7,04	m³/s
Applicable pressure difference Δp at BEP:	823	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I07500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I07500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,215	kW
Volume flow rate qV at BEP:	25328	m³/h
	7,04	m³/s
Applicable pressure difference Δp at BEP:	823	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1030	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	28777	m³/h
	7,99	m³/s
Applicable pressure difference Δp at BEP:	1063	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	28777	m³/h
	7,99	m³/s
Applicable pressure difference Δp at BEP:	1063	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	28777	m³/h
	7,99	m³/s
Applicable pressure difference Δp at BEP:	1063	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	31912	m³/h
	8,86	m³/s
Applicable pressure difference Δp at BEP:	1307	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1298	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	31912	m³/h
	8,86	m³/s
Applicable pressure difference Δp at BEP:	1307	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1298	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	31912	m³/h
	8,86	m³/s
Applicable pressure difference Δp at BEP:	1307	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1298	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	34222	m³/h
	9,51	m³/s
Applicable pressure difference Δp at BEP:	1503	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1392	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	34222	m³/h
	9,51	m³/s
Applicable pressure difference Δp at BEP:	1503	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1392	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	34222	m³/h
	9,51	m³/s
Applicable pressure difference Δp at BEP:	1503	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1392	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,695	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,695	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,316	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,517	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,517	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,192	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,416	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,416	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,119	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,316	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E45000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E45000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BB2-45,0KW-1500
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,192	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 E45000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 E45000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9504-2BB2-45.0KW-1500
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	22,900	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,316	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I45000-IE3-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I45000-IE3-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BB23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,192	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G900 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,045	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G900 I45000-IE4-4AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G900 I45000-IE4-4AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BB23-4AB4-Z
Fan model:	RLO E1-8090 (G-ETA 900)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	22,900	kW
Volume flow rate qV at BEP:	36133	m³/h
	10,04	m³/s
Applicable pressure difference Δp at BEP:	1676	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1470	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD2
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	22466	m³/h
	6,24	m³/s
Applicable pressure difference Δp at BEP:	497	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	703	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I04000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I04000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	66	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,717	kW
Volume flow rate qV at BEP:	22466	m³/h
	6,24	m³/s
Applicable pressure difference Δp at BEP:	497	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	703	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I04000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I04000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	4,592	kW
Volume flow rate qV at BEP:	22466	m³/h
	6,24	m³/s
Applicable pressure difference Δp at BEP:	497	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	703	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD3
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	24982	m³/h
	6,94	m³/s
Applicable pressure difference Δp at BEP:	614	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	781	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I05500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I05500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD33-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	67	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,381	kW
Volume flow rate qV at BEP:	24982	m³/h
	6,94	m³/s
Applicable pressure difference Δp at BEP:	614	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	781	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I05500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I05500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DD33-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	6,229	kW
Volume flow rate qV at BEP:	24982	m³/h
	6,94	m³/s
Applicable pressure difference Δp at BEP:	614	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	781	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DD4
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	27703	m³/h
	7,70	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	866	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I07500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I07500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DD43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	68	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,591	kW
Volume flow rate qV at BEP:	27703	m³/h
	7,70	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	866	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I07500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I07500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1DD43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	8,399	kW
Volume flow rate qV at BEP:	27703	m³/h
	7,70	m³/s
Applicable pressure difference Δp at BEP:	755	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	866	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9003-1DC4-11,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	31475	m³/h
	8,74	m³/s
Applicable pressure difference Δp at BEP:	975	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I11000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I11000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1003-1DC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,182	kW
Volume flow rate qV at BEP:	31475	m³/h
	8,74	m³/s
Applicable pressure difference Δp at BEP:	975	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	31475	m³/h
	8,74	m³/s
Applicable pressure difference Δp at BEP:	975	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I11000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I11000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5004-1DC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	11,918	kW
Volume flow rate qV at BEP:	31475	m³/h
	8,74	m³/s
Applicable pressure difference Δp at BEP:	975	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	984	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 E15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1EC4-15,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	34904	m³/h
	9,70	m³/s
Applicable pressure difference Δp at BEP:	1199	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1092	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I15000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I15000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-1EC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,2	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	34904	m³/h
	9,70	m³/s
Applicable pressure difference Δp at BEP:	1199	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1092	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I15000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I15000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1EC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,146	kW
Volume flow rate qV at BEP:	34904	m³/h
	9,70	m³/s
Applicable pressure difference Δp at BEP:	1199	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1092	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	37431	m³/h
	10,40	m³/s
Applicable pressure difference Δp at BEP:	1378	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	37431	m³/h
	10,40	m³/s
Applicable pressure difference Δp at BEP:	1378	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	37431	m³/h
	10,40	m³/s
Applicable pressure difference Δp at BEP:	1378	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1171	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	39656	m³/h
	11,02	m³/s
Applicable pressure difference Δp at BEP:	1547	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1240	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	39656	m³/h
	11,02	m³/s
Applicable pressure difference Δp at BEP:	1547	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1240	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	39656	m³/h
	11,02	m³/s
Applicable pressure difference Δp at BEP:	1547	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1240	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,723	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,723	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,313	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,596	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,596	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,220	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1000 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,470	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,470	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1000 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1000 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RLO E1-9010 (G-ETA 1000)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	29,128	kW
Volume flow rate qV at BEP:	42690	m³/h
	11,86	m³/s
Applicable pressure difference Δp at BEP:	1793	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1335	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 E11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-1ED4
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	37276	m³/h
	10,35	m³/s
Applicable pressure difference Δp at BEP:	822	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	807	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I11000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I11000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-1ED43-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,415	kW
Volume flow rate qV at BEP:	37276	m³/h
	10,35	m³/s
Applicable pressure difference Δp at BEP:	822	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	807	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I11000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I11000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-1ED43-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	12,168	kW
Volume flow rate qV at BEP:	37276	m³/h
	10,35	m³/s
Applicable pressure difference Δp at BEP:	822	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	807	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AD5
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	41336	m³/h
	11,48	m³/s
Applicable pressure difference Δp at BEP:	1011	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	895	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I15000-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I15000-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2AD53-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	69	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	68,9	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,741	kW
Volume flow rate qV at BEP:	41336	m³/h
	11,48	m³/s
Applicable pressure difference Δp at BEP:	1011	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	895	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I15000-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I15000-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AD53-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	16,447	kW
Volume flow rate qV at BEP:	41336	m³/h
	11,48	m³/s
Applicable pressure difference Δp at BEP:	1011	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	895	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BD0
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 E18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC4-18,5KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I18500-IE3-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I18500-IE3-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1603-2BD03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	70	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	69,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,533	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
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Information on maintenance and environmental Impact:
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G1120 I18500-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I18500-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC43-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I18500-IE4-8AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I18500-IE4-8AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BD03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,3	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	20,174	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I18500-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I18500-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC43-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	19,807	kW
Volume flow rate qV at BEP:	44329	m³/h
	12,31	m³/s
Applicable pressure difference Δp at BEP:	1163	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	960	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2AC5-22,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	46965	m³/h
	13,05	m³/s
Applicable pressure difference Δp at BEP:	1305	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1017	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I22000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I22000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2AC53-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	71	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,5	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,861	kW
Volume flow rate qV at BEP:	46965	m³/h
	13,05	m³/s
Applicable pressure difference Δp at BEP:	1305	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1017	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I22000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I22000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2AC53-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	23,479	kW
Volume flow rate qV at BEP:	46965	m³/h
	13,05	m³/s
Applicable pressure difference Δp at BEP:	1305	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1017	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2BC2-30,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	52080	m³/h
	14,47	m³/s
Applicable pressure difference Δp at BEP:	1605	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1128	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I30000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I30000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2BC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	32,293	kW
Volume flow rate qV at BEP:	52080	m³/h
	14,47	m³/s
Applicable pressure difference Δp at BEP:	1605	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1128	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I30000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I30000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2BC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	31,847	kW
Volume flow rate qV at BEP:	52080	m³/h
	14,47	m³/s
Applicable pressure difference Δp at BEP:	1605	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1128	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 E37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2CC2-37,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,928	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I37000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I37000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2CC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,928	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 I37000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I37000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2CC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,434	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
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G1120 E45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC0-45,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,762	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I45000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I45000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	70,7	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,762	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I45000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I45000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,6	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,312	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-2DC2-55,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,597	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I55000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I55000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-2DC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	72	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,0	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,597	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I55000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I55000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-2DC23-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,8	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,191	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 E75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 E75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1TZ9503-3AC0-75,0KW-1000
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,393	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I75000-IE3-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I75000-IE3-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE1503-3AC03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	71,4	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,393	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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G1120 I75000-IE4-6AS-S

Technical specifications in accordance with Regulation (EU) 2024/1834, Annex II, Point 2

Model identifier:	G1120 I75000-IE4-6AS-S
Fan type:	backward curved centrifugal fan
Motor model:	1LE5504-3AC03-4AB4-Z
Fan model:	RLO E1-1011 (G-ETA 1120)

Fan efficiency η:	73	%
Measurement category:	A	
Efficiency category:	static	
Achieved efficiency grade N:	72,1	
Required efficiency grade N:	64,0	

Note:
The calculation of fan efficiency is based on the assumption that no VSD is used.

Electric input power Pe at BEP:	38,071	kW
Volume flow rate qV at BEP:	55409	m³/h
	15,39	m³/s
Applicable pressure difference Δp at BEP:	1817	Pa
Specific speed σBEP:	-	
Inherent speed at BEP:	1200	rpm
Specific ratio:	-	

Special characteristics:	none
DC voltage lower than 100 V:	no
Significant elements supplied with the fan:	Impeller, inlet cone, electric motor, support structure, variable speed drive (optional)

Instructions for disposal/recycling after decommissioning:
Instructions for disposing of the product are included in the operating and maintenance manual for HOWATHERM air handling units.

Information on maintenance and environmental Impact:
Relevant information on installation, operation, and maintenance is included in the operating and maintenance manual for HOWATHERM air handling units.

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