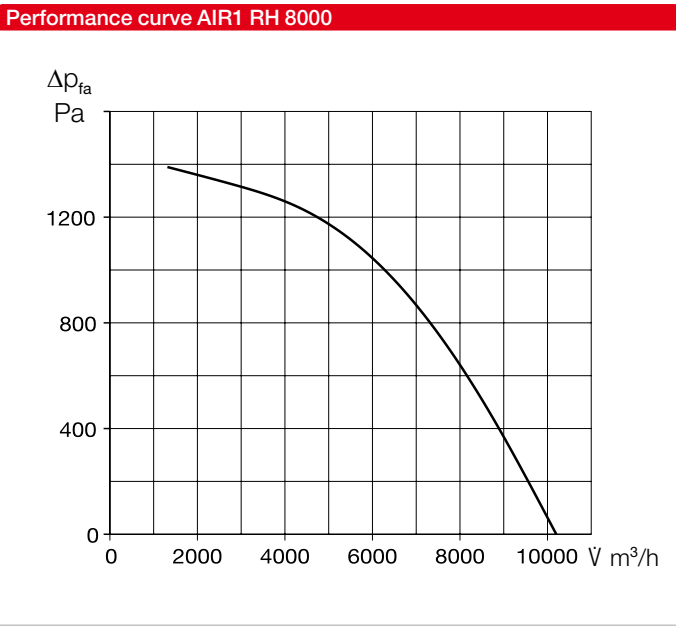




Unit types		
	AIR1 RH 8000	AIR1 RH 8000/SO
Ref. no.	04348	04357
Heat exchanger	Condensation rotor	Adsorption rotor (3)

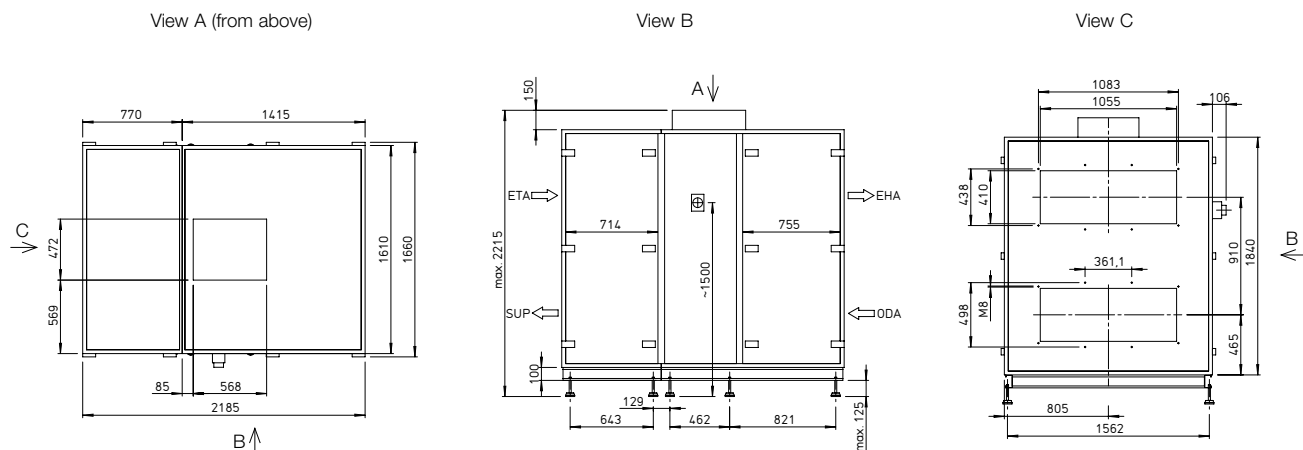
Technical data	
Mechanical data	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	1,080 m³/h
Max. air volume ERP	8,000 m³/h (1) (7,650 m³/h (4))
Max. air volume (free blowing)	10,100 m³/h
Weight, unit operational	888 kg (905 kg (4))
Delivery unit	2-part
Unit segments	2
Housing class (DIN 1886)	T2 / TB2 / D2
Filter Outside air	ISO ePM, 55% (F7) (2)
Filter Extract air	ISO ePM10 50% (M5) (2)
Media temperature (air)	-20 to +50 °C
Ambient temperature (place of installation)	-20 to +50 °C
Protection class	IP31
Electrical data	
Central building control system	BACnet, Modbus TCP/IP
Voltage / Frequency	400 V 3N ~, 50 Hz
Max. output Fans	2 x 3,600 W
Nominal current	11 / 11 / 12.4 A (11 / 11 / 14.1 A (4))
Connection (wiring diagram no.)	1322

(1) = at 400 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories
(3) = with increased humidity recovery
(4) = AIR RH 8000/SO

Sound data AIR1 RH 8000			
Sound power level L _{WA} dB(A) at 400 Pa external pressure			
	2,400 m³/h	5,800 m³/h	8,000 m³/h
Supply air (L _{WA})	78	85	91
Extract air (L _{WA})	63	67	74
Outside air (L _{WA})	67	64	71
Exhaust air (L _{WA})	77	83	90
Sound pressure level L _{PA} dB(A) of sound radiated from housing			
	2,400 m³/h	5,800 m³/h	8,000 m³/h
Housing rad. 1 m	47	51	57
Housing rad. 3 m	37	41	47
Housing rad. 5 m	33	37	43
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.			

Sound data AIR1 RH 8000/SO			
Sound power level L _{WA} dB(A) at 400 Pa external pressure			
	2,400 m³/h	5,800 m³/h	7,650 m³/h
Supply air (L _{WA})	78	85	91
Extract air (L _{WA})	64	67	74
Outside air (L _{WA})	67	64	71
Exhaust air (L _{WA})	77	84	89
Sound pressure level L _{PA} dB(A) of sound radiated from housing			
	2,400 m³/h	5,800 m³/h	7,650 m³/h
Housing rad. 1 m	47	51	57
Housing rad. 3 m	38	41	48
Housing rad. 5 m	33	37	43
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.			

Dimensions AIR1 RH 8000



Dimensions in mm

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

Accessories

Heating and cooling registers

Pre-heater

AIR1-EVH RH 8000	Electrical, external	Ref. no. 01819	Page 93
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Auxiliary heater

AIR1-ENH RH 8000	Electrical, external	Ref. no. 03626	Page 95
AIR1-NH WW RH 8000	Hot water, external	Ref. no. 03827	Page 97

Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V) M		Ref. no. 06310	Page 96
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Cooling register

AIR1-KR KW RH 8000 L ⁽¹⁾	Cold water, external	Ref. no. 03983	Page 102
AIR1-KR KW RH 8000 R ⁽¹⁾	Cold water, external	Ref. no. 04382	Page 102
AIR1-CO DX RH 8000 L ⁽¹⁾	Change-over, external	Ref. no. 40395	Page 108
AIR1-CO DX RH 8000 R ⁽¹⁾	Change-over, external	Ref. no. 40404	Page 108
AIR1-SM DX ⁽²⁾	Control module	Ref. no. 40408	Page 110

Cooling register accessories

AIR1-KS B		Ref. no. 07169	Page 114
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for use with floor-mounted units and cooling register

External installation

Cover for external installation

AIR1-AAD RH 8000	Weather protection cover for the unit	Ref. no. 06435	Page 117
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AIR1-AAD RH 8000/ULM	Weather protection cover for the unit incl. recirculation module	Ref. no. 06441	Page 117
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AIR1-AAD KR KW + DX RH 8000	Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06472	Page 118
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AIR1-AAD NH EL + WW RH 8000	Weather protection cover for aux. heater	Ref. no. 06447	Page 118
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Terminal box heater

AIR1-AAHK		Ref. no. 07064	Page 114
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Hoods

AIR1-AAHA XH 7000/RH 8000	Intake hood outside air	Ref. no. 06497	Page 115
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AIR1-AAHF XH 7000/RH 8000	Discharge hood exhaust air	Ref. no. 06841	Page 115
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Air routing

Multi-leaf damper

AIR1-JVK XH 7000/RH 8000		Ref. no. 06012	Page 111
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Recirculation module

AIR1-ULM RH 8000		Ref. no. 06184	Page 110
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Flexible connector

AIR1-VS 105/41		Ref. no. 04376	Page 113
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Potential equalisation cable

PAK M8		Ref. no. 40812	Page 113
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Controls

Controllers

AIR1-BE ECO		Ref. no. 06186	Page 119
AIR1-BE TOUCH		Ref. no. 06187	Page 119

Controller connection cable

AIR1-SL 4/10	10 m	Ref. no. 07073	Page 119
AIR1-SL 4/20	20 m	Ref. no. 07121	Page 119

Sensors

AIR1/KWL-VOC 0-10V	Mixed gas sensor	Ref. no. 20250	Page 119
AIR1/KWL-CO2 0-10V	Carbon dioxide sensor	Ref. no. 20251	Page 119
AIR1/KWL-FTF 0-10V	Humidity-temperature sensor	Ref. no. 20252	Page 119
AIR1-CO2 K	Carbon dioxide sensor duct	Ref. no. 07124	Page 119

Signal converter for sensors

AIR1-SK		Ref. no. 06019	Page 120
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Extension kit for constant pressure control

AIR1-CAP		Ref. no. 06756	Page 120
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Duct smoke detector with VdS approval

RMK		Ref. no. 04982	Page 120
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Duct smoke detector with DIBt approval

KRM		Ref. no. 40825	Page 120
KRM-MK	Mounting bracket for KRM	Ref. no. 40826	Page 120
KRM-G	Protective housing	Ref. no. 40847	Page 120
KRM-MKG	Mounting bracket for protective housing	Ref. no. 40848	Page 120

Air filters

Spare air filter and other filter classes

ELF-AIR1 RH 8000/ePM10 50%/48 (M5)		Ref. no. 02199	Page 123
ELF-AIR1 RH 8000/ePM10 50%/96 (M5)		Ref. no. 02216	Page 123
ELF-AIR1 RH 8000/ePM1 55%/96 (F7)		Ref. no. 02241	Page 123
ELF-AIR1 RH 8000/ePM1 80%/96 (F9)		Ref. no. 02460	Page 123

The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.

(1) = When looking at the cooling register from the air flow direction, the service side is on the right for the R version and on the left for the L version.

(2) = Necessary accessory in connection with an AIR1-CO DX change-over register for connecting an AIR1 ventilation unit of the XC, XH and RH series to the control of an on-site cooling system.