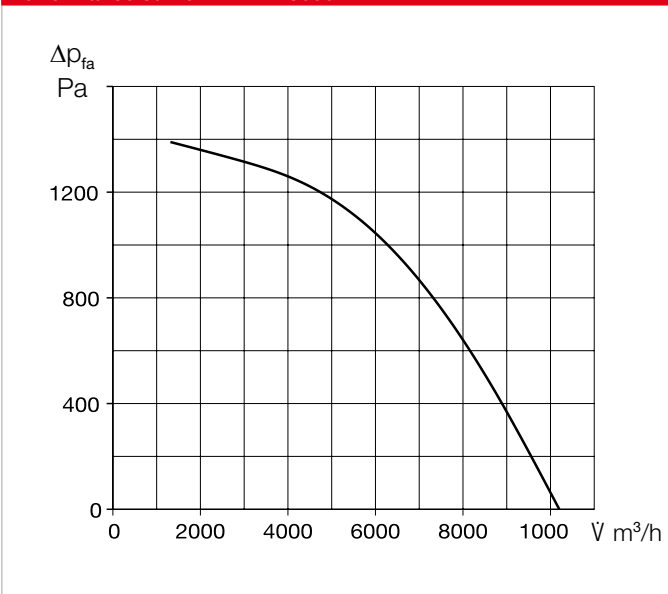


AIR1 RH 8000



Fig. shows accessories

Performance curve AIR1 RH 8000



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 m ³ /h
Max. air volume ERP	8,000 m ³ /h ⁽¹⁾ (7,650 m ³ /h ⁽⁴⁾)
Max. air volume (free blowing)	10,100 m ³ /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 ₁ , 55% (F7) ⁽²⁾
Filter Extract air	ISO ePM ₁₀ 50% (M5) ⁽²⁾
Media temperature (air)	-20 to +50 °C
Ambient temperature (operation)	-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 m ³ /h	5,800 m ³ /h	8,000 m ³ /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 m ³ /h	5,800 m ³ /h	8,000 m ³ /h
Housing rad. 1 m	47	51	57
Housing rad. 3 m	37	41	47
Housing rad. 5 m	33	37	43

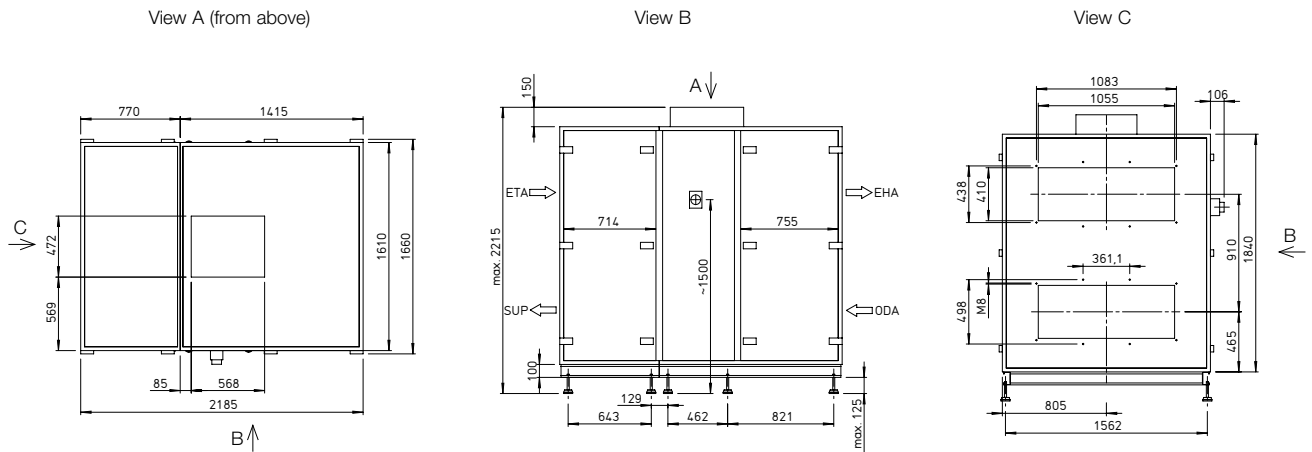
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

Sound data AIR1 RH 8000/SO

Sound power level L_{WA} dB(A) at 400 Pa external pressure			
	2,400 m ³ /h	5,800 m ³ /h	7,650 m ³ /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 m ³ /h	5,800 m ³ /h	7,650 m ³ /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 126
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Auxiliary heater

AIR1-ENH RH 8000 Electrical, external	Ref. no. 03626	Page 127
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AIR1-NH WW RH 8000 Hot water, external	Ref. no. 03827	Page 128
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Hydraulic unit for hot water heater register

WHS HE 24 V (0 – 10 V) M	Ref. no. 06310	Page 129
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Cooling register

AIR1-KR KW RH 8000 L ⁽¹⁾ Cold water, external	Ref. no. 03983	Page 130
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AIR1-KR KW RH 8000 R ⁽¹⁾ Cold water, external	Ref. no. 04382	Page 130
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AIR1-CO DX RH 8000 L ⁽¹⁾ Change-over, external	Ref. no. 40395	Page 132
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AIR1-CO DX RH 8000 R ⁽¹⁾ Change-over, external	Ref. no. 40404	Page 132
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AIR1-SM DX ⁽²⁾ Control module	Ref. no. 40408	Page 134
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■ Air routing

Multi-leaf damper

AIR1-JVK XH 7000/RH 8000	Ref. no. 06012	Page 134
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Recirculation module

AIR1-ULM RH 8000	Ref. no. 06184	Page 134
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Flexible connector

AIR1-VS 105/41	Ref. no. 04376	Page 135
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■ Air filters

Spare air filter and other filter classes

ELF-AIR1 RH 8000/ePM10 50%/48 (M5)	Ref. no. 02199	Page 143
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ELF-AIR1 RH 8000/ePM10 50%/96 (M5)	Ref. no. 02216	Page 143
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ELF-AIR1 RH 8000/ePM1 55%/96 (F7)	Ref. no. 02241	Page 143
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ELF-AIR1 RH 8000/ePM1 80%/96 (F9)	Ref. no. 02460	Page 143
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The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.

■ External installation

Cover for external installation

AIR1-AAD RH 8000 Weather protection cover for the unit	Ref. no. 06435	Page 136
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AIR1-AAD RH 8000/ULM Weather protection cover for the unit incl. recirculation module	Ref. no. 06441	Page 137
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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 138
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AIR1-AAD NH EL + WW RH 8000 Weather protection cover for aux. heater	Ref. no. 06447	Page 138
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 139
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Hoods

AIR1-AAHA XH 7000/RH 8000 Intake hood outside air	Ref. no. 06497	Page 139
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AIR1-AAHF XH 7000/RH 8000 Discharge hood exhaust air	Ref. no. 06841	Page 140
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■ Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 141
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AIR1-BE TOUCH	Ref. no. 06187	Page 141
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Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 141
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AIR1-SL 4/20 20 m	Ref. no. 07121	Page 141
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Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 141
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AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 141
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AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 141
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AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 142
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Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 142
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 142
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(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.