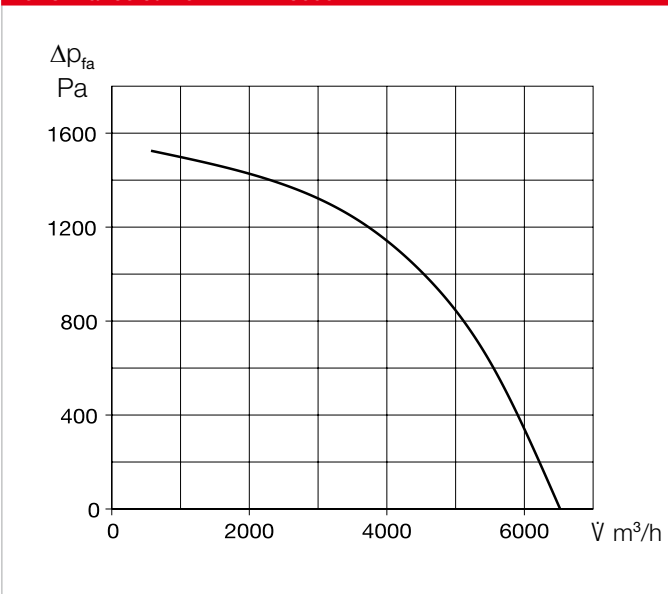


AIR1 RH 5000



Fig. shows accessories

Performance curve AIR1 RH 5000



Unit types

	AIR1 RH 5000	AIR1 RH 5000/SO
Ref. no.	04346	04355
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	665 m ³ /h
Max. air volume ERP	5,150 m ³ /h ⁽¹⁾ (4,950 m ³ /h ⁽⁴⁾)
Max. air volume (free blowing)	6,500 m ³ /h
Weight, unit operational	629 kg (645 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 (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 2,500 W
Nominal current	7.6 / 7.6 / 8.9 A (7.6 / 7.6 / 9.5 A ⁽⁴⁾)
Connection (wiring diagram no.)	1320

(1) = at 400 Pa external pressure loss ERP-compliant
 (2) = other filter classes see optional accessories
 (3) = with increased humidity recovery
 (4) = AIR RH 5000/SO

Sound data AIR1 RH 5000

Sound power level L_{WA} dB(A) at 400 Pa external pressure			
	1,500 m ³ /h	3,700 m ³ /h	5,150 m ³ /h
Supply air (L _{WA})	76	81	87
Extract air (L _{WA})	63	64	69
Outside air (L _{WA})	67	61	65
Exhaust air (L _{WA})	75	80	86
Sound pressure level L_{pA} dB(A) of sound radiated from housing			
	1,500 m ³ /h	3,700 m ³ /h	5,150 m ³ /h
Housing rad. 1 m	46	47	52
Housing rad. 3 m	36	38	42
Housing rad. 5 m	32	33	38

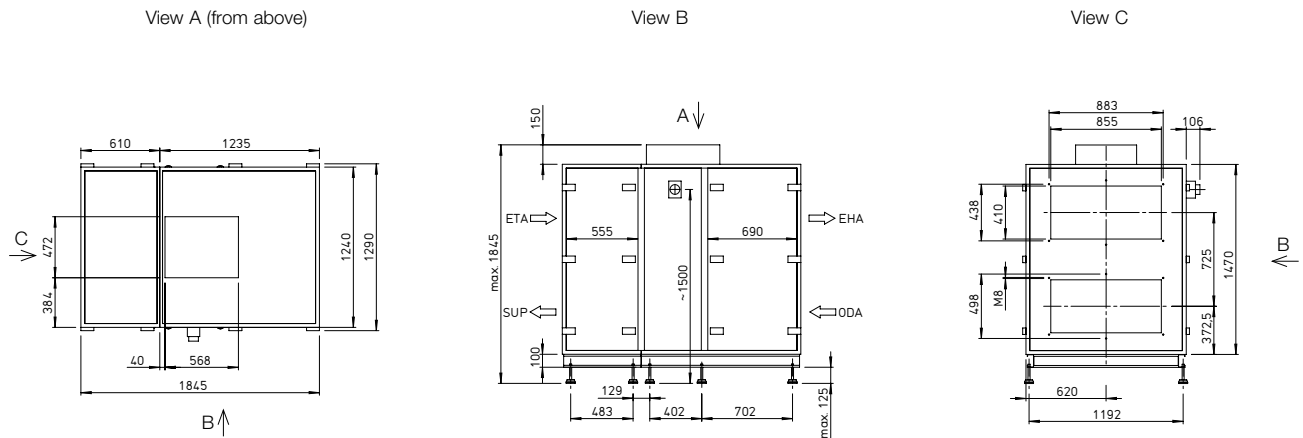
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

Sound data AIR1 RH 5000/SO

Sound power level L_{WA} dB(A) at 400 Pa external pressure			
	1,500 m ³ /h	3,700 m ³ /h	4,950 m ³ /h
Supply air (L _{WA})	77	81	86
Extract air (L _{WA})	63	65	69
Outside air (L _{WA})	67	62	65
Exhaust air (L _{WA})	75	80	85
Sound pressure level L_{pA} dB(A) of sound radiated from housing			
	1,500 m ³ /h	3,700 m ³ /h	4,950 m ³ /h
Housing rad. 1 m	46	47	52
Housing rad. 3 m	36	38	42
Housing rad. 5 m	32	33	38

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 5000



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 5000 Electrical, external	Ref. no. 01791	Page 122
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Auxiliary heater

AIR1-ENH RH 5000 Electrical, external	Ref. no. 03618	Page 123
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AIR1-NH WW RH 5000 Hot water, external	Ref. no. 03825	Page 124
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Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V) M	Ref. no. 06310	Page 125
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Cooling register

AIR1-KR KW RH 5000 L ⁽¹⁾ Cold water, external	Ref. no. 03971	Page 126
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AIR1-KR KW RH 5000 R ⁽¹⁾ Cold water, external	Ref. no. 04287	Page 126
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AIR1-CO DX RH 5000 L ⁽¹⁾ Change-over, external	Ref. no. 40393	Page 128
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AIR1-CO DX RH 5000 R ⁽¹⁾ Change-over, external	Ref. no. 40402	Page 128
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AIR1-SM DX ⁽²⁾ Control module	Ref. no. 40408	Page 130
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■ Air routing

Multi-leaf damper

AIR1-JVK XH 5500/RH 5000-6000	Ref. no. 06010	Page 130
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Recirculation module

AIR1-ULM RH 5000	Ref. no. 06040	Page 130
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Flexible connector

AIR1-VS 85/41	Ref. no. 04375	Page 131
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Adapter square-round

AIR1-ÜS XH 5500/RH 5000-6000	Ref. no. 04370	Page 131
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■ Air filters

Spare air filter and other filter classes

ELF-AIR1 RH 5000/ePM10 50%/48 (M5)	Ref. no. 02196	Page 139
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ELF-AIR1 RH 5000/ePM10 50%/96 (M5)	Ref. no. 02214	Page 139
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ELF-AIR1 RH 5000/ePM1 55%/96 (F7)	Ref. no. 02239	Page 139
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ELF-AIR1 RH 5000/ePM1 80%/96 (F9)	Ref. no. 02446	Page 139
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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 5000 Weather protection cover for the unit	Ref. no. 06433	Page 132
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AIR1-AAD RH 5000/ULM Weather protection cover for the unit incl. recirculation module	Ref. no. 06439	Page 133
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AIR1-AAD KR KW + DX RH 5000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06470	Page 134
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AIR1-AAD NH EL + WW RH 5000 Weather protection cover for aux. heater	Ref. no. 06445	Page 134
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 135
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Hoods

AIR1-AAHA XH 5500/RH 5000-6000 Intake hood outside air	Ref. no. 06496	Page 135
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AIR1-AAHF XH 5500/RH 5000-6000 Discharge hood exhaust air	Ref. no. 06648	Page 136
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■ Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 137
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AIR1-BE TOUCH	Ref. no. 06187	Page 137
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Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 137
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AIR1-SL 4/20 20 m	Ref. no. 07121	Page 137
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Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 137
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AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 137
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AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 137
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AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 138
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Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 138
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 138
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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.