

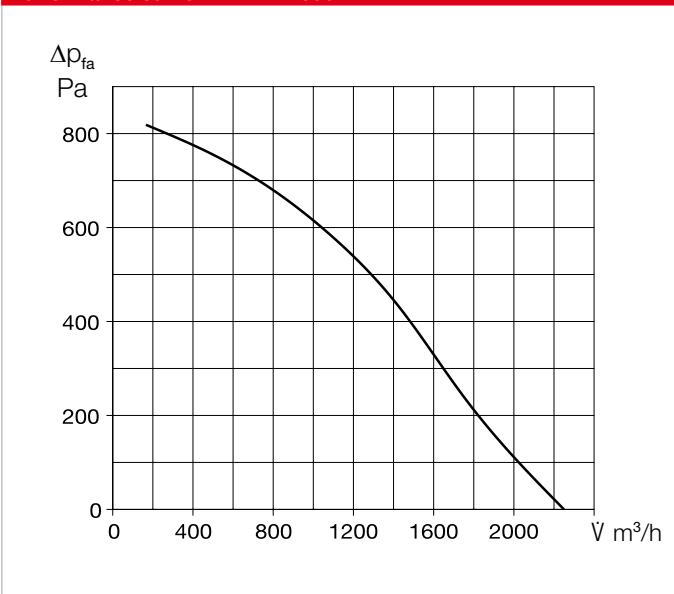
AIR1 RH 1500



Fig. shows accessories



Performance curve AIR1 RH 1500



Unit types

	AIR1 RH 1500	AIR1 RH 1500/SO
Ref. no.	04343	04352
Heat exchanger	Condensation rotor	Adsorption rotor ⁽⁴⁾

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	330 m ³ /h
Max. air volume ERP	1,600 m ³ /h ⁽¹⁾ (1,520 m ³ /h ⁽⁵⁾)
Max. air volume (free blowing)	2,250 m ³ /h
Weight, unit operational	315 kg (320 kg ⁽⁶⁾)
Delivery unit	1-part
Unit segments	1
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 500 W
Nominal current	
– Ventilation unit	2.2 / 2.2 / 1.3 A
– Electrical auxiliary heater	6.1 / 6.1 / 6.1 A ⁽³⁾
– max. total	8.3 / 8.3 / 7.4 A
Connection (wiring diagram no.)	1317

(1) = at 250 Pa external pressure loss ERP-compliant
 (2) = other filter classes see optional accessories
 (3) = Optional accessories
 (4) = with increased humidity recovery
 (5) = AIR RH 1500/SO

Sound data AIR1 RH 1500

Sound power level L_{WA} dB(A) at 250 Pa external pressure

	450 m ³ /h	1,200 m ³ /h	1,600 m ³ /h
Supply air (L _{WA})	71	74	77
Extract air (L _{WA})	59	60	62
Outside air (L _{WA})	62	57	59
Exhaust air (L _{WA})	69	72	76

Sound pressure level L_{pA} dB(A) of sound radiated from housing

	450 m ³ /h	1,200 m ³ /h	1,600 m ³ /h
Housing rad. 1 m	41	41	44
Housing rad. 3 m	31	32	34
Housing rad. 5 m	27	27	30

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 1500/SO

Sound power level L_{WA} dB(A) at 250 Pa external pressure

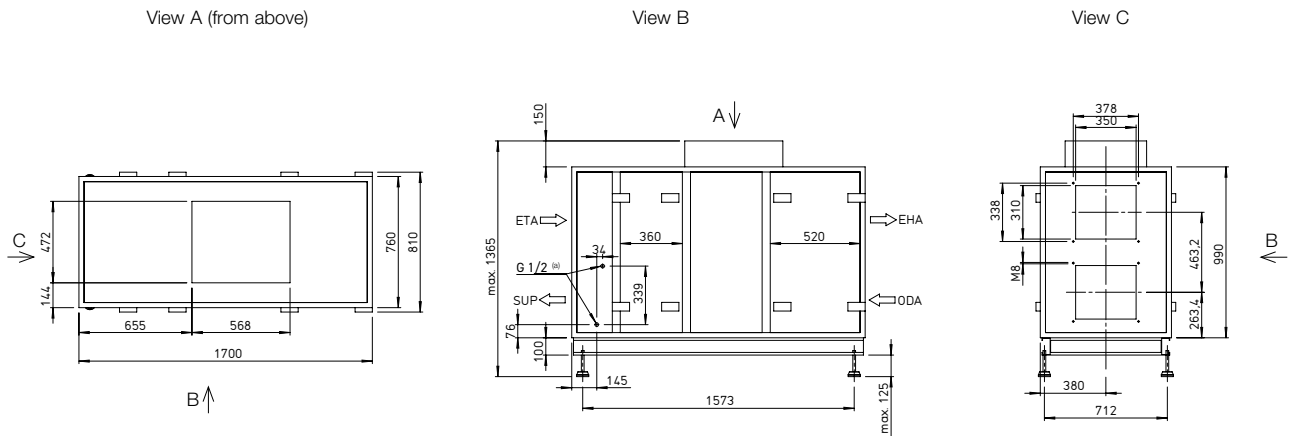
	450 m ³ /h	1,200 m ³ /h	1,520 m ³ /h
Supply air (L _{WA})	71	74	77
Extract air (L _{WA})	59	61	62
Outside air (L _{WA})	62	58	60
Exhaust air (L _{WA})	70	73	76

Sound pressure level L_{pA} dB(A) of sound radiated from housing

	450 m ³ /h	1,200 m ³ /h	1,520 m ³ /h
Housing rad. 1 m	41	42	44
Housing rad. 3 m	32	33	34
Housing rad. 5 m	27	28	30

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 1500



Dimensions in mm

(a) Internal thread

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

■ Accessories

■ Heating and cooling registers

Pre-heater

AIR1-EVH RH 1500 Electrical, external	Ref. no. 01262	Page 122
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Auxiliary heater

AIR1-ENH RH 1500 Electrical, internal	Ref. no. 03605	Page 123
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AIR1-NH WW RH 1500

Hot water, internal	Ref. no. 03805	Page 124
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Hydraulic unit for hot water heater register

WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 125
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Cooling register

AIR1-KR KW RH 1500 L ⁽¹⁾ Cold water, external	Ref. no. 03958	Page 126
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AIR1-KR KW RH 1500 R ⁽¹⁾ Cold water, external	Ref. no. 04283	Page 126
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AIR1-CO DX RH 1500 L ⁽¹⁾ Change-over, external	Ref. no. 40390	Page 128
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AIR1-CO DX RH 1500 R ⁽¹⁾ Change-over, external	Ref. no. 40399	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 1500/RH 1500	Ref. no. 06006	Page 130
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Flexible connector

AIR1-VS 35/31	Ref. no. 04372	Page 131
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Adapter square-round

AIR1-ÜS XH 1500/RH 1500	Ref. no. 04367	Page 131
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■ External installation

Cover for external installation

AIR1-AAD RH 1500 Weather protection cover for the unit	Ref. no. 06382	Page 132
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AIR1-AAD KR KW + DX RH 1500 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06467	Page 134
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 135
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Hoods

AIR1-AAHA XH 1500/RH 1500 Intake hood outside air	Ref. no. 06484	Page 135
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AIR1-AAHF XH 1500/RH 1500 Discharge hood exhaust air	Ref. no. 06643	Page 136
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■ Controls

Controllers

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

Controller connection cable

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

Sensors

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

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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■ Air filters

Spare air filter and other filter classes

ELF-AIR1 RH 1500/ePM10 50%/48 (M5)	Ref. no. 02192	Page 139
ELF-AIR1 RH 1500/ePM10 50%/96 (M5)	Ref. no. 02211	Page 139
ELF-AIR1 RH 1500/ePM1 55%/96 (F7)	Ref. no. 02236	Page 139
ELF-AIR1 RH 1500/ePM1 80%/96 (F9)	Ref. no. 02374	Page 139

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.