

AIR1 RH 2000



Fig. shows accessories



Unit types

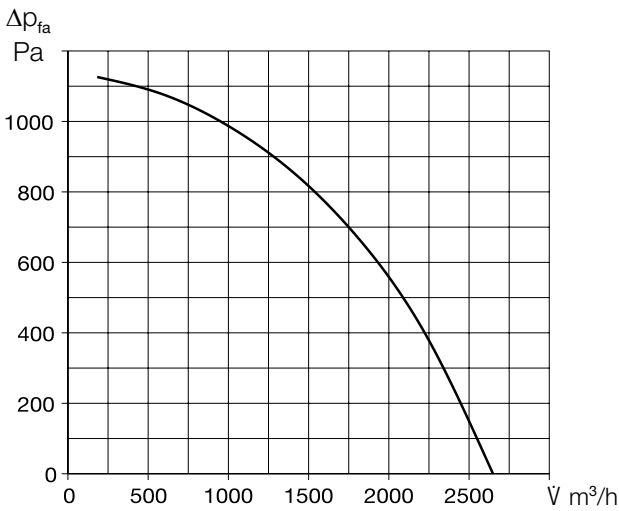
	AIR1 RH 2000	AIR1 RH 2000/SO
Ref. no.	04344	04353
Heat exchanger	Condensation rotor	Adsorption rotor (4)

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	330 m³/h
Max. air volume ERP	2,100 m³/h (1) (2,020 m³/h (5))
Max. air volume (free blowing)	2,650 m³/h
Weight, unit operational	361 kg (368 kg (5))
Delivery unit	1-part
Unit segments	1
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 +40 °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 780 W
Nominal current	
– Ventilation unit	3.4 / 3.4 / 1.3 A
– Electrical auxiliary heater	8.4 / 8.4 / 8.4 A (3)
– max. total	11.8 / 11.8 / 9.7 A
Connection (wiring diagram no.)	1318

(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 2000/SO

Performance curve AIR1 RH 2000



Sound data AIR1 RH 2000

Sound power level LWA dB(A) at 250 Pa external pressure			
	600 m³/h	1,500 m³/h	2,100 m³/h
Supply air (LWA)	70	75	81
Extract air (LWA)	57	60	65
Outside air (LWA)	61	57	62
Exhaust air (LWA)	68	74	80
Sound pressure level LpA dB(A) of sound radiated from housing			
	600 m³/h	1,500 m³/h	2,100 m³/h
Housing rad. 1 m	39	41	46
Housing rad. 3 m	30	32	37
Housing rad. 5 m	25	27	32

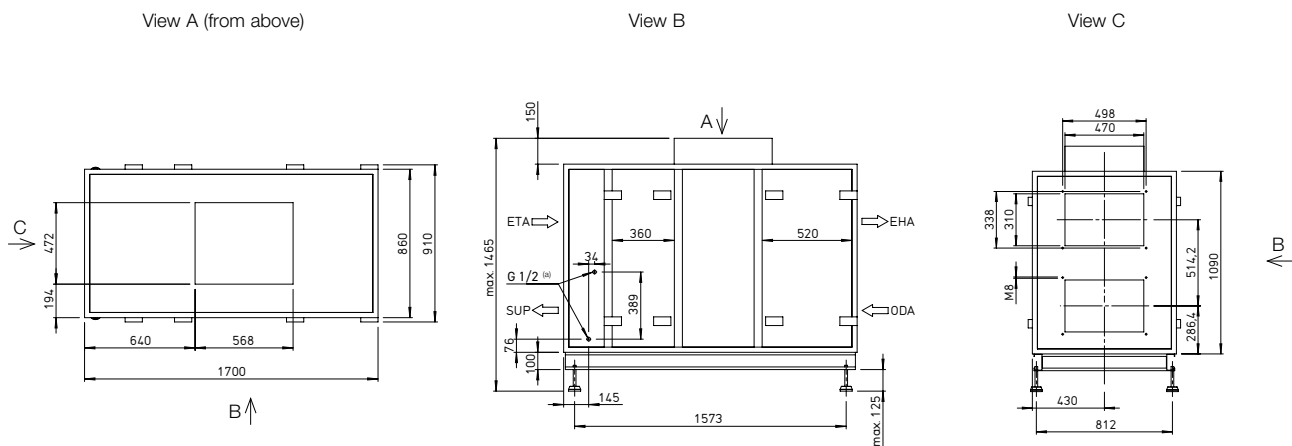
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

Sound data AIR1 RH 2000/SO

Sound power level LWA dB(A) at 250 Pa external pressure			
	600 m³/h	1,500 m³/h	2,020 m³/h
Supply air (LWA)	70	76	81
Extract air (LWA)	57	60	64
Outside air (LWA)	61	57	61
Exhaust air (LWA)	69	74	79
Sound pressure level LpA dB(A) of sound radiated from housing			
	600 m³/h	1,500 m³/h	2,020 m³/h
Housing rad. 1 m	40	42	46
Housing rad. 3 m	30	32	36
Housing rad. 5 m	26	28	32

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 2000



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 2000 Electrical, external	Ref. no. 01710	Page 93
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Auxiliary heater

AIR1-ENH RH 2000 Electrical, internal	Ref. no. 03616	Page 95
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AIR1-NH WW RH 2000 Hot water, internal	Ref. no. 03806	Page 97
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Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V)	Ref. no. 08318	Page 96
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Cooling register

AIR1-KR KW RH 2000 L ⁽¹⁾ Cold water, external	Ref. no. 03959	Page 102
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AIR1-KR KW RH 2000 R ⁽¹⁾ Cold water, external	Ref. no. 04285	Page 102
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AIR1-CO DX RH 2000 L ⁽¹⁾ Change-over, external	Ref. no. 40391	Page 108
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AIR1-CO DX RH 2000 R ⁽¹⁾ Change-over, external	Ref. no. 40400	Page 108
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AIR1-SM DX ⁽²⁾ Control module	Ref. no. 40408	Page 110
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Cooling register accessories

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

Multi-leaf damper

AIR1-JVK RH 2000	Ref. no. 06007	Page 111
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Flexible connector

AIR1-VS 47/31	Ref. no. 04373	Page 113
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Potential equalisation cable

PAK M8	Ref. no. 40812	Page 113
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Adapter square-round

AIR1-ÜS RH 2000 (DN 400)	Ref. no. 04368	Page 112
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External installation

Cover for external installation

AIR1-AAD RH 2000 Weather protection cover for the unit	Ref. no. 06431	Page 117
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AIR1-AAD KR KW + DX RH 2000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06468	Page 118
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 114
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Hoods

AIR1-AAHA RH 2000 Intake hood outside air	Ref. no. 06539	Page 115
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AIR1-AAHF RH 2000 Discharge hood exhaust air	Ref. no. 06646	Page 115
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Controls

Controllers

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

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

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 119
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AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 119
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AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 119
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AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 119
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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
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KRM-MK Mounting bracket for KRM	Ref. no. 40826	Page 120
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KRM-G Protective housing	Ref. no. 40847	Page 120
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KRM-MKG Mounting bracket for protective housing	Ref. no. 40848	Page 120
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Air filters

Spare air filter and other filter classes

ELF-AIR1 RH 2000/ePM10 50%/48 (M5)	Ref. no. 02193	Page 123
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ELF-AIR1 RH 2000/ePM10 50%/96 (M5)	Ref. no. 02212	Page 123
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ELF-AIR1 RH 2000/ePM1 55%/96 (F7)	Ref. no. 02237	Page 123
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ELF-AIR1 RH 2000/ePM1 80%/96 (F9)	Ref. no. 02384	Page 123
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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.