



Δp <sub>fa</sub> Pa						
1200	_					
800						
400						
0					000	

■ Unit types					
	AIR1 RH 12000	AIR1 RH 12000/S0			
Ref. no.	04350	04359			
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	1,690 m³/h
Max. air volume ERP	13,300 m <sup>3</sup> /h <sup>(1)</sup> (12,800 m <sup>3</sup> /h <sup>(4)</sup> )
Max. air volume (free blowing)	16,000 m <sup>3</sup> /h
Weight, unit operational	1,160 kg (1184 kg <sup>(4)</sup> )
Delivery unit	2-part
Unit segments	2
Housing class (DIN 1886)	T2 / TB2 / D2
Filter Outside air	ISO ePM <sub>1</sub> 55% (F7) (2)
Filter Extract air	ISO ePM <sub>10</sub> 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 5,000 W
Nominal current	15.2 / 15.2 / 17.2 A (15.2 / 15.2 / 18.4 A (4))
Connection (wiring diagram no.)	1324

Nominal current
Connection (wiring diagram no.)
(1) = at 400 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories

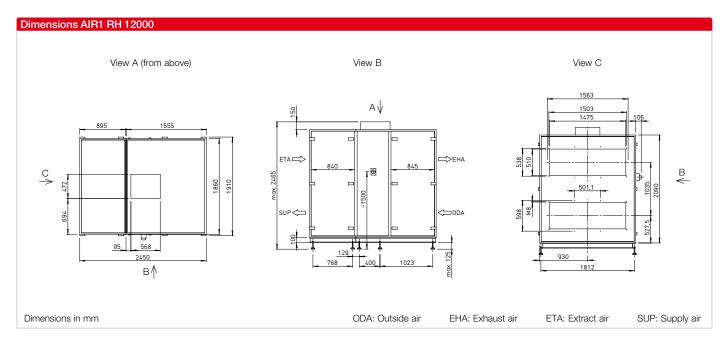
(1) = at 400 Pa external pressure loss ERP-compilant
(2) = other filter classes see optional accessories
(3) = with increased humidity recovery
(4) = AIR RH 12000/S0

Sound data AIR1 RH 12000						
Sound power level L <sub>WA</sub> dB(A) at 400 Pa external pressure						
	4,000 m <sup>3</sup> /h	9,500 m <sup>3</sup> /h	13,300 m³/h			
Supply air (L <sub>WA</sub> )	78	83	90			
Extract air (L <sub>WA</sub> )	65	70	75			
Outside air (L <sub>WA</sub> )	69	72	72			
Exhaust air (L <sub>WA</sub> )	77	82	89			
Sound pressure level L <sub>PA</sub> dB(A) of sound radiated from housing						
	4,000 m <sup>3</sup> /h	9,500 m <sup>3</sup> /h	13,300 m <sup>3</sup> /h			
Housing rad. 1 m	49	53	58			
Housing rad. 3 m	39	43	49			
Housing rad. 5 m	35	39	44			
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 1					
Sound power level L <sub>wa</sub> dB(A) at 400 Pa external pressure					
	4,000 m <sup>3</sup> /h	9,500 m <sup>3</sup> /h	12,800 m <sup>3</sup> /h		
Supply air (L <sub>WA</sub> )	79	84	89		
Extract air (L <sub>WA</sub> )	66	70	72		
Outside air (L <sub>WA</sub> )	69	73	71		
Exhaust air (L <sub>WA</sub> )	77	82	88		
Sound pressure level L <sub>PA</sub> dB(A) of sound radiated from housing					
	4,000 m <sup>3</sup> /h	9,500 m <sup>3</sup> /h	12,800 m <sup>3</sup> /h		
Housing rad. 1 m	49	53	56		
Housing rad. 3 m	39	44	46		
Housing rad. 5 m	35	39	42		
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.





External installation

AIR1-CAP

## Accessories

AIR1-EVH RH 12000 Electrical, external Auxiliary heater		
,	Dof no 01071	Do 100
\uviliary hoator	Ref. no. 01871	Page 122
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AIR1-ENH RH 12000	Ref. no. 03628	Page 123
Electrical, external	1161. 110. 03020	raye 123
AIR1-NH WW RH 12000	Ref. no. 03831	Page 124
Hot water, external	1101. 110. 00001	1 ago 12 1
Hydraulic unit for hot water heater register		
NHSH HE 24 V (0 – 10 V) L	Ref. no. 06311	Page 125
Cooling register		
AIR1-KR KW RH 12000 L (1)	Ref. no. 04183	Page 126
Cold water, external		
AIR1-KR KW RH 12000 R (1)	Ref. no. 04389	Page 126
Cold water, external		
AIR1-CO DX RH 12000 L (1)	Ref. no. 40397	Page 128
Change-over, external		
AIR1-CO DX RH 12000 R <sup>(1)</sup> Change-over, external	Ref. no. 40406	Page 128
AIR1-SM DX (2)		
Control module	Ref. no. 40408	Page 130
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Air routing		
Multi-leaf damper		
AIR1-JVK RH 12000	Ref. no. 06020	Page 130
Recirculation module		
AIR1-ULM RH 12000	Ref. no. 06170	Page 130
Flexible connector		
AIR1-VS 147/51	Ref. no. 04378	Page 131
Air filters		
Spare air filter and other filter classes		
ELF-AIR1 RH 12000/ePM10 50%/48 (M5)	Ref. no. 02201	Page 139
ELF-AIR1 RH 12000/ePM10 50%/96 (M5)	Ref. no. 02218	Page 139
ELF-AIR1 RH 12000/ePM1 55%/96 (F7)	Ref. no. 02264	Page 139
ELF-AIR1 RH 12000/ePM1 80%/96 (F9)	Ref. no. 02471	Page 139

Cover for external installation		
AIR1-AAD RH 12000  Weather protection cover for the unit	Ref. no. 06437	Page 132
AIR1-AAD RH 12000/ULM		
Weather protection cover for the unit	Ref. no. 06443	Page 133
incl. recirculation module	1101. 110. 00443	rage 155
AIR1-AAD KR KW + DX RH 12000		
Weather protection cover for cooling register cold	Ref. no. 06474	Page 134
water or direct evaporator		
AIR1-AAD NH EL + WW RH 12000	Ref no 06449	Page 134
Weather protection cover for aux. heater	Hel. Ho. 00443	1 age 134
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 135
Hoods		
AIR1-AAHA RH 12000	Ref. no. 06611	Page 135
Intake hood outside air	1101. 110. 00011	rago roo
AIR1-AAHF RH 12000	Ref. no. 06865	Page 136
Discharge hood exhaust air	1101. 110. 00000	1 ago 100
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
Extension kit for constant pressure control		

- (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-C0 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.

Ref. no. 06756 Page 138