

Unit types		
	AIR1 RH 3000	AIR1 RH 3000/S0
Ref. no.	04345	04354
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	790 m³/h
Max. air volume ERP	3,000 m ³ /h ⁽¹⁾ (2,770 m ³ /h ⁽⁵⁾)
Max. air volume (free blowing)	4,800 m³/h
Weight, unit operational	438 kg (450 kg ⁽⁵⁾)
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 1,500 W
Nominal current	
– Ventilation unit	4.6 / 4.6 / 5.8 A
- Electrical auxiliary heater	13.1 / 13.1 / 13.1 A ⁽³⁾
– max. total	17.7 / 17.7 / 18.9 A
Connection (wiring diagram no.)	1319
(1) = at 250 Pa external pressure loss ERP-compliant	

(1) = at 250 Pa external p	oressure loss	ERP-compliant
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^{(2) =} other filter classes see optional accessories

(4) = with increased humidity recovery

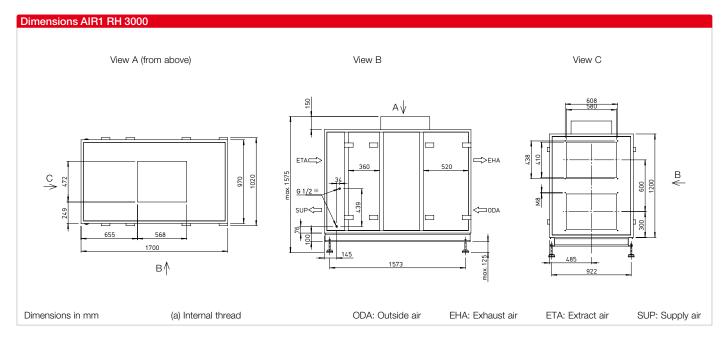
(5) = AIR RH 3000/S0

Sound data AIR1 RH 3000			
Sound power level L _{WA} dB(A)	at 250 Pa external p	ressure	
	900 m³/h	2,200 m ³ /h	3,000 m ³ /h
Supply air (L _{WA})	80	83	84
Extract air (L _{WA})	67	69	68
Outside air (L _{wA})	68	70	67
Exhaust air (L _{WA})	79	82	82
Sound pressure level L _{PA} dB(A) of sound radiated from housing			
	900 m ³ /h	2,200 m ³ /h	3,000 m³/h
Housing rad. 1 m	48	50	50
Housing rad. 3 m	39	41	40
Housing rad. 5 m	34	37	36
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 3000/S0				
Sound power level L _{WA} dB(A)	at 250 Pa external p	ressure		
	900 m ³ /h	2,200 m ³ /h	2,770 m ³ /h	
Supply air (L _{WA})	81	85	84	
Extract air (L _{WA})	67	70	68	
Outside air (L _{WA})	69	72	68	
Exhaust air (L _{WA})	79	83	82	
Sound pressure level L _{PA} dB(A) of sound radiated from housing				
	900 m ³ /h	2,200 m ³ /h	2,770 m ³ /h	
Housing rad. 1 m	49	52	50	
Housing rad. 3 m	39	42	41	
Housing rad. 5 m	35	38	36	
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.				

^{(3) =} Optional accessories





Accessories

Heating and cooling registers		
Pre-heater		
AIR1-EVH RH 3000 Electrical, external	Ref. no. 01711	Page 122
Auxiliary heater		
AIR1-ENH RH 3000 Electrical, internal	Ref. no. 03617	Page 123
AIR1-NH WW RH 3000 Hot water, internal	Ref. no. 03824	Page 124
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 125
Cooling register		
AIR1-KR KW RH 3000 L ⁽¹⁾ Cold water, external	Ref. no. 03967	Page 126
AIR1-KR KW RH 3000 R ⁽¹⁾ Cold water, external	Ref. no. 04286	Page 126
AIR1-CO DX RH 3000 L (1) Change-over, external	Ref. no. 40392	Page 128
AIR1-CO DX RH 3000 R ⁽¹⁾ Change-over, external	Ref. no. 40401	Page 128
AIR1-SM DX (2) Control module	Ref. no. 40408	Page 130
■ Air routing		
Multi-leaf damper		
AIR1-JVK XH 3500-4500/RH 3000	Ref. no. 06009	Page 130
Flexible connector		
AIR1-VS 58/41	Ref. no. 04374	Page 131
Adapter square-round		
AIR1-ÜS XH 3500-4500/RH 3000	Ref no 04369	Page 131

 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.

External installation		
Cover for external installation		
AIR1-AAD RH 3000 Weather protection cover for the unit	Ref. no. 06432	Page 132
AIR1-AAD KR KW + DX RH 3000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06469	Page 134
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 135
Hoods		
AIR1-AAHA XH 3500-4500/RH 3000 Intake hood outside air	Ref. no. 06487	Page 135
AIR1-AAHF XH 3500-4500/RH 3000 Discharge hood exhaust air	Ref. no. 06647	Page 136

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		
AIR1-CAP	Ref. no. 06756	Page 138

■ Air filters		
Spare air filter and other filter classes		
ELF-AIR1 RH 3000/ePM10 50%/48 (M5)	Ref. no. 02194	Page 139
ELF-AIR1 RH 3000/ePM10 50%/96 (M5)	Ref. no. 02213	Page 139
ELF-AIR1 RH 3000/ePM1 55%/96 (F7)	Ref. no. 02238	Page 139
ELF-AIR1 RH 3000/ePM1 80%/96 (F9)	Ref. no. 02425	Page 139
The use of original spare air filters is mandatory to guarantee the specified technical data and air		

volumes.