

Unit types		
	AIR1 RH 8000	AIR1 RH 8000/S0
Ref. no.	04348	04357
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	1,080 m³/h
Max. air volume ERP	8,000 m <sup>3</sup> /h <sup>(1)</sup> (7,650 m <sup>3</sup> /h <sup>(4)</sup> )
Max. air volume (free blowing)	10,100 m³/h
Weight, unit operational	888 kg (905 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 +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 3,600 W
Nominal current	11 / 11 / 12.4 A (11 / 11 / 14.1 A <sup>(4)</sup> )
Connection (wiring diagram no.)	1322

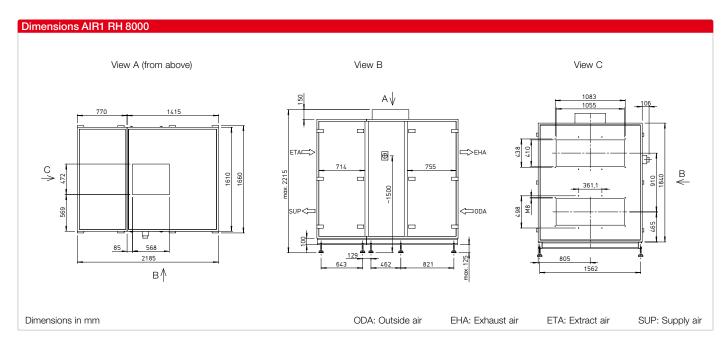
- (1) = at 400 Pa external pressure loss ERP-compliant
- (2) = other filter classes see optional accessories
- (3) = with increased humidity recovery
- (4) = AIR RH 8000/S0

Sound data AIR1 RH 8000			
Sound power level L <sub>wa</sub> dB(A) at 400 Pa external pressure			
	2,400 m <sup>3</sup> /h	5,800 m <sup>3</sup> /h	8,000 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	78	85	91
Extract air (L <sub>WA</sub> )	63	67	74
Outside air (L <sub>WA</sub> )	67	64	71
Exhaust air (L <sub>WA</sub> )	77	83	90
Sound pressure level L <sub>PA</sub> dB(A) of sound radiated from housing			
	2,400 m <sup>3</sup> /h	5,800 m <sup>3</sup> /h	8,000 m <sup>3</sup> /h
Housing rad. 1 m	47	51	57
Housing rad. 3 m	37	41	47
Housing rad. 5 m	33	37	43
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 8000	/\$0		
Sound power level L <sub>WA</sub> dB(A) at 400 Pa external pressure			
	2,400 m <sup>3</sup> /h	5,800 m <sup>3</sup> /h	7,650 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	78	85	91
Extract air (LwA)	64	67	74
Outside air (L <sub>wA</sub> )	67	64	71
Exhaust air (L <sub>WA</sub> )	77	84	89
Sound pressure level L <sub>PA</sub> dB(A) of sound radiated from housing			
	2,400 m <sup>3</sup> /h	5,800 m <sup>3</sup> /h	7,650 m³/h
Housing rad. 1 m	47	51	57
Housing rad. 3 m	38	41	48
Housing rad. 5 m	33	37	43
The sound power at the connectors is calculated for the simultaneous operation of both fans. The			

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**External installation** 

AIR1-CAP

## Accessories

Pre-heater		
AIR1-EVH RH 8000	Ref. no. 01819	Dogo 100
Electrical, external	Nel. 110. 01019	Page 122
Auxiliary heater		
AIR1-ENH RH 8000	Ref. no. 03626	Page 123
Electrical, external	1101. 110. 00020	1 ugo 120
AIR1-NH WW RH 8000	Ref. no. 03827	Page 124
Hot water, external		
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V) M	Ref. no. 06310	Page 125
Cooling register		
AIR1-KR KW RH 8000 L <sup>(1)</sup> Cold water, external	Ref. no. 03983	Page 126
AIR1-KR KW RH 8000 R (1)		
Cold water, external	Ref. no. 04382	Page 126
AIR1-CO DX RH 8000 L (1)		
Change-over, external	Ref. no. 40395	Page 128
AIR1-CO DX RH 8000 R (1)		
Change-over, external	Ref. no. 40404	Page 128
AIR1-SM DX (2)	D-f 40400	D 100
Control module	Ref. no. 40408	Page 130
Air routing		
Multi-leaf damper		
AIR1-JVK XH 7000/RH 8000	Ref. no. 06012	Page 130
Recirculation module		
AIR1-ULM RH 8000	Ref. no. 06184	Page 130
Flexible connector		
AIR1-VS 105/41	Ref. no. 04376	Page 131
Air filters		
Spare air filter and other filter classes		
ELF-AIR1 RH 8000/ePM10 50%/48 (M5)	Ref. no. 02199	Page 139
ELF-AIR1 RH 8000/ePM10 50%/96 (M5)	Ref. no. 02216	Page 139
ELF-AIR1 RH 8000/ePM1 55%/96 (F7)	Ref. no. 02241	Page 139
ELF-AIR1 RH 8000/ePM1 80%/96 (F9)	Ref. no. 02460	Page 139

Cover for external installation		
AIR1-AAD RH 8000	Ref. no. 06435	Page 132
Weather protection cover for the unit	Nel. 110. 00455	raye 132
AIR1-AAD RH 8000/ULM		
Weather protection cover for the unit	Ref. no. 06441	Page 133
incl. recirculation module		
AIR1-AAD KR KW + DX RH 8000		
Weather protection cover for cooling register cold	Ref. no. 06472	Page 134
water or direct evaporator		
AIR1-AAD NH EL + WW RH 8000	Ref no 06447	Page 134
Weather protection cover for aux. heater	1101. 110. 00447	rage 154
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 135
Hoods		
AIR1-AAHA XH 7000/RH 8000	Ref. no. 06497	Page 135
Intake hood outside air	1101. 110. 00401	rage 100
AIR1-AAHF XH 7000/RH 8000	Ref. no. 06841	Page 136
Discharge hood exhaust air	1101. 110. 00041	rage 100
Controls		
Controllers		
AIR1-BE ECO	Ref. no. 06186	Page 137
AIR1-BE TOUCH	Ref. no. 06187	Page 137
Controller connection cable		
<b>AIR1-SL 4/10</b> 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