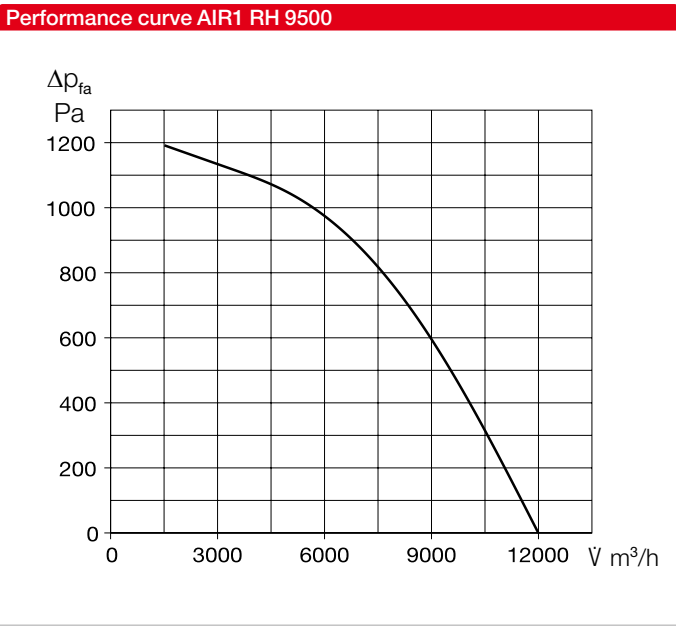




Unit types

	AIR1 RH 9500	AIR1 RH 9500/SO
Ref. no.	04349	04358
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	1,380 m³/h
Max. air volume ERP	9,700 m³/h (1) (9,400 m³/h (4))
Max. air volume (free blowing)	12,000 m³/h
Weight, unit operational	1,085 kg (1106 kg (4))
Delivery unit	2-part
Unit segments	2
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 +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 3,500 W
Nominal current	10.7 / 10.7 / 12.7 A (10.7 / 10.7 / 13.8 A (4))
Connection (wiring diagram no.)	1323

(1) = at 400 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories
(3) = with increased humidity recovery
(4) = AIR RH 9500/SO

Sound data AIR1 RH 9500

Sound power level L _{WA} dB(A) at 400 Pa external pressure			
	2,900 m³/h	7,000 m³/h	9,700 m³/h
Supply air (L _{WA})	78	83	89
Extract air (L _{WA})	64	66	73
Outside air (L _{WA})	67	66	70
Exhaust air (L _{WA})	77	81	88
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	2,900 m³/h	7,000 m³/h	9,700 m³/h
Housing rad. 1 m	48	50	57
Housing rad. 3 m	38	41	47
Housing rad. 5 m	34	36	43

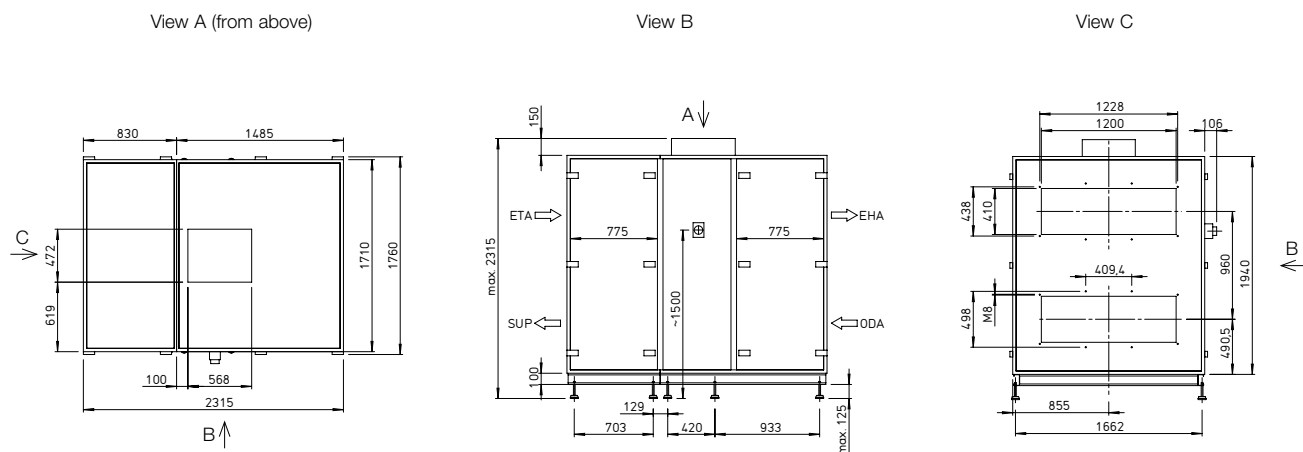
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

Sound data AIR1 RH 9500/SO

Sound power level L _{WA} dB(A) at 400 Pa external pressure			
	2,900 m³/h	7,000 m³/h	9,400 m³/h
Supply air (L _{WA})	78	83	89
Extract air (L _{WA})	65	67	72
Outside air (L _{WA})	68	66	68
Exhaust air (L _{WA})	77	82	88
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	2,900 m³/h	7,000 m³/h	9,400 m³/h
Housing rad. 1 m	48	50	56
Housing rad. 3 m	38	41	47
Housing rad. 5 m	34	36	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.

Dimensions AIR1 RH 9500



Dimensions in mm

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

Accessories

Heating and cooling registers

Pre-heater

AIR1-EVH RH 9500	Electrical, external	Ref. no. 01830	Page 93
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Auxiliary heater

AIR1-ENH RH 9500	Electrical, external	Ref. no. 03627	Page 95
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AIR1-NH WW RH 9500	Hot water, external	Ref. no. 03830	Page 97
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Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V) L		Ref. no. 06311	Page 96
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Cooling register

AIR1-KR KW RH 9500 L ⁽¹⁾	Cold water, external	Ref. no. 03984	Page 102
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AIR1-KR KW RH 9500 R ⁽¹⁾	Cold water, external	Ref. no. 04383	Page 102
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AIR1-CO DX RH 9500 L ⁽¹⁾	Change-over, external	Ref. no. 40396	Page 108
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AIR1-CO DX RH 9500 R ⁽¹⁾	Change-over, external	Ref. no. 40405	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		Ref. no. 07169	Page 114
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for use with floor-mounted units and cooling register

External installation

Cover for external installation

AIR1-AAD RH 9500	Weather protection cover for the unit	Ref. no. 06436	Page 117
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AIR1-AAD RH 9500/ULM	Weather protection cover for the unit incl. recirculation module	Ref. no. 06442	Page 117
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AIR1-AAD KR KW + DX RH 9500	Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06473	Page 118
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AIR1-AAD NH EL + WW RH 9500	Weather protection cover for aux. heater	Ref. no. 06448	Page 118
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Terminal box heater

AIR1-AAHK		Ref. no. 07064	Page 114
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Hoods

AIR1-AAHA XH 8500/RH 9500	Intake hood outside air	Ref. no. 06499	Page 115
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AIR1-AAHF XH 8500/RH 9500	Discharge hood exhaust air	Ref. no. 06864	Page 115
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Air routing

Multi-leaf damper

AIR1-JVK XH 8500/RH 9500		Ref. no. 06013	Page 111
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Recirculation module

AIR1-ULM RH 9500		Ref. no. 06185	Page 110
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Flexible connector

AIR1-VS 120/41		Ref. no. 04377	Page 113
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Potential equalisation cable

PAK M8		Ref. no. 40812	Page 113
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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 9500/ePM10 50%/48 (M5)		Ref. no. 02200	Page 123
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ELF-AIR1 RH 9500/ePM10 50%/96 (M5)		Ref. no. 02217	Page 123
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ELF-AIR1 RH 9500/ePM1 55%/96 (F7)		Ref. no. 02261	Page 123
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ELF-AIR1 RH 9500/ePM1 80%/96 (F9)		Ref. no. 02463	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.