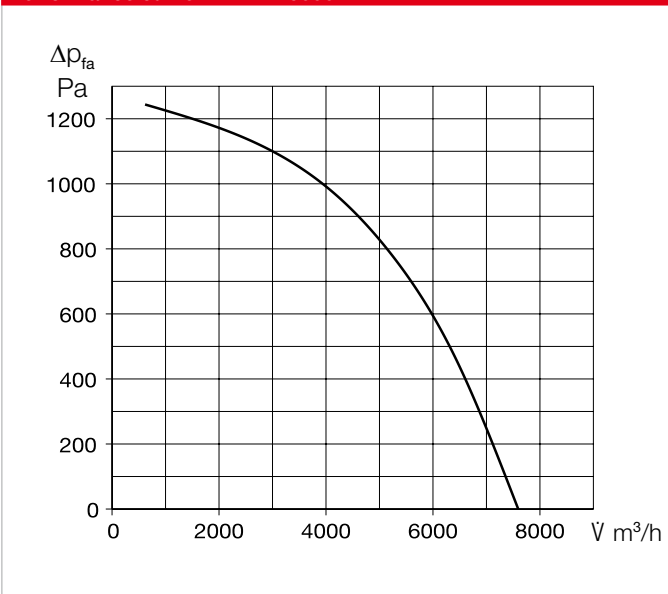


**AIR1 RH 6000**



Fig. shows accessories

**Performance curve AIR1 RH 6000**



**Unit types**

	<b>AIR1 RH 6000</b>	<b>AIR1 RH 6000/SO</b>
Ref. no.	04347	04356
Heat exchanger	Condensation rotor	Adsorption rotor <sup>(3)</sup>

**Technical data**

<b>Mechanical data</b>	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	845 m <sup>3</sup> /h
Max. air volume ERP	6,100 m <sup>3</sup> /h <sup>(1)</sup> (5,950 m <sup>3</sup> /h <sup>(4)</sup> )
Max. air volume (free blowing)	7,600 m <sup>3</sup> /h
Weight, unit operational	775 kg (787 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) <sup>(2)</sup>
Filter Extract air	ISO ePM <sub>10</sub> 50% (M5) <sup>(2)</sup>
Media temperature (air)	-20 to +40 °C
Ambient temperature (place of installation)	-20 to +50 °C
Protection class	IP31
<b>Electrical data</b>	
Central building control system	BACnet, Modbus TCP/IP
Voltage / Frequency	400 V 3N ~, 50 Hz
Max. output Fans	2 x 2,400 W
Nominal current	7.3 / 7.3 / 8.8 A (7.3 / 7.3 / 9.3 A <sup>(4)</sup> )
Connection (wiring diagram no.)	1321

(1) = at 400 Pa external pressure loss ERP-compliant  
 (2) = other filter classes see optional accessories  
 (3) = with increased humidity recovery  
 (4) = AIR RH 6000/SO

**Sound data AIR1 RH 6000**

<b>Sound power level L<sub>WA</sub> dB(A) at 400 Pa external pressure</b>			
	1,900 m <sup>3</sup> /h	4,400 m <sup>3</sup> /h	6,100 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	77	80	87
Extract air (L <sub>WA</sub> )	63	64	70
Outside air (L <sub>WA</sub> )	67	61	66
Exhaust air (L <sub>WA</sub> )	76	79	85
<b>Sound pressure level L<sub>pA</sub> dB(A) of sound radiated from housing</b>			
	1,900 m <sup>3</sup> /h	4,400 m <sup>3</sup> /h	6,100 m <sup>3</sup> /h
Housing rad. 1 m	46	47	53
Housing rad. 3 m	37	37	44
Housing rad. 5 m	32	33	39

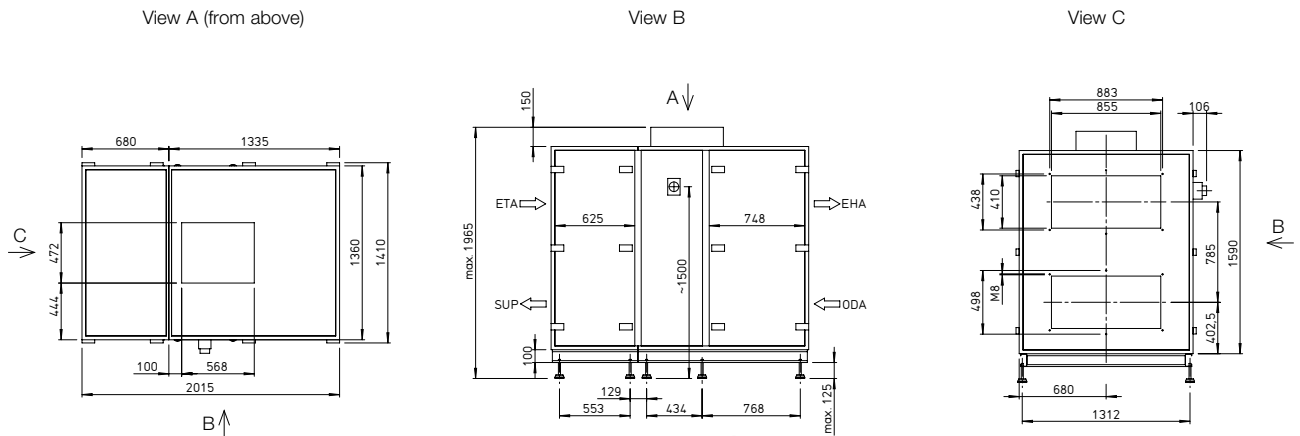
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

**Sound data AIR1 RH 6000/SO**

<b>Sound power level L<sub>WA</sub> dB(A) at 400 Pa external pressure</b>			
	1,900 m <sup>3</sup> /h	4,400 m <sup>3</sup> /h	5,950 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	77	81	86
Extract air (L <sub>WA</sub> )	64	64	70
Outside air (L <sub>WA</sub> )	67	61	65
Exhaust air (L <sub>WA</sub> )	76	79	85
<b>Sound pressure level L<sub>pA</sub> dB(A) of sound radiated from housing</b>			
	1,900 m <sup>3</sup> /h	4,400 m <sup>3</sup> /h	5,950 m <sup>3</sup> /h
Housing rad. 1 m	47	47	53
Housing rad. 3 m	37	38	43
Housing rad. 5 m	33	33	39

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 6000



Dimensions in mm

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

■ Accessories

■ Heating and cooling registers

Pre-heater

<b>AIR1-EVH RH 6000</b> Electrical, external	Ref. no. 01792	Page 122
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Auxiliary heater

<b>AIR1-ENH RH 6000</b> Electrical, external	Ref. no. 03625	Page 123
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<b>AIR1-NH WW RH 6000</b> Hot water, external	Ref. no. 03826	Page 124
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Hydraulic unit for hot water heater register

<b>WHSB HE 24 V (0 – 10 V) M</b>	Ref. no. 06310	Page 125
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Cooling register

<b>AIR1-KR KW RH 6000 L <sup>(1)</sup></b> Cold water, external	Ref. no. 03976	Page 126
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<b>AIR1-KR KW RH 6000 R <sup>(1)</sup></b> Cold water, external	Ref. no. 04288	Page 126
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<b>AIR1-CO DX RH 6000 L <sup>(1)</sup></b> Change-over, external	Ref. no. 40394	Page 128
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<b>AIR1-CO DX RH 6000 R <sup>(1)</sup></b> Change-over, external	Ref. no. 40403	Page 128
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<b>AIR1-SM DX <sup>(2)</sup></b> Control module	Ref. no. 40408	Page 130
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■ Air routing

Multi-leaf damper

<b>AIR1-JVK XH 5500/RH 5000-6000</b>	Ref. no. 06010	Page 130
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Recirculation module

<b>AIR1-ULM RH 6000</b>	Ref. no. 06160	Page 130
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Flexible connector

<b>AIR1-VS 85/41</b>	Ref. no. 04375	Page 131
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Adapter square-round

<b>AIR1-ÜS XH 5500/RH 5000-6000</b>	Ref. no. 04370	Page 131
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■ Air filters

Spare air filter and other filter classes

<b>ELF-AIR1 RH 6000/ePM10 50%/48 (M5)</b>	Ref. no. 02220	Page 139
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<b>ELF-AIR1 RH 6000/ePM10 50%/96 (M5)</b>	Ref. no. 02215	Page 139
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<b>ELF-AIR1 RH 6000/ePM1 55%/96 (F7)</b>	Ref. no. 02240	Page 139
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<b>ELF-AIR1 RH 6000/ePM1 80%/96 (F9)</b>	Ref. no. 02451	Page 139
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The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.

■ External installation

Cover for external installation

<b>AIR1-AAD RH 6000</b> Weather protection cover for the unit	Ref. no. 06434	Page 132
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<b>AIR1-AAD RH 6000/ULM</b> Weather protection cover for the unit incl. recirculation module	Ref. no. 06440	Page 133
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<b>AIR1-AAD KR KW + DX RH 6000</b> Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06471	Page 134
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<b>AIR1-AAD NH EL + WW RH 6000</b> Weather protection cover for aux. heater	Ref. no. 06446	Page 134
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Terminal box heater

<b>AIR1-AAHK</b>	Ref. no. 07064	Page 135
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Hoods

<b>AIR1-AAHA XH 5500/RH 5000-6000</b> Intake hood outside air	Ref. no. 06496	Page 135
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<b>AIR1-AAHF XH 5500/RH 5000-6000</b> Discharge hood exhaust air	Ref. no. 06648	Page 136
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■ Controls

Controllers

<b>AIR1-BE ECO</b>	Ref. no. 06186	Page 137
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<b>AIR1-BE TOUCH</b>	Ref. no. 06187	Page 137
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Controller connection cable

<b>AIR1-SL 4/10</b> 10 m	Ref. no. 07073	Page 137
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<b>AIR1-SL 4/20</b> 20 m	Ref. no. 07121	Page 137
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Sensors

<b>AIR1/KWL-VOC 0-10V</b> Mixed gas sensor	Ref. no. 20250	Page 137
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<b>AIR1/KWL-CO2 0-10V</b> Carbon dioxide sensor	Ref. no. 20251	Page 137
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<b>AIR1/KWL-FTF 0-10V</b> Humidity-temperature sensor	Ref. no. 20252	Page 137
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<b>AIR1-CO2 K</b> Carbon dioxide sensor duct	Ref. no. 07124	Page 138
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Signal converter for sensors

<b>AIR1-SK</b>	Ref. no. 06019	Page 138
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Extension kit for constant pressure control

<b>AIR1-CAP</b>	Ref. no. 06756	Page 138
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(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.