

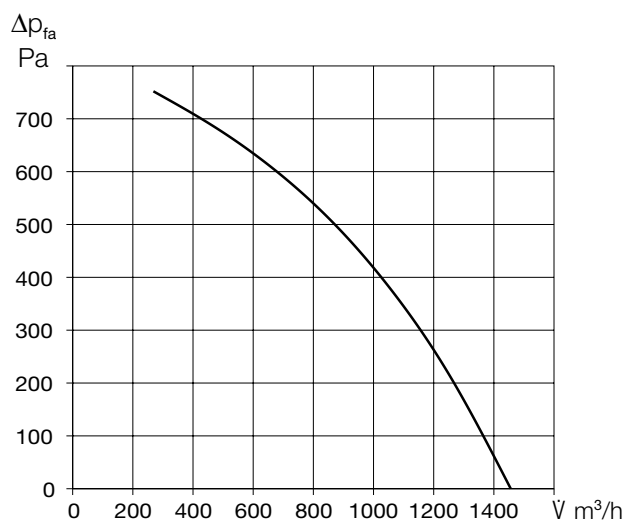
**AIR1 XHP 1000**



**NEW**



**Performance curve AIR1 XHP 1000**



**Unit type**

	<b>AIR1 XHP 1000</b>
Ref. no.	40609
Heat exchanger	Cross-counterflow

**Technical data**

Mechanical data		
Area of application	Inside/outside	
Installation position	standing	
Maintenance access	Side, both sides	
Min. air volume	350 m <sup>3</sup> /h	
Max. air volume ERP	920 m <sup>3</sup> /h <sup>(1)</sup>	
Max. air volume (free blowing)	1,450 m <sup>3</sup> /h	
Weight, unit operational	250 kg	
Delivery unit	1-part	
Unit segments	1	
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 +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	230 V 1N ~, 50 Hz <sup>(4)</sup>
Max. output Fans	2 x 500 W	2 x 500 W
Max. output elec. pre-/post-heater	3,600 / 3,600 W <sup>(3)</sup>	2,505 W <sup>(3) (4)</sup>
Nominal current		
– Ventilation unit	5.2 / 0 / 0 A	5.2 A
– Electrical pre-heater	5.2 / 5.2 / 5.2 A	10.8 A <sup>(4)</sup>
– Electrical auxiliary heater	5.2 / 5.2 / 5.2 A	not permitted
– max. total	15.6 / 10.4 / 10.4 A	16 A <sup>(4)</sup>
Connection (wiring diagram no.)	1512	1512

(1) = at 200 Pa external pressure loss ERP-compliant

(2) = other filter classes see optional accessories

(3) = Optional accessories

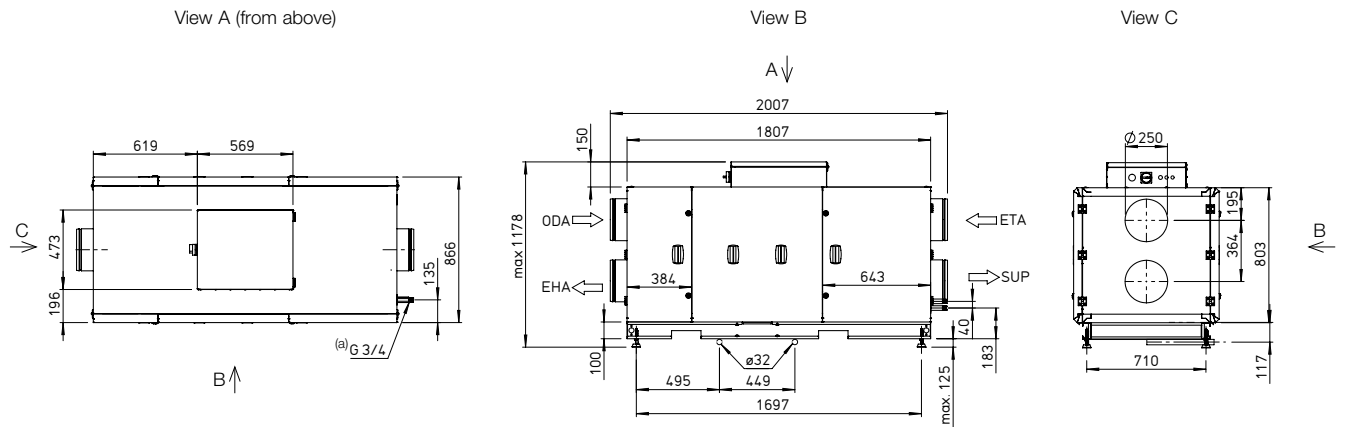
(4) = Note: 230 V connection of the unit is only permissible without or with pre-heater AIR1-EVH XHP 1000-2.5 (Ref. No. 40572) and without electrical auxiliary heater.

**Sound data**

Sound power level L <sub>WA</sub> dB(A) at 200 Pa external pressure			
	500 m <sup>3</sup> /h	700 m <sup>3</sup> /h	920 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	69	71	72
Extract air (L <sub>WA</sub> )	59	57	57
Outside air (L <sub>WA</sub> )	59	57	57
Exhaust air (L <sub>WA</sub> )	70	73	74
Sound pressure level L <sub>pA</sub> dB(A) of sound radiated from housing			
	500 m <sup>3</sup> /h	700 m <sup>3</sup> /h	920 m <sup>3</sup> /h
Housing rad. 1 m	36	38	40
Housing rad. 3 m	26	28	30
Housing rad. 5 m	22	24	26

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 XHP 1000



Dimensions in mm

(a) External thread

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

■ Accessories

■ Heating and cooling registers

Pre-heater		
<b>AIR1-EVH XHP 1000-3,6</b> Electrical, internal	Ref. no. 40560	Page 84
<b>AIR1-EVH XHP 1000-2,5</b> Electrical, internal	Ref. no. 40572	Page 84
Auxiliary heater		
<b>AIR1-ENH XHP 1000</b> Electrical, internal	Ref. no. 40561	Page 84
<b>AIR1-NH WW XHP 1000</b> Hot water, internal	Ref. no. 40562	Page 84
Hydraulic unit for hot water heater register		
<b>WHSB HE 24 V (0 – 10 V)</b>	Ref. no. 08318	Page 84
Cooling register		
<b>AIR1-KR KW XHP 1000 L <sup>(1)</sup></b> Cold water, external	Ref. no. 40563	Page 86
<b>AIR1-KR KW XHP 1000 R <sup>(1)</sup></b> Cold water, external	Ref. no. 40564	Page 86
<b>AIR1-CO DX XHP 1000 L <sup>(1)</sup></b> Change-over, external	Ref. no. 40565	Page 88
<b>AIR1-CO DX XHP 1000 R <sup>(1)</sup></b> Change-over, external	Ref. no. 40566	Page 88

■ Air routing

Motorised duct shutter		
<b>RVMD 250/24V</b>	Ref. no. 40246	Page 90
Recirculation kit		
<b>AIR1-ULK XHP 1000</b>	Ref. no. 40570	Page 91

■ Condensate drainage

Ball siphon		
<b>AIR1-KS B</b> for use with floor-mounted units and cooling register	Ref. no. 07169	Page 92

(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.

■ External installation

Cover for external installation		
<b>AIR1-AAD XHP 1000</b> Weather protection cover for the unit	Ref. no. 40567	Page 93
<b>AIR1-AAD KR KW + DX XHP 1000</b> Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 40568	Page 94
Terminal box heater		
<b>AIR1-AAHK</b>	Ref. no. 07064	Page 95

■ Controls

Controllers		
<b>AIR1-BE ECO</b>	Ref. no. 06186	Page 97
<b>AIR1-BE TOUCH 2</b>	Ref. no. 40751	Page 97
Controller connection cable		
<b>AIR1-SL 4/10</b> 10 m	Ref. no. 07073	Page 97
<b>AIR1-SL 4/20</b> 20 m	Ref. no. 07121	Page 97
Sensoren		
<b>AIR1/KWL-VOC 0-10V</b> Mixed gas sensor	Ref. no. 20250	Page 97
<b>AIR1/KWL-CO2 0-10V</b> Carbon dioxide sensor	Ref. no. 20251	Page 97
<b>AIR1/KWL-FTF 0-10V</b> Humidity-temperature sensor	Ref. no. 20252	Page 97
<b>AIR1-CO2 K</b> Carbon dioxide sensor duct	Ref. no. 07124	Page 98
Signal converter for sensors		
<b>AIR1-SK</b>	Ref. no. 06019	Page 98
Extension kit for constant pressure control		
<b>AIR1-CAP</b>	Ref. no. 06756	Page 98

■ Air filters

Spare air filter and other filter classes		
<b>ELF-AIR1 XHP 1000/ePM10 50%/48 (M5)</b>	Ref. no. 40618	Page 99
<b>ELF-AIR1 XHP 1000/ePM10 50%/96 (M5)</b>	Ref. no. 40598	Page 99
<b>ELF-AIR1 XHP 1000/ePM1 55%/96 (F7)</b>	Ref. no. 40599	Page 99
<b>ELF-AIR1 XHP 1000/ePM1 80%/96 (F9)</b>	Ref. no. 40600	Page 99

The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.