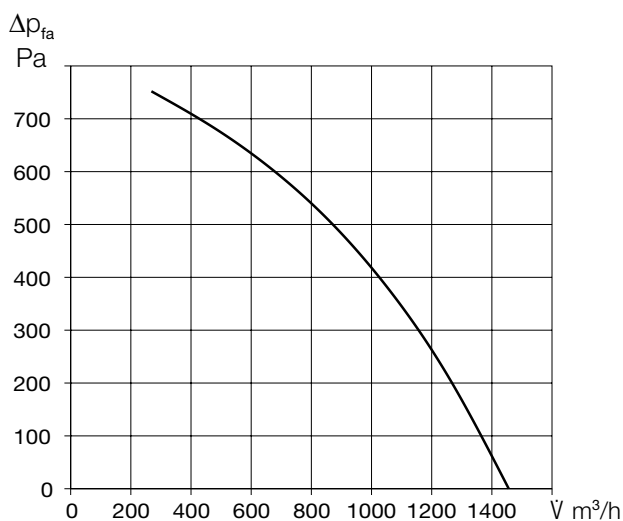


AIR1 XHP 1000



NEW

Performance curve AIR1 XHP 1000



Unit type

	AIR1 XHP 1000
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 ³ /h
Max. air volume ERP	920 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	1,450 m ³ /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 ₁ , 55% (F7) ⁽²⁾
Filter Extract air	ISO ePM ₁₀ 50% (M5) ⁽²⁾
Media temperature (air)	-20 to +50 °C
Ambient temperature (operation)	-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 ⁽⁴⁾
Max. output Fans	2 x 500 W 2 x 500 W
Max. output elec. pre-/post-heater	3,600 / 3,600 W ⁽³⁾ 2,505 W ^{(3) (4)}
Nominal current	
– Ventilation unit	5.2 / 0 / 0 A 5.2 A
– Electrical pre-heater	0 / 0 / 15.7 A 10.8 A ⁽⁴⁾
– Electrical auxiliary heater	0 / 15.7 / 0 A not permitted
– max. total	5.2 / 15.7 / 15.7 A 16 A ⁽⁴⁾
Connection (wiring diagram no.)	1512 1512

(1) = at 250 Pa external pressure loss ERP-compliant

(2) = other filter classes see optional accessories

(3) = Optional accessories

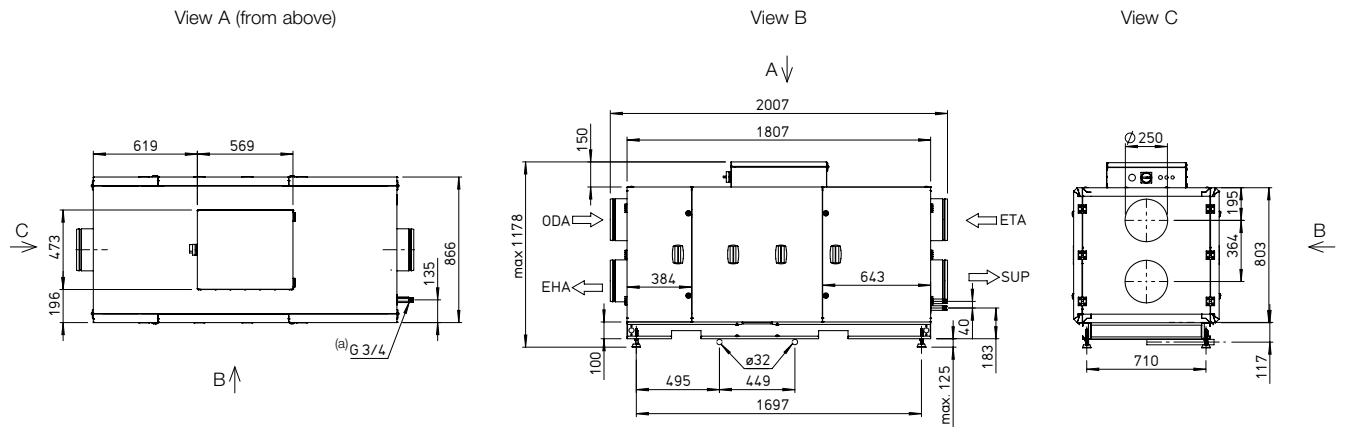
(4) = Note: 230 V connection of the unit is only permissible without or with pre-heater AIR1-EVH XHP 1000-2.5 (Ref. No. 40572) and without electrical auxiliary heater.

Sound data

Sound power level L _{WA} dB(A) at 250 Pa external pressure			
	500 m ³ /h	700 m ³ /h	920 m ³ /h
Supply air (L _{WA})	67	77	84
Extract air (L _{WA})	58	65	70
Outside air (L _{WA})	66	71	74
Exhaust air (L _{WA})	67	76	83
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	500 m ³ /h	700 m ³ /h	920 m ³ /h
Housing rad. 1 m	46	55	60
Housing rad. 3 m	36	45	50
Housing rad. 5 m	32	41	46

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

AIR1-EVH XHP 1000-3,6 Electrical, internal	Ref. no. 40560	Page 88
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AIR1-EVH XHP 1000-2,5 Electrical, internal	Ref. no. 40572	Page 88
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Auxiliary heater

AIR1-ENH XHP 1000 Electrical, internal	Ref. no. 40561	Page 88
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AIR1-NH WW XHP 1000 Hot water, internal	Ref. no. 40562	Page 88
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Hydraulic unit for hot water heater register

WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 88
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Cooling register

AIR1-KR KW XHP 1000 L ⁽¹⁾ Cold water, external	Ref. no. 40563	Page 90
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AIR1-KR KW XHP 1000 R ⁽¹⁾ Cold water, external	Ref. no. 40564	Page 90
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AIR1-CO DX XHP 1000 L ⁽¹⁾ Change-over, external	Ref. no. 40565	Page 92
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AIR1-CO DX XHP 1000 R ⁽¹⁾ Change-over, external	Ref. no. 40566	Page 92
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Air routing

Motorised duct shutter

RVMD 250/24V	Ref. no. 40246	Page 94
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Recirculation kit

AIR1-ULK XHP 1000	Ref. no. 40570	Page 95
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Condensate drainage

Ball siphon

AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 96
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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.

External installation

Cover for external installation

AIR1-AAD XHP 1000 Weather protection cover for the unit	Ref. no. 40567	Page 97
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AIR1-AAD KR KW + DX XHP 1000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 40568	Page 98
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 99
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Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 101
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AIR1-BE TOUCH 2	Ref. no. 40751	Page 101
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Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 101
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AIR1-SL 4/20 20 m	Ref. no. 07121	Page 101
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Sensoren

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 101
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AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 101
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AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 101
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AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 102
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Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 102
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 102
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Air filters

Spare air filter and other filter classes

ELF-AIR1 XHP 1000/ePM10 50%/48 (M5)	Ref. no. 40618	Page 103
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ELF-AIR1 XHP 1000/ePM10 50%/96 (M5)	Ref. no. 40598	Page 103
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ELF-AIR1 XHP 1000/ePM1 55%/96 (F7)	Ref. no. 40599	Page 103
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ELF-AIR1 XHP 1000/ePM1 80%/96 (F9)	Ref. no. 40600	Page 103
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The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.