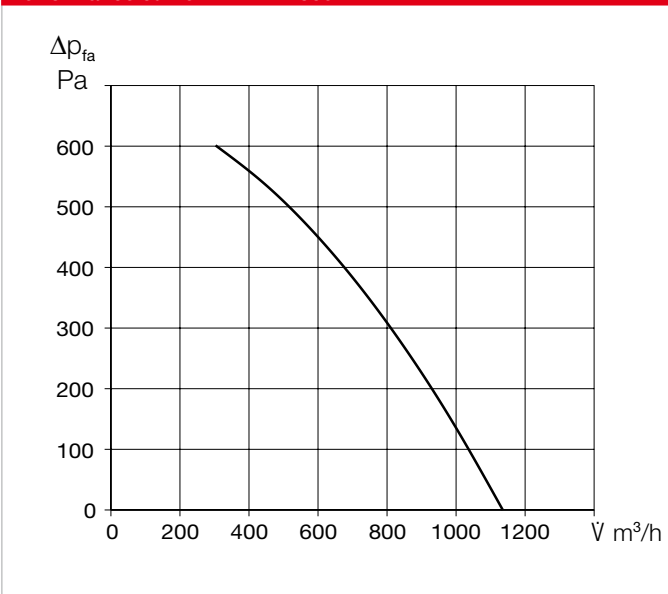


AIR1 XVP 850



Performance curve AIR1 XVP 850



Unit type

	AIR1 XVP 850
Ref. no.	40612
Heat exchanger	Cross-counterflow

Technical data

Mechanical data	
Area of application	Inside
Installation position	standing
Maintenance access	both sides
Min. air volume	270 m ³ /h
Max. air volume ERP	790 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	1,150 m ³ /h
Weight, unit operational	230 kg
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 (place of installation)	0 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 320 W 2 x 320 W
Max. output Elec. pre-/post-heater	2,965 / 2.965 W ⁽³⁾ 2,965 W ^{(3) (5)}
Nominal current	
– Ventilation unit	3.1 / 0 / 0 A 3.1 A 3.1 A
– Electrical pre-heater	0 / 0 / 12.9 A 12.9 A ⁽⁴⁾ –
– Electrical auxiliary heater	0 / 12.9 / 0 A – 12.9 A ⁽⁴⁾
– max. total	3.1 / 12.9 / 12.9 A 16 A ⁽⁴⁾ 16 A ⁽⁴⁾
Connection (wiring diagram no.)	1506 1506

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

(2) = Other filter classes see optional accessories

(3) = Optional accessory

(4) = Attention: 230 V connection of the unit is only possible without electric heater or with auxiliary heater AIR1-EVH XVP 1250-2,6 (Art. No. 40481).

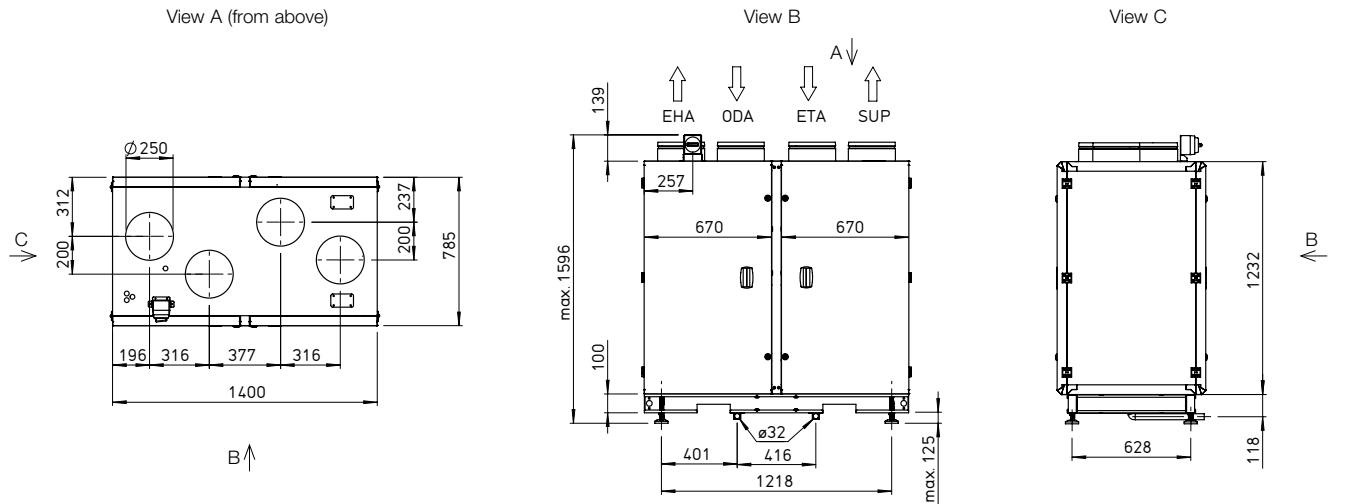
(5) = Attention: Auxiliary heater AIR1-EVH XVP 1250-2,6 (Art-No. 40481) only for 230 V connection (no 400 V connection possible!).

Sound data

Sound power level L _{WA} dB(A) at 200 Pa external pressure			
	370 m ³ /h	600 m ³ /h	790 m ³ /h
Supply air (L _{WA})	71	74	76
Extract air (L _{WA})	65	63	64
Outside air (L _{WA})	65	63	64
Exhaust air (L _{WA})	70	72	75
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	370 m ³ /h	600 m ³ /h	790 m ³ /h
Housing rad. 1 m	42	42	43
Housing rad. 3 m	33	32	34
Housing rad. 5 m	28	28	29

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 XVP 850



Dimensions in mm

ODA: Outside air EHA: Exhaust air ETA: Extract air SUP: Supply air

■ Accessories

■ Heating and cooling registers

Pre-heater

AIR1-EVH XVP 850 Electrical, internal	Ref. no. 40473	Page 54
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Auxiliary heater

AIR1-ENH XVP 850 Electrical, internal	Ref. no. 40474	Page 54
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AIR1-NH WW XVP 850 Hot water, internal	Ref. no. 40475	Page 55
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Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V)	Ref. no. 08318	Page 55
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Cooling register

AIR1-KR KW XVP 850 L ⁽¹⁾ Cold water, external	Ref. no. 40476	Page 56
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AIR1-KR KW XVP 850 R ⁽¹⁾ Cold water, external	Ref. no. 40477	Page 56
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AIR1-CO DX XVP 850 L ⁽¹⁾ Change-over, external	Ref. no. 40478	Page 57
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AIR1-CO DX XVP 850 R ⁽¹⁾ Change-over, external	Ref. no. 40479	Page 57
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Cooling register accessories

AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 59
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■ Air routing

Motorised duct shutter

RVMD 250/24V	Ref. no. 40246	Page 58
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■ Condensate drainage

Ball siphon

AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 59
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■ Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 60
AIR1-BE TOUCH 2	Ref. no. 40751	Page 60

Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 60
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 60

Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 60
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 60
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 60
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 60

Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 61
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 60
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■ Air filters

Spare air filter and other filter classes

ELF-AIR1 XVP 850 ePM10 50%/48 (M5)	Ref. no. 40515	Page 61
ELF-AIR1 XVP 850 ePM10 50%/96 (M5)	Ref. no. 40514	Page 61
ELF-AIR1 XVP 850 ePM1 55%/96 (F7)	Ref. no. 40516	Page 61
ELF-AIR1 XVP 850 ePM1 80%/96 (F9)	Ref. no. 40517	Page 61

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.