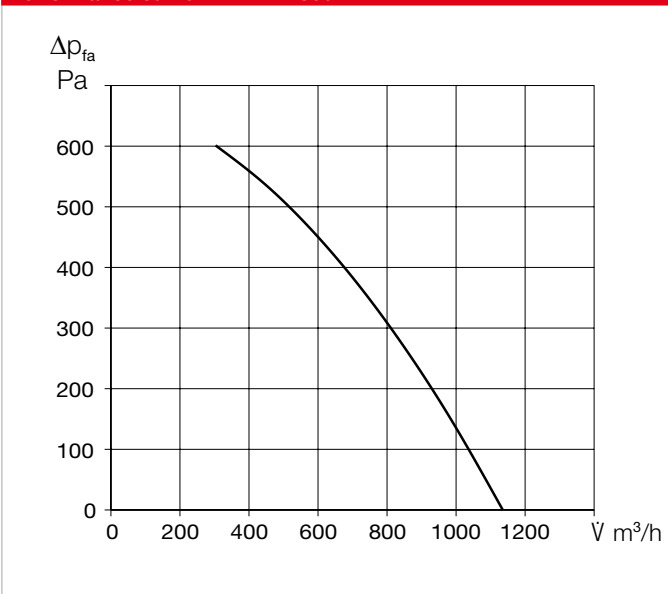


AIR1 XVP 850



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	775 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 (operation)	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) (4)}
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.)	1507 1507

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

(2) = Other filter classes see optional accessories

(3) = Optional accessory

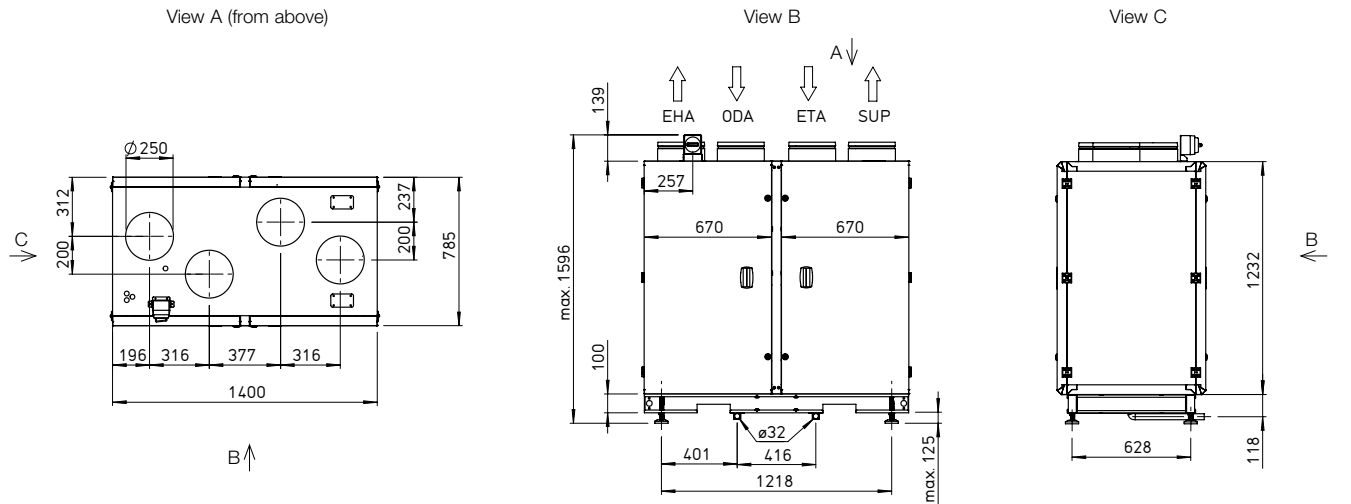
(4) = Attention: 230 V connection only possible with an electric pre- or auxiliary heater!
No simultaneous installation.

Sound data

Sound power level L _{WA} dB(A) at 200 Pa external pressure			
	370 m ³ /h	600 m ³ /h	775 m ³ /h
Supply air (L _{WA})	65	77	84
Extract air (L _{WA})	56	66	71
Outside air (L _{WA})	62	71	77
Exhaust air (L _{WA})	63	72	79
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	370 m ³ /h	600 m ³ /h	775 m ³ /h
Housing rad. 1 m	38	49	57
Housing rad. 3 m	29	39	47
Housing rad. 5 m	24	35	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.

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 52
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Auxiliary heater

AIR1-ENH XVP 850 Electrical, internal	Ref. no. 40474	Page 52
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AIR1-NH WW XVP 850 Hot water, internal	Ref. no. 40475	Page 53
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Hydraulic unit for hot water heater register

WHSHE 24 V (0 – 10 V)	Ref. no. 08318	Page 53
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Cooling register

AIR1-KR KW XVP 850 L ⁽¹⁾ Cold water, external	Ref. no. 40476	Page 54
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AIR1-KR KW XVP 850 R ⁽¹⁾ Cold water, external	Ref. no. 40477	Page 54
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AIR1-CO DX XVP 850 L ⁽¹⁾ Change-over, external	Ref. no. 40478	Page 55
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AIR1-CO DX XVP 850 R ⁽¹⁾ Change-over, external	Ref. no. 40479	Page 55
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Cooling register accessories

AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 57
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Air routing

Motorised duct shutter

RVMD 250/24V	Ref. no. 40246	Page 56
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Condensate drainage

Ball siphon

AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 57
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Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 58
AIR1-BE TOUCH 2	Ref. no. 40751	Page 58

Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 58
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 58

Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 58
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 58
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 58
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 58

Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 59
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 58
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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 59
ELF-AIR1 XVP 850 ePM10 50%/96 (M5)	Ref. no. 40514	Page 59
ELF-AIR1 XVP 850 ePM1 55%/96 (F7)	Ref. no. 40516	Page 59
ELF-AIR1 XVP 850 ePM1 80%/96 (F9)	Ref. no. 40517	Page 59

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.