

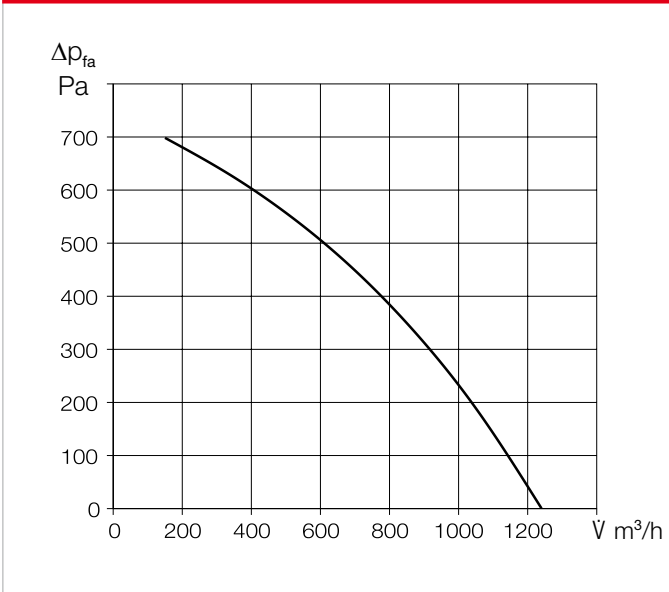
AIR1 XH 1000



Fig. shows accessories



Performance curve AIR1 XH 1000



Unit type

	AIR1 XH 1000
Ref. no.	04335
Heat exchanger	Cross-counterflow

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	345 m ³ /h
Max. air volume ERP	950 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	1240 m ³ /h
Weight, unit operational	276 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	IP 31
Electrical data	
Central building control system	BACnet, Modbus TCP/IP
Voltage / Frequency	400 V 3N -, 50 Hz
Max. output Fans	2 x 320 W
Max. output elec. pre-heater	2600 W
Nominal current	
- Ventilation unit	5.2 / 5.2 / 4.6 A ⁽³⁾
- Electrical auxiliary heater	3.8 / 3.8 / 3.8 A ⁽⁴⁾
- max. total	8.9 / 8.9 / 8.3 A
Connection (wiring diagram no.)	1326

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

(2) = other filter classes see optional accessories

(3) = includes electrical pre-heater

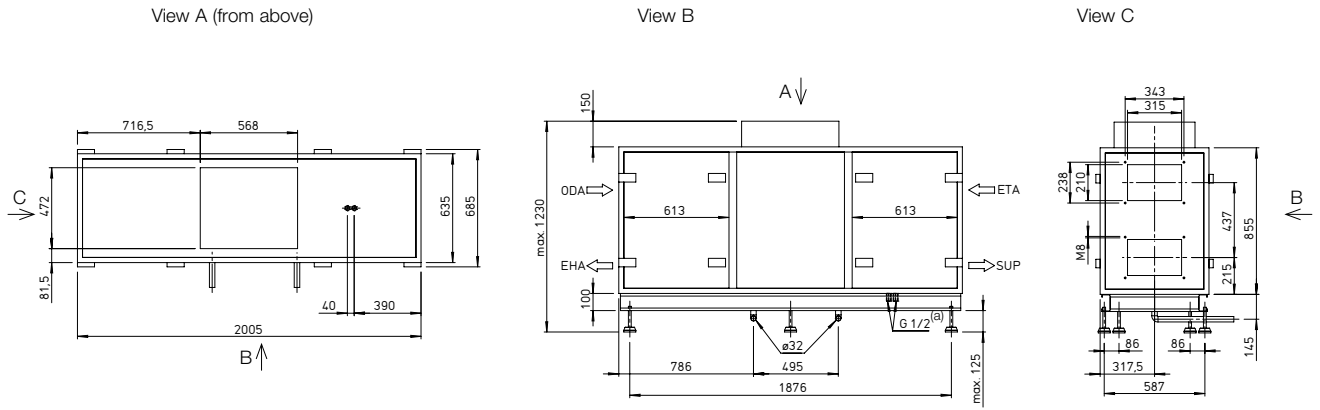
(4) = Optional accessories

Sound data

Sound power level L _{WA} dB(A) at 250 Pa external pressure			
	350 m ³ /h	700 m ³ /h	950 m ³ /h
Supply air (L _{WA})	71	75	78
Extract air (L _{WA})	62	63	65
Outside air (L _{WA})	66	63	65
Exhaust air (L _{WA})	70	73	76
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	350 m ³ /h	700 m ³ /h	950 m ³ /h
Housing rad. 1 m	43	42	45
Housing rad. 3 m	33	33	35
Housing rad. 5 m	29	28	31

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 XH 1000



All dimensions in mm

(a) Internal thread

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

■ Accessories

■ Heating and cooling registers

Auxiliary heater		
AIR1-ENH XH 1000 Electrical, internal	Ref. no. 03587	Page 88
AIR1-NH WW XH 1000 Hot water, internal	Ref. no. 03664	Page 89
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 89
Cooling register		
AIR1-KR KW XH 1000 L ⁽¹⁾ Cold water, external	Ref. no. 03834	Page 90
AIR1-KR KW XH 1000 R ⁽¹⁾ Cold water, external	Ref. no. 04254	Page 90
AIR1-CO DX XH 1000 L ⁽¹⁾ Change-over, external	Ref. no. 40374	Page 92
AIR1-CO DX XH 1000 R ⁽¹⁾ Change-over, external	Ref. no. 40382	Page 92
AIR1-SM DX ⁽²⁾ Control module	Ref. no. 40408	Page 94

■ Air routing

Multi-leaf damper		
AIR1-JVK XH 1000	Ref. no. 06005	Page 94
Recirculation kit		
AIR1-ULK XH 1000	Ref. no. 06022	Page 95
Flexible connector		
AIR1-VS 31/21	Ref. no. 04371	Page 95
Adapter square-round		
AIR1-ÜS XH 1000	Ref. no. 04366	Page 96

■ Condensate drainage

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

■ External installation

Cover for external installation		
AIR1-AAD XH 1000 Weather protection cover for the unit	Ref. no. 06305	Page 97
AIR1-AAD KR KW + DX XH 1000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06451	Page 98
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 99
Hoods		
AIR1-AAHA XH 1000 Intake hood outside air	Ref. no. 06483	Page 99
AIR1-AAHF XH 1000 Discharge hood exhaust air	Ref. no. 06613	Page 100

■ Controls

Controllers		
AIR1-BE ECO	Ref. no. 06186	Page 101
AIR1-BE TOUCH	Ref. no. 06187	Page 101
Controller connection cable		
AIR1-SL 4/10 10 m	Ref. no. 07073	Page 101
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 101
Sensors		
AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 101
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 101
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 101
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 102
Signal converter for sensors		
AIR1-SK	Ref. no. 06019	Page 102
Extension kit for constant pressure control		
AIR1-CAP	Ref. no. 06756	Page 102

■ Air filters

Spare air filter and other filter classes		
ELF-AIR1 XH 1000/ePM10 50%/48 (M5)	Ref. no. 02176	Page 103
ELF-AIR1 XH 1000/ePM10 50%/96 (M5)	Ref. no. 02203	Page 103
ELF-AIR1 XH 1000/ePM1 55%/96 (F7)	Ref. no. 02227	Page 103
ELF-AIR1 XH 1000/ePM1 80%/96 (F9)	Ref. no. 02288	Page 103

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