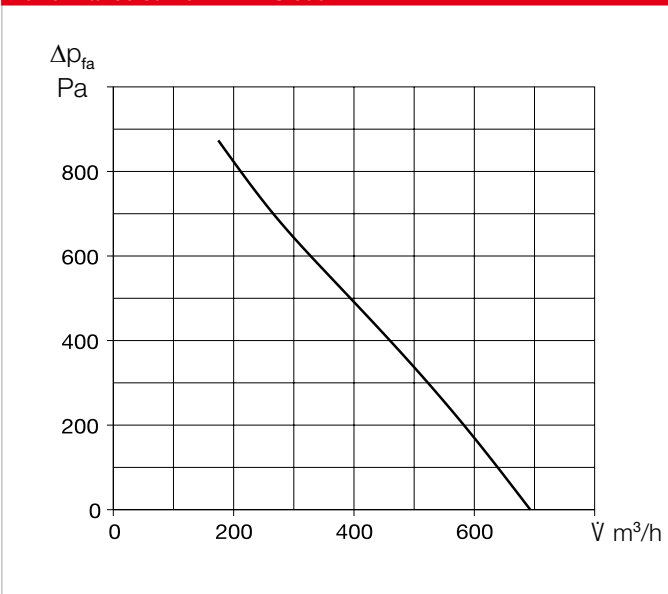


AIR1 XC 500



Performance curve AIR1 XC 500



Unit type

	AIR1 XC 500 L	AIR1 XC 500 R
Ref. no.	04330	40115
Heat exchanger	Cross-counterflow	Cross-counterflow

Technical data

Mechanical data

Area of application	Inside
Installation position	Ceiling
Maintenance access	Side and underside
Min. air volume	170 m ³ /h
Max. air volume ERP	580 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	690 m ³ /h
Weight, unit operational	130 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	230 V 1N ~, 50 Hz
Max. output Fans	2 x 170 W
Max. output Elec. pre-heater	1,600 W
Nominal current	
– Ventilation unit	10.3 A ⁽³⁾
– Electrical auxiliary heater	7 A ⁽⁴⁾
– max. total	17.3 A
Connection (wiring diagram no.)	1312

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

(2) = Other filter classes see optional accessories

(3) = includes electrical pre-heater

(4) = Optional accessory

Sound data

Sound power level L_{WA} dB(A) at 200 Pa external pressure

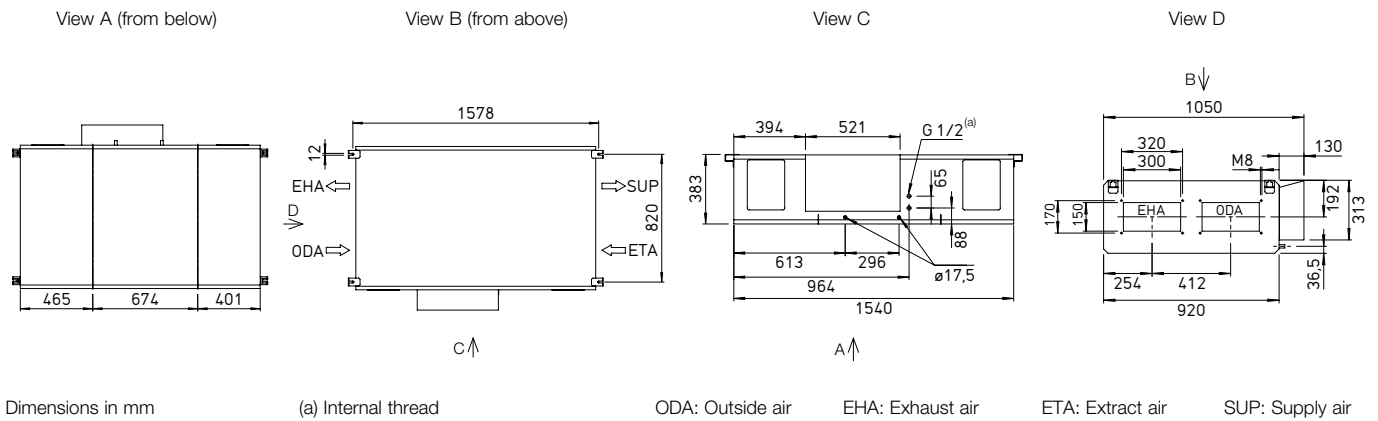
	200 m ³ /h	400 m ³ /h	580 m ³ /h
Supply air (L _{WA})	68	72	78
Extract air (L _{WA})	55	57	61
Outside air (L _{WA})	55	57	61
Exhaust air (L _{WA})	66	71	76

Sound pressure level L_{pA} dB(A) of sound radiated from housing

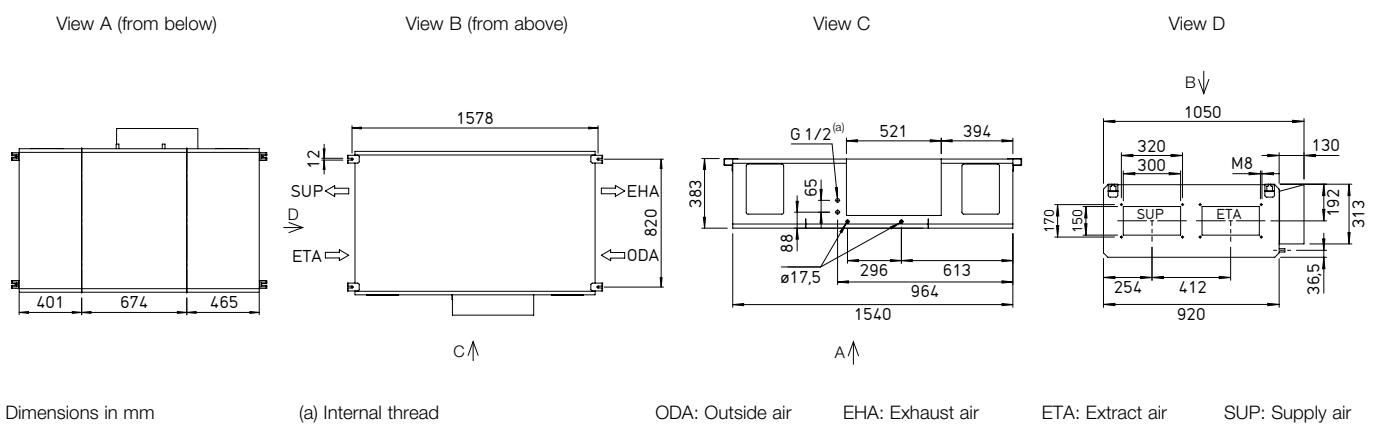
	200 m ³ /h	400 m ³ /h	580 m ³ /h
Housing rad. 1 m	35	37	42
Housing rad. 3 m	25	28	33
Housing rad. 5 m	21	23	28

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 XC 500 L



Dimensions AIR1 XC 500 R



Accessories

Heating and cooling registers

Auxiliary heater

AIR1-ENH XC 500 Electrical, internal	Ref. no. 03558	Page 32
AIR1-NH WW XC 500 L Hot water, internal	Ref. no. 02490	Page 32
AIR1-NH WW XC 500 R Hot water, internal	Ref. no. 40120	Page 32
Hydraulic unit for hot water heating register		
WHS HE 24 V (0 – 10 V)	Ref. no. 08318	Page 32
Cooling register		
AIR1-KR KW XC 500 L Cold water, external	Ref. no. 04185	Page 33
AIR1-KR KW XC 500 R Cold water, external	Ref. no. 40125	Page 33
AIR1-CO DX XC 500 L Change-over, external	Ref. no. 40364	Page 34
AIR1-CO DX XC 500 R Change-over, external	Ref. no. 40369	Page 34
AIR1-SM DX (1) Control module	Ref. no. 40408	Page 35

Air routing

Multi-leaf dampers

AIR1-JVK XC 500	Ref. no. 05421	Page 35
Flexible connector		
AIR1-VS 30/15	Ref. no. 07400	Page 36
Adapter square-round		
AIR1-ÜS XC 500	Ref. no. 04361	Page 36

Condensate drainage

Condensate pump

AIR1-KP XC 500-1400	Ref. no. 06867	Page 37
Ball siphon		
AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 37

Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 37
AIR1-BE TOUCH	Ref. no. 06187	Page 38
Controller connection cable		
AIR1-SL 4/10 10 m	Ref. no. 07073	Page 38
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 38

Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 38
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 38
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 38
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 38

Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 39
Extension kit for constant pressure control		
AIR1-CAP	Ref. no. 06756	Page 38

Air filters

Spare air filter and other filter classes

ELF-AIR1 XC 500/ePM10 50%/96 (M5)	Ref. no. 02171	Page 39
ELF-AIR1 XC 500/ePM1 55%/96 (F7)	Ref. no. 02221	Page 39
ELF-AIR1 XC 500/ePM1 80%/96 (F9)	Ref. no. 02272	Page 39

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

(1) = Necessary accessory in connection with an AIR1-CO DX change-over register for connecting an AIR1 ventilation unit of the XC, XH and RH series to the control of an on-site cooling system.