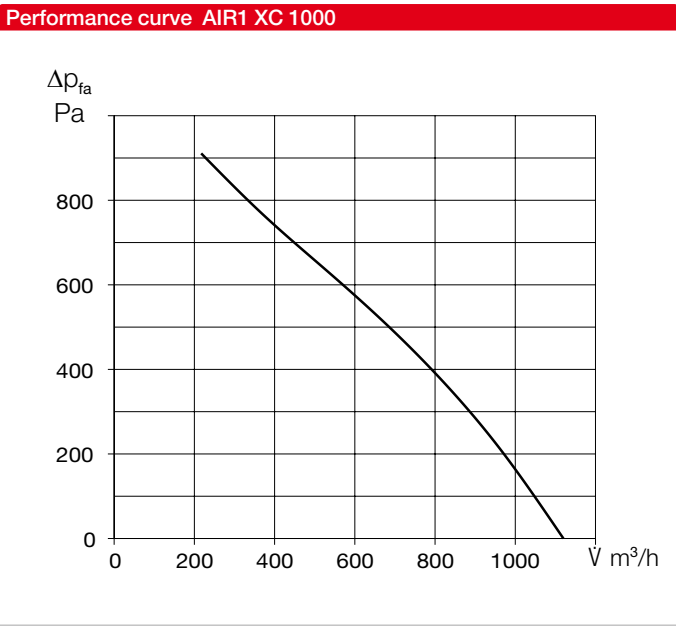




Unit type

	AIR1 XC 1000 L	AIR1 XC 1000 R
Ref. no.	40736	40735
Heat exchanger	Cross-counterflow	Cross-counterflow

Technical data

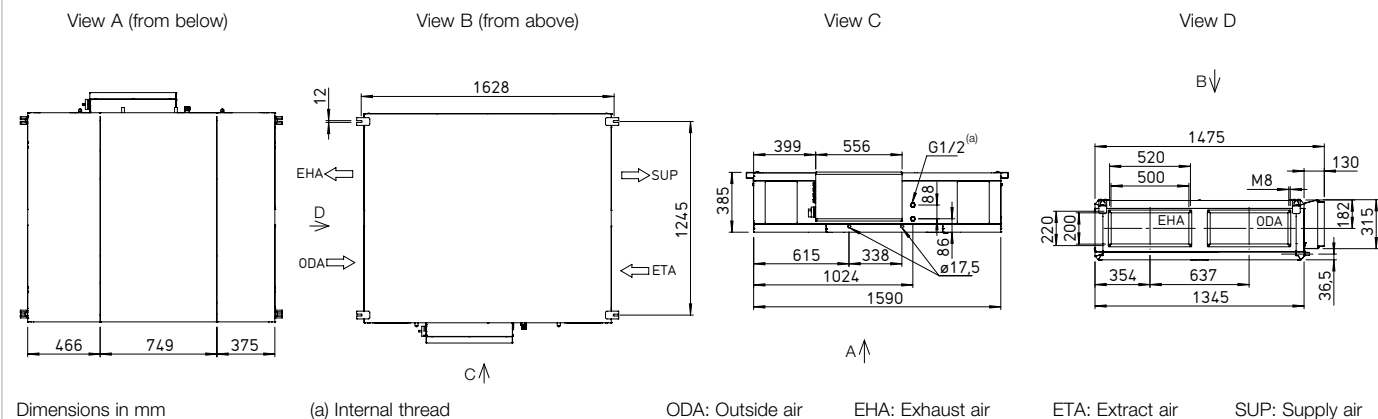
Mechanical data	
Area of application	Inside
Installation position	Ceiling
Maintenance access	Side and underside
Min. air volume	320 m³/h
Max. air volume ERP	900 m³/h (1)
Max. air volume (free blowing)	1,100 m³/h
Weight, unit operational	178 kg
Housing class (DIN 1886)	T2 / TB2 / D2
Filter Outside air	ISO ePM1 55% (F7) (2)
Filter Extract air	ISO ePM10 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
Max. output Fans	2 x 200 W
Max. output Elec. pre-heater	3,600 W
Nominal current	
– Ventilation unit	7 / 7 / 5,5 A (3)
– Electrical auxiliary heater	5.2 / 5.2 / 5.2 A (4)
– max. total	12.2 / 12.2 / 10.7 A
Connection (wiring diagram no.)	1526

(1) = at 200 Pa external pressure loss ERP-compliant
(2) = Other filter classes see optional accessories
(3) = includes electrical pre-heater
(4) = Optional accessory

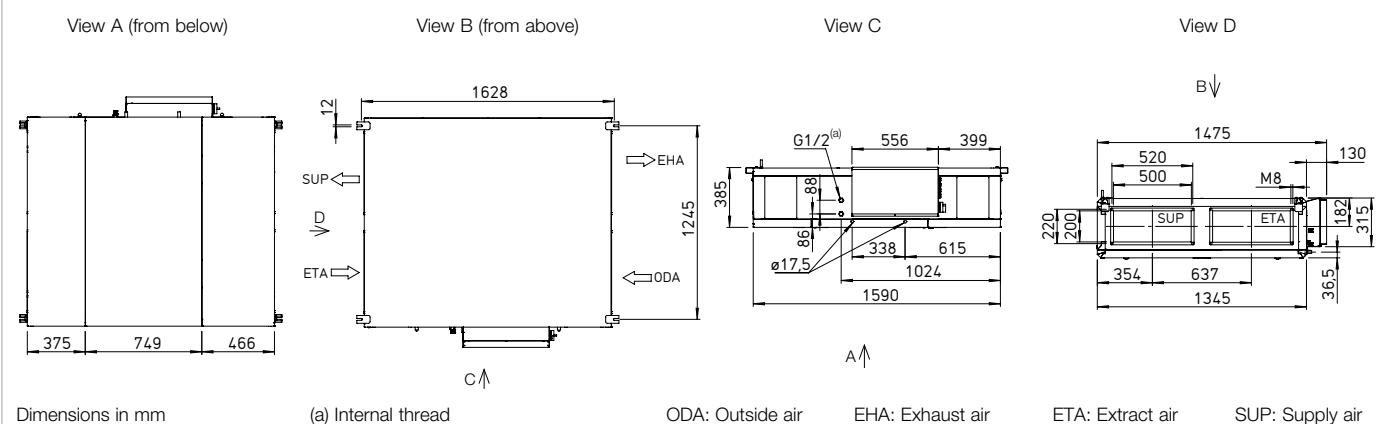
Sound data

Sound power level LWA dB(A) at 200 Pa external pressure			
	350 m³/h	650 m³/h	900 m³/h
Supply air (LWA)	68	71	77
Extract air (LWA)	55	57	62
Outside air (LWA)	55	58	62
Exhaust air (LWA)	68	71	75
Sound pressure level LpA dB(A) of sound radiated from housing			
	350 m³/h	650 m³/h	900 m³/h
Housing rad. 1 m	35	38	44
Housing rad. 3 m	26	28	35
Housing rad. 5 m	21	24	30
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 1000 L



Dimensions AIR1 XC 1000 R



Accessories

Heating and cooling registers

Auxiliary heater

AIR1-ENH XC 1000 Electrical, internal	Ref. no. 40742	Page 94
AIR1-NH WW XC 1000 L Hot water, internal	Ref. no. 40743	Page 96
AIR1-NH WW XC 1000 R Hot water, internal	Ref. no. 40744	Page 96

Hydraulic unit for hot water heating register

WHSB HE 24 V (0 – 10 V)	Ref. no. 08318	Page 96
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Cooling register

AIR1-KR KW XC 1000 L Cold water, external	Ref. no. 40745	Page 98
AIR1-KR KW XC 1000 R Cold water, external	Ref. no. 40746	Page 98
AIR1-CO DX XC 1000 L Change-over, external	Ref. no. 40747	Page 104
AIR1-CO DX XC 1000 R Change-over, external	Ref. no. 40748	Page 104
AIR1-SM DX (1) Control module	Ref. no. 40408	Page 110

Air routing

Multi-leaf dampers

AIR1-JVK XC 1000	Ref. no. 40749	Page 111
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Flexible connector

AIR1-VS 50/20	Ref. no. 40740	Page 113
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Potential equalisation cable

PAK M8	Ref. no. 40812	Page 113
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Adapter square-round

AIR1-ÜS XC 1000 (DN 250)	Ref. no. 40739	Page 112
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Condensate drainage

Condensate pump

AIR1-KP XC 500-1400	Ref. no. 06867	Page 114
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Ball siphon

AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 114
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Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 119
AIR1-BE TOUCH	Ref. no. 06187	Page 119

Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 119
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 119

Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 119
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 119
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 119
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 119

Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 120
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 120
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Duct smoke detector with VdS approval

RMK	Ref. no. 04982	Page 120
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Duct smoke detector with DIBt approval

KRM	Ref. no. 40825	Page 120
KRM-MK Mounting bracket for KRM	Ref. no. 40826	Page 120
KRM-G Protective housing	Ref. no. 40847	Page 120
KRM-MKG Mounting bracket for protective housing	Ref. no. 40848	Page 120

Air filters

Spare air filter and other filter classes

ELF-AIR1 XC 1000/ePM10 50%/96 (M5)	Ref. no. 40737	Page 121
ELF-AIR1 XC 1000/ePM1 55%/96 (F7)	Ref. no. 40738	Page 121
ELF-AIR1 XC 1000/ePM1 80%/96 (F9)	Ref. no. 40750	Page 121

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.