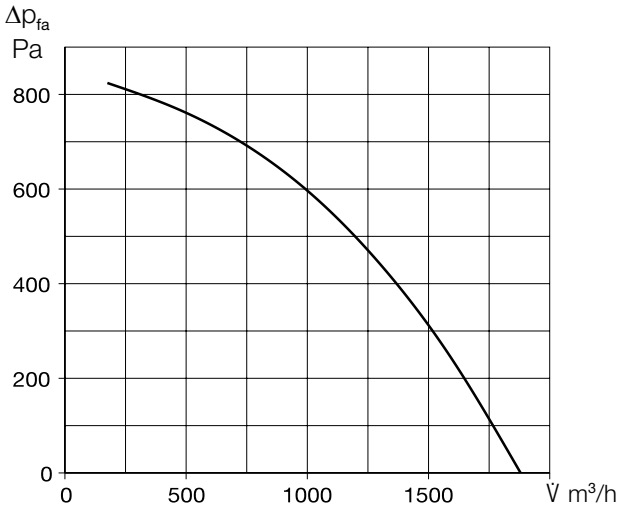
AIR1 XC 1400



Performance curve AIR1 XC 1400



Unit type

	AIR1 XC 1400 L	AIR1 XC 1400 R
Ref. no.	04332	40117
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	330 m³/h
Max. air volume ERP	1,420 m³/h (1)
Max. air volume (free blowing)	1,850 m³/h
Weight, unit operational	200 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
Max. output Fans	2 x 500 W
Max. output Elec. pre-heater	4,500 W
Nominal current	
– Ventilation unit	8.7 / 8.7 / 6.8 A (3)
– Electrical auxiliary heater	6.5 / 6.5 / 6.5 A (4)
– max. total	15.2 / 15.2 / 13.3 A
Connection (wiring diagram no.)	1314

(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 250 Pa external pressure

	400 m³/h	900 m³/h	1,420 m³/h
Supply air (L_{WA})	69	71	79
Extract air (L_{WA})	56	57	63
Outside air (L_{WA})	56	57	64
Exhaust air (L_{WA})	69	72	77

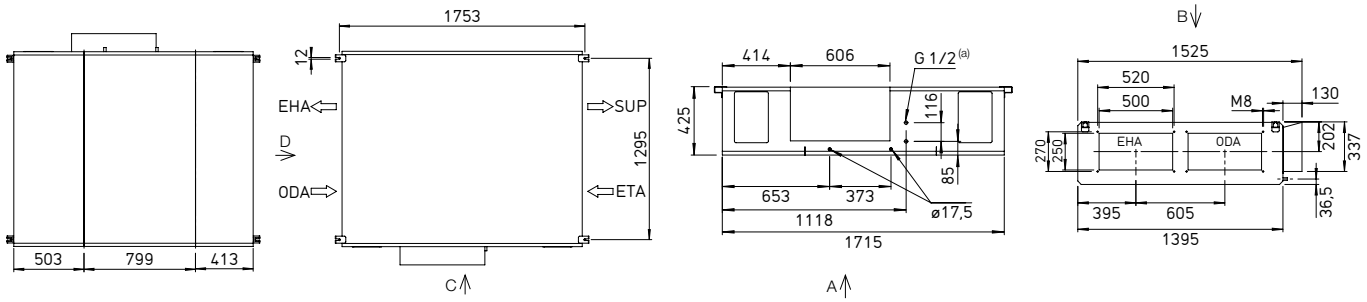
Sound pressure level L_{PA} dB(A) of sound radiated from housing

	400 m³/h	900 m³/h	1,420 m³/h
Housing rad. 1 m	37	38	45
Housing rad. 3 m	28	28	36
Housing rad. 5 m	23	24	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 XC 1400 L

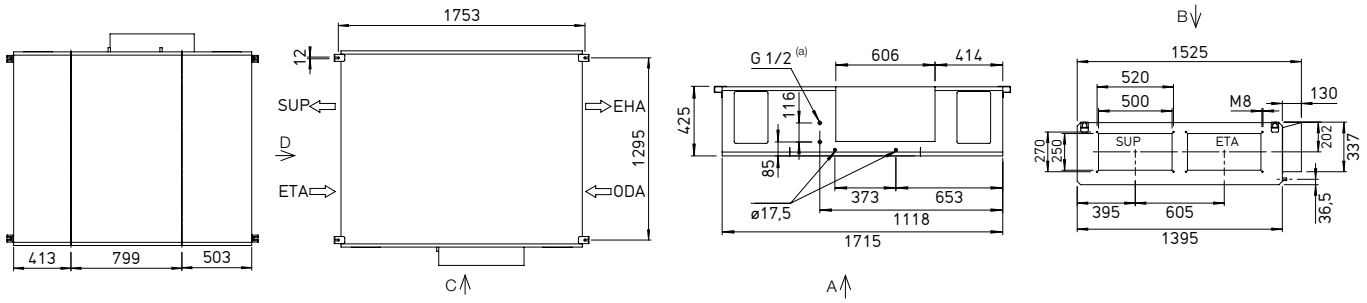
View A (from below) View B (from above) View C View D



Dimensions in mm (a) Internal thread ODA: Outside air EHA: Exhaust air ETA: Extract air SUP: Supply air

Dimensions AIR1 XC 1400 R

View A (from below) View B (from above) View C View D



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 XC 1400 Electrical, internal	Ref. no. 03574	Page 94
AIR1-NH WW XC 1400 L Hot water, internal	Ref. no. 03661	Page 96
AIR1-NH WW XC 1400 R Hot water, internal	Ref. no. 40122	Page 96
Hydraulic unit for hot water heating register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 96
Cooling register		
AIR1-KR KW XC 1400 L Cold water, external	Ref. no. 04187	Page 98
AIR1-KR KW XC 1400 R Cold water, external	Ref. no. 40127	Page 98
AIR1-CO DX XC 1400 L Change-over, external	Ref. no. 40366	Page 104
AIR1-CO DX XC 1400 R Change-over, external	Ref. no. 40371	Page 104
AIR1-SM DX (1) Control module	Ref. no. 40408	Page 110

Air routing		
Multi-leaf dampers		
AIR1-JVK XC 1400	Ref. no. 05856	Page 111
Flexible connector		
AIR1-VS 50/25	Ref. no. 07404	Page 113
Potential equalisation cable		
PAK M8	Ref. no. 40812	Page 113
Adapter square-round		
AIR1-ÜS XC 1400 (DN 315)	Ref. no. 04363	Page 112

Condensate drainage		
Condensate pump		
AIR1-KP XC 500-1400	Ref. no. 06867	Page 114
Ball siphon		
AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 114

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
Extension kit for constant pressure control		
AIR1-CAP	Ref. no. 06756	Page 120
Duct smoke detector with VdS approval		
RMK	Ref. no. 04982	Page 120
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 1400/ePM10 50%/96 (M5)	Ref. no. 02173	Page 121
ELF-AIR1 XC 1400/ePM1 55%/96 (F7)	Ref. no. 02224	Page 121
ELF-AIR1 XC 1400/ePM1 80%/96 (F9)	Ref. no. 02274	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.