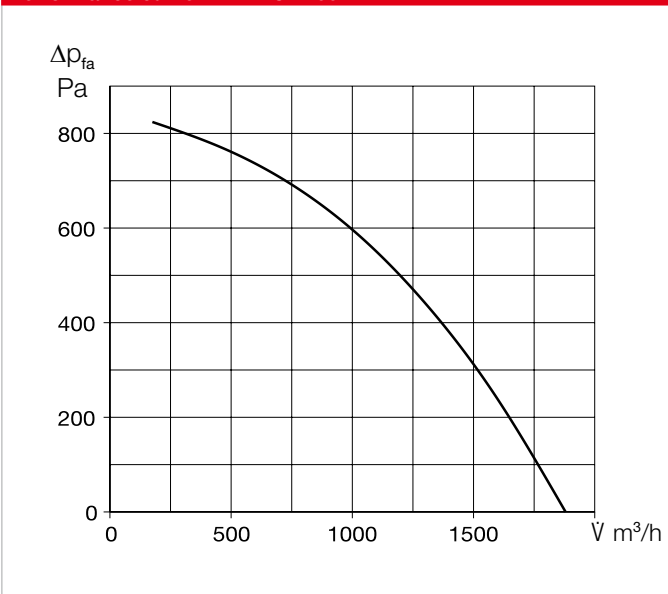


**AIR1 XC 1400**



**Performance curve AIR1 XC 1400**



**Unit type**

	<b>AIR1 XC 1400 L</b>	<b>AIR1 XC 1400 R</b>
Ref. no.	04332	40117
Heat exchanger	Cross-counterflow	Cross-counterflow

**Technical data**

<b>Mechanical data</b>	
Area of application	Inside
Installation position	Ceiling
Maintenance access	Side and underside
Min. air volume	330 m <sup>3</sup> /h
Max. air volume ERP	1,420 m <sup>3</sup> /h <sup>(1)</sup>
Max. air volume (free blowing)	1,850 m <sup>3</sup> /h
Weight, unit operational	200 kg
Housing class (DIN 1886)	T2 / TB2 / D2
Filter Outside air	ISO ePM <sub>1</sub> , 55% (F7) <sup>(2)</sup>
Filter Extract air	ISO ePM <sub>10</sub> 50% (M5) <sup>(2)</sup>
Media temperature (air)	-20 to +50 °C
Ambient temperature (place of installation)	0 to +50 °C
Protection class	IP31
<b>Electrical data</b>	
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 <sup>(3)</sup>
– Electrical auxiliary heater	6.5 / 6.5 / 6.5 A <sup>(4)</sup>
– max. total	15.2 / 15.2 / 13.3 A
Connection (wiring diagram no.)	1314

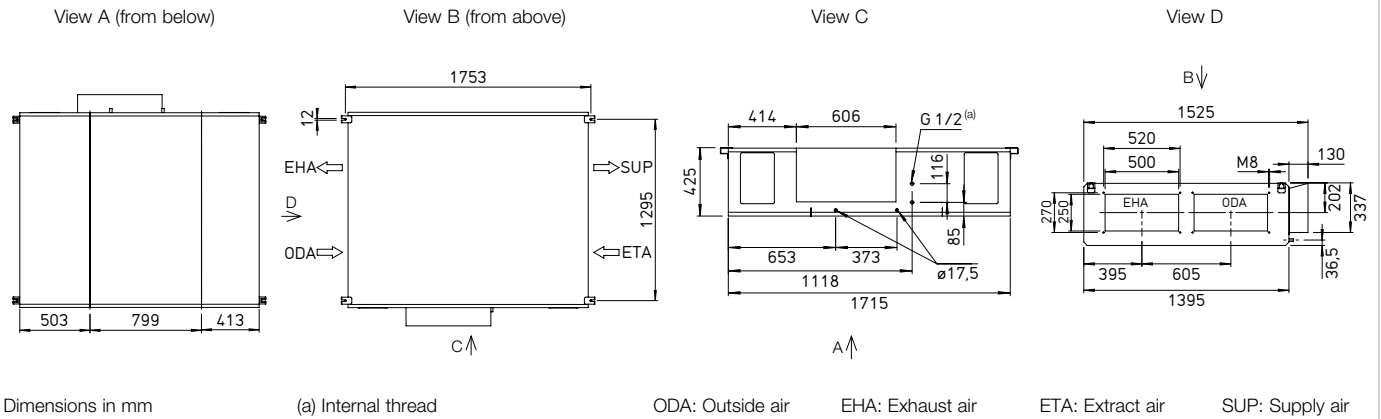
(1) = at 200 Pa external pressure loss ERP-compliant  
 (2) = Other filter classes see optional accessories  
 (3) = includes electrical pre-heater  
 (4) = Optional accessory

**Sound data**

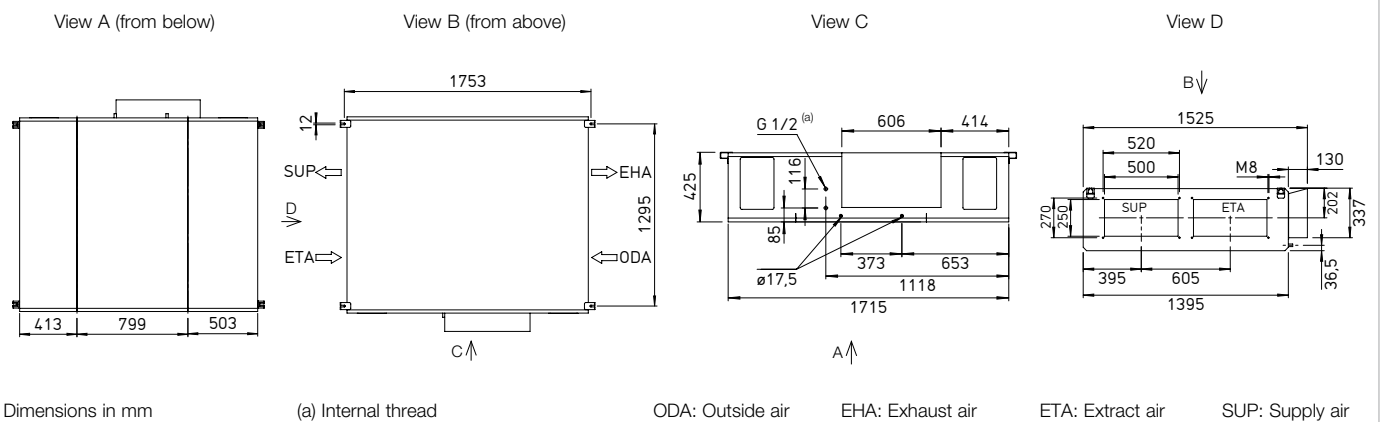
<b>Sound power level L<sub>WA</sub> dB(A) at 250 Pa external pressure</b>			
	400 m <sup>3</sup> /h	900 m <sup>3</sup> /h	1,420 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	68	69	79
Extract air (L <sub>WA</sub> )	57	56	63
Outside air (L <sub>WA</sub> )	57	56	64
Exhaust air (L <sub>WA</sub> )	67	67	77
<b>Sound pressure level L<sub>pA</sub> dB(A) of sound radiated from housing</b>			
	400 m <sup>3</sup> /h	900 m <sup>3</sup> /h	1,420 m <sup>3</sup> /h
Housing rad. 1 m	36	36	45
Housing rad. 3 m	27	26	36
Housing rad. 5 m	22	22	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**



**Dimensions AIR1 XC 1400 R**



**Accessories**

**Heating and cooling registers**

**Auxiliary heater**

<b>AIR1-ENH XC 1400</b> Electrical, internal	Ref. no. 03574	Page 32
<b>AIR1-NH WW XC 1400 L</b> Hot water, internal	Ref. no. 03661	Page 32
<b>AIR1-NH WW XC 1400 R</b> Hot water, internal	Ref. no. 40122	Page 32
<b>Hydraulic unit for hot water heating register</b>		
<b>WHS HE 24 V (0 – 10 V)</b>	Ref. no. 08318	Page 32
<b>Cooling register</b>		
<b>AIR1-KR KW XC 1400 L</b> Cold water, external	Ref. no. 04187	Page 33
<b>AIR1-KR KW XC 1400 R</b> Cold water, external	Ref. no. 40127	Page 33
<b>AIR1-CO DX XC 1400 L</b> Change-over, external	Ref. no. 40366	Page 34
<b>AIR1-CO DX XC 1400 R</b> Change-over, external	Ref. no. 40371	Page 34
<b>AIR1-SM DX <sup>(1)</sup></b> Control module	Ref. no. 40408	Page 35

**Air routing**

**Multi-leaf dampers**

<b>AIR1-JVK XC 1400</b>	Ref. no. 05856	Page 35
<b>Flexible connector</b>		
<b>AIR1-VS 50/25</b>	Ref. no. 07404	Page 36
<b>Adapter square-round</b>		
<b>AIR1-ÜS XC 1400</b>	Ref. no. 04363	Page 36

**Condensate drainage**

**Condensate pump**

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

**Controls**

**Controllers**

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

**Sensors**

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

**Signal converter for sensors**

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

**Air filters**

**Spare air filter and other filter classes**

<b>ELF-AIR1 XC 1400/ePM10 50%/96 (M5)</b>	Ref. no. 02173	Page 39
<b>ELF-AIR1 XC 1400/ePM1 55%/96 (F7)</b>	Ref. no. 02224	Page 39
<b>ELF-AIR1 XC 1400/ePM1 80%/96 (F9)</b>	Ref. no. 02274	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.