

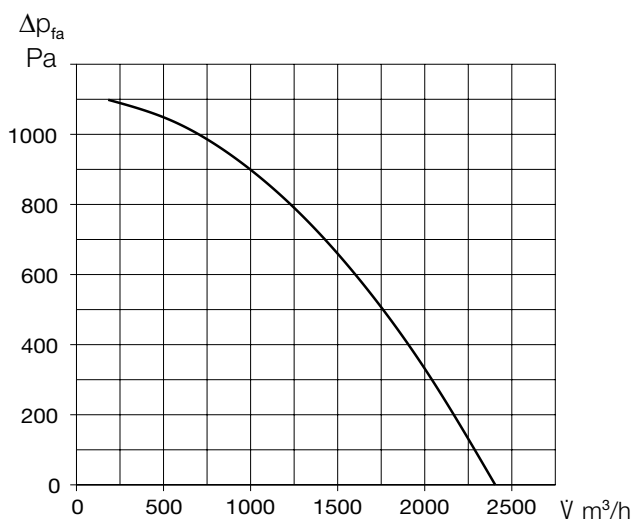
**AIR1 XVP 1800**



**NEW**



**Performance curve AIR1 XVP 1800**



**Unit type**

	<b>AIR1 XVP 1800</b>
Ref. no.	40614
Heat exchanger	Cross-counterflow

**Technical data**

**Mechanical data**

Area of application	Inside
Installation position	standing
Maintenance access	both sides
Min. air volume	550 m <sup>3</sup> /h
Max. air volume ERP	1,510 m <sup>3</sup> /h <sup>(1)</sup>
Max. air volume (free blowing)	2,400 m <sup>3</sup> /h
Weight, unit operational	357 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

**Electrical data**

Central building control system	BACnet, Modbus TCP/IP
Voltage / Frequency	400 V 3N ~, 50 Hz
Max. output Fans	2 x 780 W
Max. output Elec. pre-/post-heater	6,510 / 6,510 W <sup>(3)</sup>
Nominal current	
– Ventilation unit	3.4 / 3.4 / 0.3 A
– Electrical pre-heater	9.4 / 9.4 / 9.4 A <sup>(3)</sup>
– Electrical auxiliary heater	9.4 / 9.4 / 9.4 A <sup>(3)</sup>
– max. total	22.2 / 22.2 / 19.1 A
Connection (wiring diagram no.)	1508

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

(2) = Other filter classes see optional accessories

(3) = Optional accessory

**Sound data**

**Sound power level L<sub>WA</sub> dB(A) at 250 Pa external pressure**

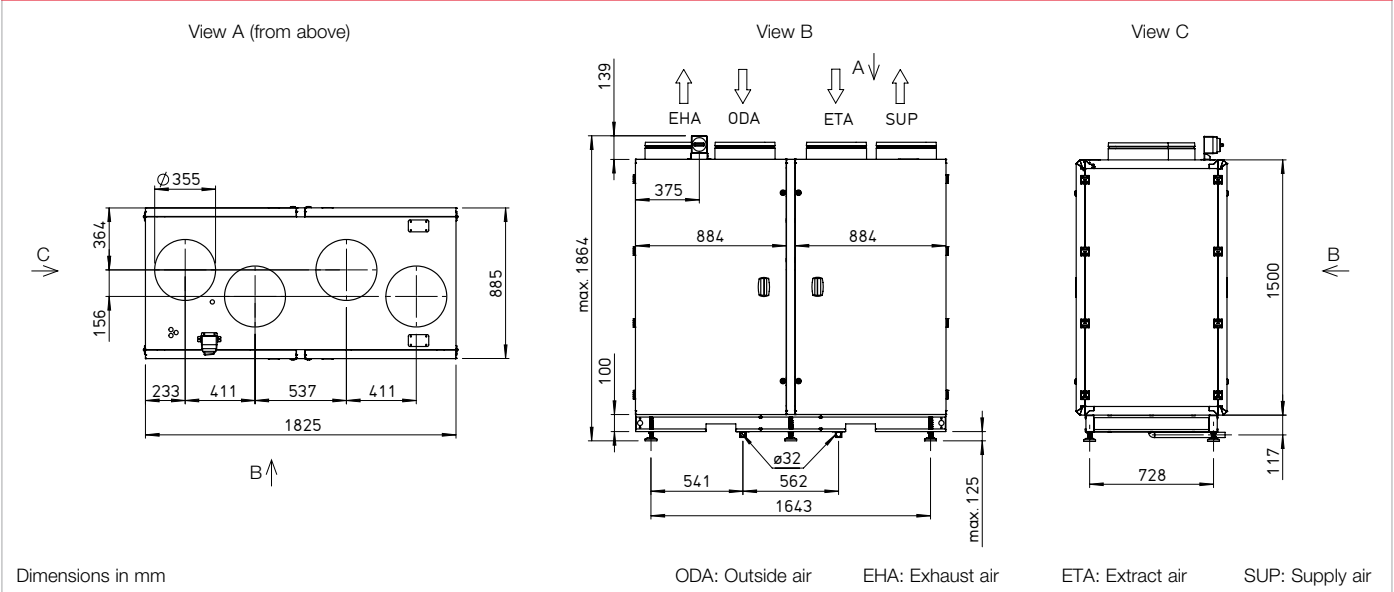
	650 m <sup>3</sup> /h	1,200 m <sup>3</sup> /h	1,510 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	72	75	78
Extract air (L <sub>WA</sub> )	61	58	60
Outside air (L <sub>WA</sub> )	61	58	60
Exhaust air (L <sub>WA</sub> )	71	73	77

**Sound pressure level L<sub>pA</sub> dB(A) of sound radiated from housing**

	650 m <sup>3</sup> /h	1,200 m <sup>3</sup> /h	1,510 m <sup>3</sup> /h
Housing rad. 1 m	42	43	45
Housing rad. 3 m	33	33	36
Housing rad. 5 m	28	29	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 XVP 1800**



**Accessories**

**Heating and cooling registers**

Pre-heater		
<b>AIR1-EVH XVP 1800</b> Electrical, internal	Ref. no. 40489	Page 54
Auxiliary heater		
<b>AIR1-ENH XVP 1800</b> Electrical, internal	Ref. no. 40490	Page 54
<b>AIR1-NH WW XVP 1800</b> Hot water, internal	Ref. no. 40491	Page 55
Hydraulic unit for hot water heater register		
<b>WHSH HE 24 V (0 – 10 V)</b>	Ref. no. 08318	Page 55
Cooling register		
<b>AIR1-KR KW XVP 1800 L (1)</b> Cold water, external	Ref. no. 40492	Page 56
<b>AIR1-KR KW XVP 1800 R (1)</b> Cold water, external	Ref. no. 40493	Page 56
<b>AIR1-CO DX XVP 1800 L (1)</b> Change-over, external	Ref. no. 40494	Page 57
<b>AIR1-CO DX XVP 1800 R (1)</b> Change-over, external	Ref. no. 40495	Page 57
Cooling register accessories		
<b>AIR1-KS D</b> for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 59
Air routing		
Motorised duct shutter		
<b>RVMD 355/24V</b>	Ref. no. 40248	Page 58

**Condensate drainage**

Ball siphon		
<b>AIR1-KS B</b> for use with floor-mounted units and cooling register	Ref. no. 07169	Page 59

**Controls**

Controllers		
<b>AIR1-BE ECO</b>	Ref. no. 06186	Page 60
<b>AIR1-BE TOUCH 2</b>	Ref. no. 40751	Page 60
Controller connection cable		
<b>AIR1-SL 4/10</b> 10 m	Ref. no. 07073	Page 60
<b>AIR1-SL 4/20</b> 20 m	Ref. no. 07121	Page 60
Sensors		
<b>AIR1/KWL-VOC 0-10V</b> Mixed gas sensor	Ref. no. 20250	Page 60
<b>AIR1/KWL-CO2 0-10V</b> Carbon dioxide sensor	Ref. no. 20251	Page 60
<b>AIR1/KWL-FTF 0-10V</b> Humidity-temperature sensor	Ref. no. 20252	Page 60
<b>AIR1-CO2 K</b> Carbon dioxide sensor duct	Ref. no. 07124	Page 60
Signal converter for sensors		
<b>AIR1-SK</b>	Ref. no. 06019	Page 61
Extension kit for constant pressure control		
<b>AIR1-CAP</b>	Ref. no. 06756	Page 60

**Air filters**

Spare air filter and other filter classes		
<b>ELF-AIR1 XVP 1800 ePM10 50%/48 (M5)</b>	Ref. no. 40523	Page 61
<b>ELF-AIR1 XVP 1800 ePM10 50%/96 (M5)</b>	Ref. no. 40522	Page 61
<b>ELF-AIR1 XVP 1800 ePM1 55%/96 (F7)</b>	Ref. no. 40524	Page 61
<b>ELF-AIR1 XVP 1800 ePM1 80%/96 (F9)</b>	Ref. no. 40525	Page 61

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.