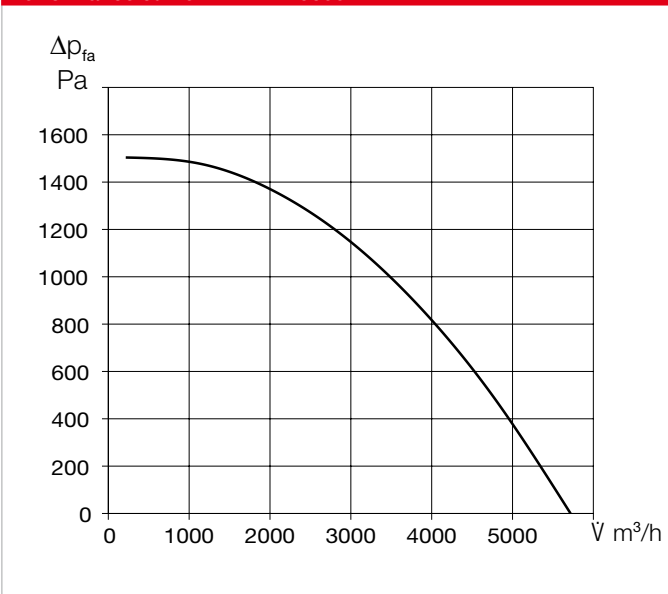


**AIR1 XVP 3500**



**Performance curve AIR1 XVP 3500**



**Unit type**

	<b>AIR1 XVP 3500</b>
Ref. no.	40616
Heat exchanger	Cross-counterflow

**Technical data**

Mechanical data	
Area of application	Inside
Installation position	standing
Maintenance access	both sides
Min. air volume	1,000 m <sup>3</sup> /h
Max. air volume ERP	3,100 m <sup>3</sup> /h <sup>(1)</sup>
Max. air volume (free blowing)	5,500 m <sup>3</sup> /h
Weight, unit operational	512 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 (operation)	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 2,500 W
Max. output Elec. pre-/post-heater	12,650 / 12,650 W <sup>(3)</sup>
Nominal current	
– Ventilation unit	7.6 / 7.6 / 8 A
– Electrical pre-heater	18.3 / 18.3 / 18.3 A <sup>(3)</sup>
– Electrical auxiliary heater	18.3 / 18.3 / 18.3 A <sup>(3)</sup>
– max. total	44.2 / 44.2 / 44.6 A
Connection (wiring diagram no.)	1510

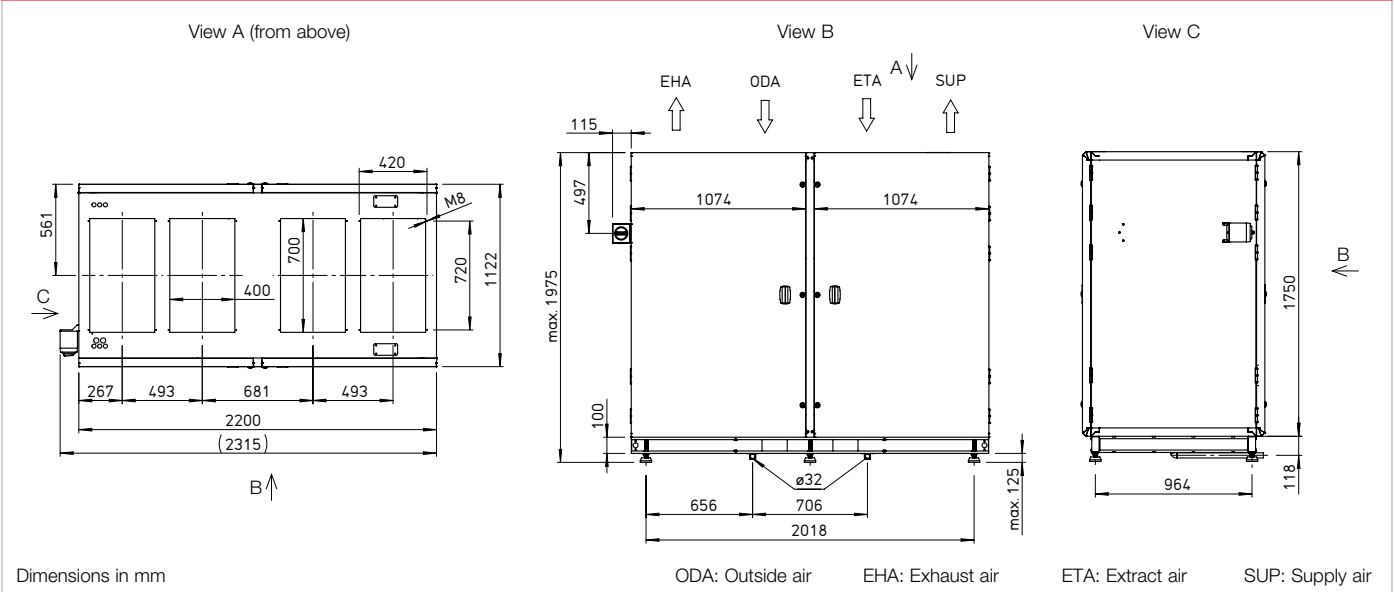
(1) = at 200 Pa external pressure loss ERP-compliant  
(2) = Other filter classes see optional accessories  
(3) = Optional accessory

**Sound data**

Sound power level L <sub>WA</sub> dB(A) at 250 Pa external pressure			
	1,250 m <sup>3</sup> /h	2,200 m <sup>3</sup> /h	3,100 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	69	79	89
Extract air (L <sub>WA</sub> )	57	63	69
Outside air (L <sub>WA</sub> )	65	68	68
Exhaust air (L <sub>WA</sub> )	66	74	81
Sound pressure level L <sub>pA</sub> dB(A) of sound radiated from housing			
	1,250 m <sup>3</sup> /h	2,200 m <sup>3</sup> /h	3,100 m <sup>3</sup> /h
Housing rad. 1 m	45	58	66
Housing rad. 3 m	36	48	56
Housing rad. 5 m	31	44	52

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 3500**



Dimensions in mm

ODA: Outside air EHA: Exhaust air

ETA: Extract air

SUP: Supply air

**Accessories**

**Heating and cooling registers**

<b>Pre-heater</b>		
<b>AIR1-EVH XVP 3500</b> Electrical, internal	Ref. no. 40507	Page 52
<b>Auxiliary heater</b>		
<b>AIR1-ENH XVP 3500</b> Electrical, internal	Ref. no. 40508	Page 52
<b>AIR1-NH WW XVP 3500</b> Hot water, internal	Ref. no. 40509	Page 53
<b>Hydraulic unit for hot water heater register</b>		
<b>WHSB HE 24 V (0 – 10 V)</b>	Ref. no. 08318	Page 53
<b>Cooling register</b>		
<b>AIR1-KR KW XVP 3500 L <sup>(1)</sup></b> Cold water, external	Ref. no. 40510	Page 54
<b>AIR1-KR KW XVP 3500 R <sup>(1)</sup></b> Cold water, external	Ref. no. 40511	Page 54
<b>AIR1-CO DX XVP 3500 L <sup>(1)</sup></b> Change-over, external	Ref. no. 40512	Page 55
<b>AIR1-CO DX XVP 3500 R <sup>(1)</sup></b> Change-over, external	Ref. no. 40513	Page 55
<b>Cooling register accessories</b>		
<b>AIR1-KS D</b> for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 57

**Air routing**

<b>Multi-leaf damper</b>		
<b>AIR1-JVK XC 3200/XVP 3500</b>	Ref. no. 06003	Page 56
<b>Flexible connector</b>		
<b>AIR1-VS 70/40</b>	Ref. no. 07408	Page 57
<b>Square-round adapter</b>		
<b>AIR1-ÜS XC 3200/XVP 3500</b>	Ref. no. 04365	Page 57

**Condensate drainage**

<b>Ball siphon</b>		
<b>AIR1-KS B</b> for use with floor-mounted units and cooling register	Ref. no. 07169	Page 57

**Controls**

<b>Controllers</b>		
<b>AIR1-BE ECO</b>	Ref. no. 06186	Page 58
<b>AIR1-BE TOUCH 2</b>	Ref. no. 40751	Page 58
<b>Controller connection cable</b>		
<b>AIR1-SL 4/10</b> 10 m	Ref. no. 07073	Page 58
<b>AIR1-SL 4/20</b> 20 m	Ref. no. 07121	Page 58
<b>Sensors</b>		
<b>AIR1/KWL-VOC 0-10V</b> Mixed gas sensor	Ref. no. 20250	Page 58
<b>AIR1/KWL-CO2 0-10V</b> Carbon dioxide sensor	Ref. no. 20251	Page 58
<b>AIR1/KWL-FTF 0-10V</b> Humidity-temperature sensor	Ref. no. 20252	Page 58
<b>AIR1-CO2 K</b> Carbon dioxide sensor duct	Ref. no. 07124	Page 58
<b>Signal converter for sensors</b>		
<b>AIR1-SK</b>	Ref. no. 06019	Page 59
<b>Extension kit for constant pressure control</b>		
<b>AIR1-CAP</b>	Ref. no. 06756	Page 58

**Air filters**

<b>Spare air filter and other filter classes</b>		
<b>ELF-AIR1 XVP 3500 ePM10 50%/48 (M5)</b>	Ref. no. 40531	Page 59
<b>ELF-AIR1 XVP 3500 ePM10 50%/96 (M5)</b>	Ref. no. 40530	Page 59
<b>ELF-AIR1 XVP 3500 ePM1 55%/96 (F7)</b>	Ref. no. 40532	Page 59
<b>ELF-AIR1 XVP 3500 ePM1 80%/96 (F9)</b>	Ref. no. 40533	Page 59

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.