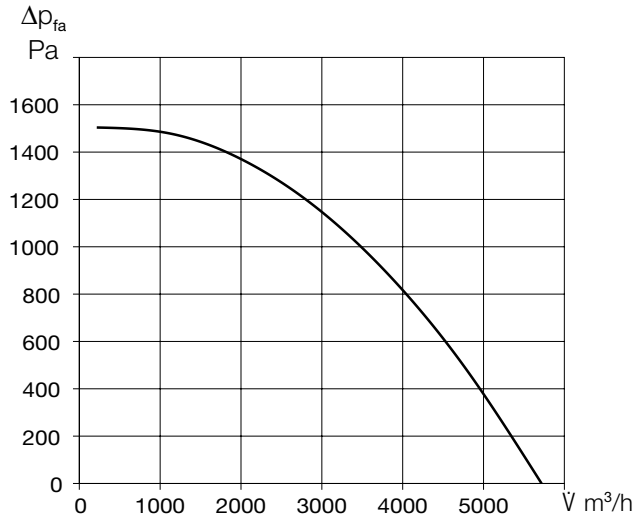
AIR1 XVP 3500



Performance curve AIR1 XVP 3500



Unit type	
	AIR1 XVP 3500
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 m³/h
Max. air volume ERP	3,200 m³/h (1)
Max. air volume (free blowing)	5,500 m³/h
Weight, unit operational	512 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 2,500 W
Max. output Elec. pre-/post-heater	12,650 / 12,650 W (3)
Nominal current	
– Ventilation unit	7.6 / 7.6 / 8 A
– Electrical pre-heater	18.3 / 18.3 / 18.3 A (3)
– Electrical auxiliary heater	18.3 / 18.3 / 18.3 A (3)
– max. total	44.2 / 44.2 / 44.6 A
Connection (wiring diagram no.)	1510

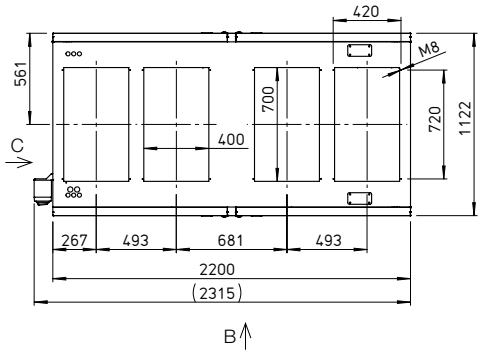
(1) = at 250 Pa external pressure loss ERP-compliant
(2) = Other filter classes see optional accessories
(3) = Optional accessory

Sound data			
Sound power level L_{WA} dB(A) at 250 Pa external pressure			
	1,250 m³/h	2,200 m³/h	3,200 m³/h
Supply air (L_{WA})	71	73	77
Extract air (L_{WA})	63	55	58
Outside air (L_{WA})	62	55	57
Exhaust air (L_{WA})	73	75	79
Sound pressure level L_{PA} dB(A) of sound radiated from housing			
	1,250 m³/h	2,200 m³/h	3,200 m³/h
Housing rad. 1 m	39	37	40
Housing rad. 3 m	29	28	31
Housing rad. 5 m	25	23	26

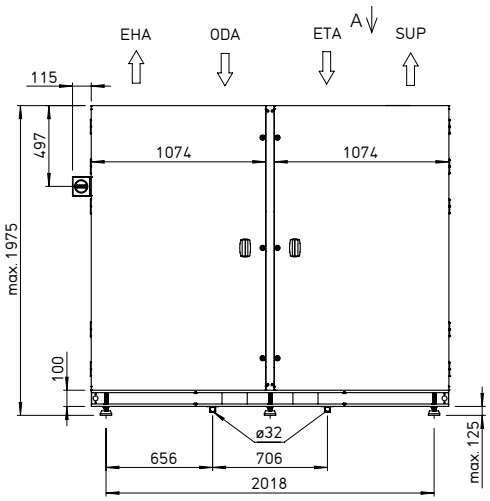
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1, 3 and 5 m.

Dimensions AIR1 XVP 3500

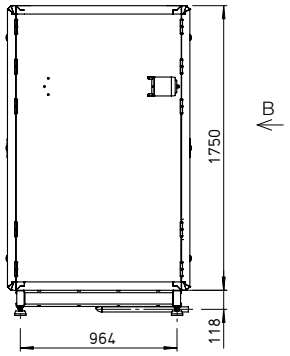
View A (from above)



View B



View C



Dimensions in mm

ODA: Outside air EHA: Exhaust air ETA: Extract air SUP: Supply air

Accessories

Heating and cooling registers		
Pre-heater		
AIR1-EVH XVP 3500 Electrical, internal	Ref. no. 40507	Page 54
Auxiliary heater		
AIR1-ENH XVP 3500 Electrical, internal	Ref. no. 40508	Page 54
AIR1-NH WW XVP 3500 Hot water, internal	Ref. no. 40509	Page 55
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 55
Cooling register		
AIR1-KR KW XVP 3500 L (1) Cold water, external	Ref. no. 40510	Page 56
AIR1-KR KW XVP 3500 R (1) Cold water, external	Ref. no. 40511	Page 56
AIR1-CO DX XVP 3500 L (1) Change-over, external	Ref. no. 40512	Page 57
AIR1-CO DX XVP 3500 R (1) Change-over, external	Ref. no. 40513	Page 57
Cooling register accessories		
AIR1-KS D for use with ceiling mounted units and cooling register	Ref. no. 07170	Page 59

Air routing		
Multi-leaf damper		
AIR1-JVK XC 3200/XVP 3500	Ref. no. 06003	Page 58
Flexible connector		
AIR1-VS 70/40	Ref. no. 07408	Page 59
Square-round adapter		
AIR1-ÜS XC 3200/XVP 3500	Ref. no. 04365	Page 59

Condensate drainage		
Ball siphon		
AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 59

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

Air filters		
Spare air filter and other filter classes		
ELF-AIR1 XVP 3500 ePM10 50%/48 (M5)	Ref. no. 40531	Page 61
ELF-AIR1 XVP 3500 ePM10 50%/96 (M5)	Ref. no. 40530	Page 61
ELF-AIR1 XVP 3500 ePM1 55%/96 (F7)	Ref. no. 40532	Page 61
ELF-AIR1 XVP 3500 ePM1 80%/96 (F9)	Ref. no. 40533	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.