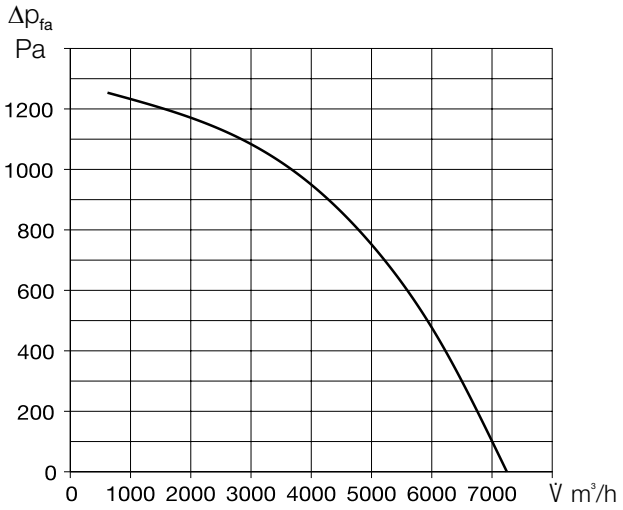
AIR1 XH 5500



Separable casing design

Fig. shows accessories

Performance curve AIR1 XH 5500



Unit type

	AIR1 XH 5500
Ref. no.	04340
Heat exchanger	Cross-counterflow

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	standing
Maintenance access	Side, both sides
Min. air volume	845 m³/h
Max. air volume ERP	5,400 m³/h (1)
Max. air volume (free blowing)	7,200 m³/h
Weight, unit operational	873 kg
Delivery unit	3-part
Unit segments	3
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 +40 °C
Ambient temperature (place of installation)	-20 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 2,400 W
Max. output elec. pre-heater	17,700 W
Nominal current	
– Ventilation unit	32.9 / 32.9 / 33.7 A (3)
– Electrical auxiliary heater	25.5 / 25.5 / 25.5 A (4)
– max. total	58.4 / 58.4 / 59.2 A
Connection (wiring diagram no.)	1331

(1) = at 400 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories
(3) = includes electrical pre-heater
(4) = Optional accessories

Sound data

Sound power level L_{WA} dB(A) at 400 Pa external pressure

	1,800 m³/h	3,800 m³/h	5,400 m³/h
Supply air (L_{WA})	77	79	84
Extract air (L_{WA})	63	62	67
Outside air (L_{WA})	67	61	62
Exhaust air (L_{WA})	76	77	83

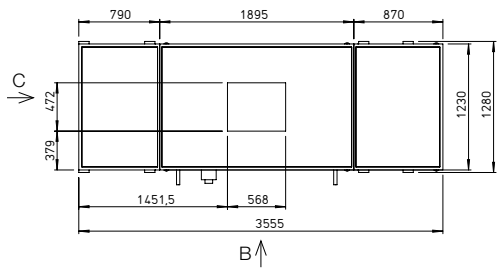
Sound pressure level L_{PA} dB(A) of sound radiated from housing

	1,800 m³/h	3,800 m³/h	5,400 m³/h
Housing rad. 1 m	46	45	50
Housing rad. 3 m	37	36	41
Housing rad. 5 m	32	31	36

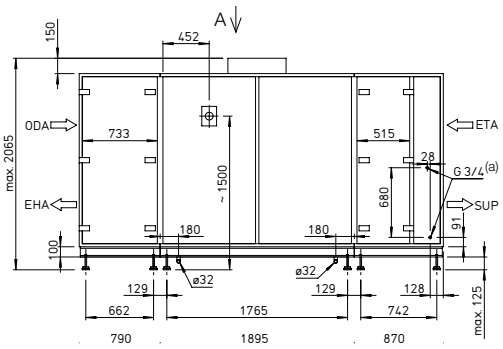
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1, 3 and 5 m.

Dimensions AIR1 XH 5500

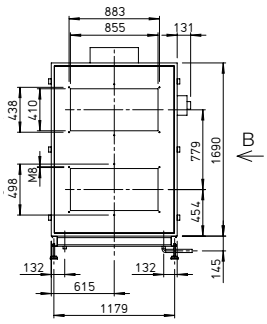
View A (from above)



View B



View C



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

Accessories

Heating and cooling registers		
Auxiliary heater		
AIR1-ENH XH 5500 Electrical, internal	Ref. no. 03595	Page 94
AIR1-NH WW XH 5500 Hot water, internal	Ref. no. 03687	Page 96
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 96
Cooling register		
AIR1-KR KW XH 5500 L (1) Cold water, external	Ref. no. 03932	Page 100
AIR1-KR KW XH 5500 R (1) Cold water, external	Ref. no. 04279	Page 100
AIR1-CO DX XH 5500 L (1) Change-over, external	Ref. no. 04410	Page 106
AIR1-CO DX XH 5500 R (1) Change-over, external	Ref. no. 04883	Page 106
AIR1-SM DX (2) Control module	Ref. no. 40408	Page 110

Air routing		
Multi-leaf damper		
AIR1-JVK XH 5500/RH 5000-6000	Ref. no. 06010	Page 111
Recirculation kit		
AIR1-ULK XH 5500	Ref. no. 06027	Page 110
Flexible connector		
AIR1-VS 85/41	Ref. no. 04375	Page 113
Potential equalisation cable		
PAK M8	Ref. no. 40812	Page 113
Adapter square-round		
AIR1-ÜS XH 5500/RH 5000-6000 (DN 630)	Ref. no. 04370	Page 112

Condensate drainage		
Ball siphon		
AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 114

External installation		
Cover for external installation		
AIR1-AAD XH 5500 Weather protection cover for the unit	Ref. no. 06349	Page 116
AIR1-AAD KR KW + DX XH 5500 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06464	Page 118
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 114
Hoods		
AIR1-AAHA XH 5500/RH 5000-6000 Intake hood outside air	Ref. no. 06496	Page 115
AIR1-AAHF XH 5500/RH 5000-6000 Discharge hood exhaust air	Ref. no. 06648	Page 115

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 XH 5500/ePM10 50%/48 (M5)	Ref. no. 02186	Page 122
ELF-AIR1 XH 5500/ePM10 50%/96 (M5)	Ref. no. 02208	Page 122
ELF-AIR1 XH 5500/ePM1 55%/96 (F7)	Ref. no. 02233	Page 122
ELF-AIR1 XH 5500/ePM1 80%/96 (F9)	Ref. no. 02293	Page 122
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.
(2) = 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.