

AIR1 XH 5500

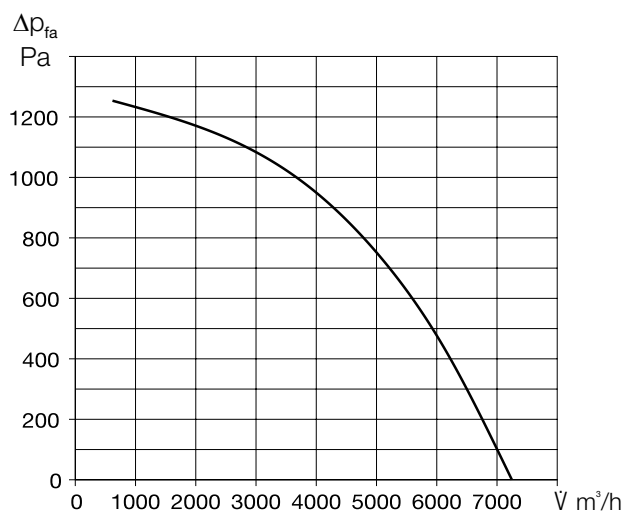


Separable casing design



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 m ³ /h
Max. air volume ERP	5,400 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	7,200 m ³ /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 (operation)	-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 250 Pa external pressure loss ERP-compliant

(2) = other filter classes see optional accessories

(3) = includes electrical pre-heater

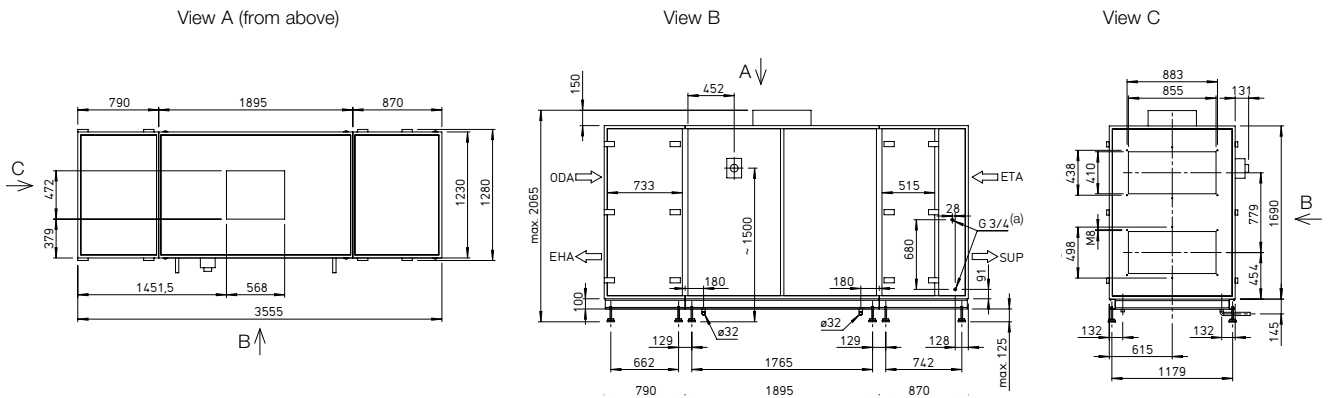
(4) = Optional accessories

Sound data

Sound power level L _{WA} dB(A) at 400 Pa external pressure			
	1,800 m ³ /h	3,800 m ³ /h	5,400 m ³ /h
Supply air (L _{WA})	77	79	84
Extract air (L _{WA})	63	62	67
Outside air (L _{WA})	68	61	62
Exhaust air (L _{WA})	76	78	83
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	1,800 m ³ /h	3,800 m ³ /h	5,400 m ³ /h
Housing rad. 1 m	46	46	50
Housing rad. 3 m	37	36	40
Housing rad. 5 m	32	32	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



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 88
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AIR1-NH WW XH 5500 Hot water, internal	Ref. no. 03687	Page 89
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Hydraulic unit for hot water heater register

WHSB HE 24 V (0 – 10 V)	Ref. no. 08318	Page 89
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Cooling register

AIR1-KR KW XH 5500 L ⁽¹⁾ Cold water, external	Ref. no. 03932	Page 90
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AIR1-KR KW XH 5500 R ⁽¹⁾ Cold water, external	Ref. no. 04279	Page 90
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AIR1-CO DX XH 5500 L ⁽¹⁾ Change-over, external	Ref. no. 04410	Page 92
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AIR1-CO DX XH 5500 R ⁽¹⁾ Change-over, external	Ref. no. 04883	Page 92
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AIR1-SM DX ⁽²⁾ Control module	Ref. no. 40408	Page 94
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■ Air routing

Multi-leaf damper

AIR1-JVK XH 5500/RH 5000-6000	Ref. no. 06010	Page 94
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Recirculation kit

AIR1-ULK XH 5500	Ref. no. 06027	Page 95
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Flexible connector

AIR1-VS 85/41	Ref. no. 04375	Page 95
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Adapter square-round

AIR1-ÜS XH 5500/RH 5000-6000	Ref. no. 04370	Page 96
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■ Condensate drainage

Ball siphon

AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 96
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■ External installation

Cover for external installation

AIR1-AAD XH 5500 Weather protection cover for the unit	Ref. no. 06349	Page 97
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AIR1-AAD KR KW + DX XH 5500 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06464	Page 98
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 99
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Hoods

AIR1-AAHA XH 5500/RH 5000-6000 Intake hood outside air	Ref. no. 06496	Page 99
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AIR1-AAHF XH 5500/RH 5000-6000 Discharge hood exhaust air	Ref. no. 06648	Page 100
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■ Controls

Controllers

AIR1-BE ECO	Ref. no. 06186	Page 101
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AIR1-BE TOUCH	Ref. no. 06187	Page 101
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Controller connection cable

AIR1-SL 4/10 10 m	Ref. no. 07073	Page 101
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AIR1-SL 4/20 20 m	Ref. no. 07121	Page 101
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Sensors

AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 101
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AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 101
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AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 101
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AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 102
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Signal converter for sensors

AIR1-SK	Ref. no. 06019	Page 102
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Extension kit for constant pressure control

AIR1-CAP	Ref. no. 06756	Page 102
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■ Air filters

Spare air filter and other filter classes

ELF-AIR1 XH 5500/ePM10 50%/48 (M5)	Ref. no. 02186	Page 103
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ELF-AIR1 XH 5500/ePM10 50%/96 (M5)	Ref. no. 02208	Page 103
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ELF-AIR1 XH 5500/ePM1 55%/96 (F7)	Ref. no. 02233	Page 103
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ELF-AIR1 XH 5500/ePM1 80%/96 (F9)	Ref. no. 02293	Page 103
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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.