

AIR1 XH 3500

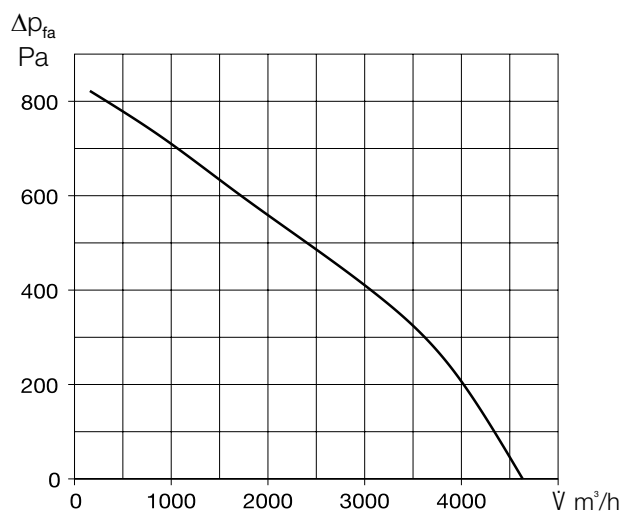


Separable casing design



Fig. shows accessories

Performance curve AIR1 XH 3500



Unit type

	AIR1 XH 3500
Ref. no.	04338
Heat exchanger	Cross-counterflow

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	standing
Maintenance access	Side, both sides
Min. air volume	825 m ³ /h
Max. air volume ERP	3,150 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	4,650 m ³ /h
Weight, unit operational	687 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 +50 °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 1,500 W
Max. output elec. pre-heater	9,600 W
Nominal current	
– Ventilation unit	18.5 / 18.5 / 19.2 A ⁽³⁾
– Electrical auxiliary heater	13.9 / 13.9 / 13.9 A ⁽⁴⁾
– max. total	32.4 / 32.4 / 33.1 A
Connection (wiring diagram no.)	1329

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

(2) = other filter classes see optional accessories

(3) = includes electrical pre-heater

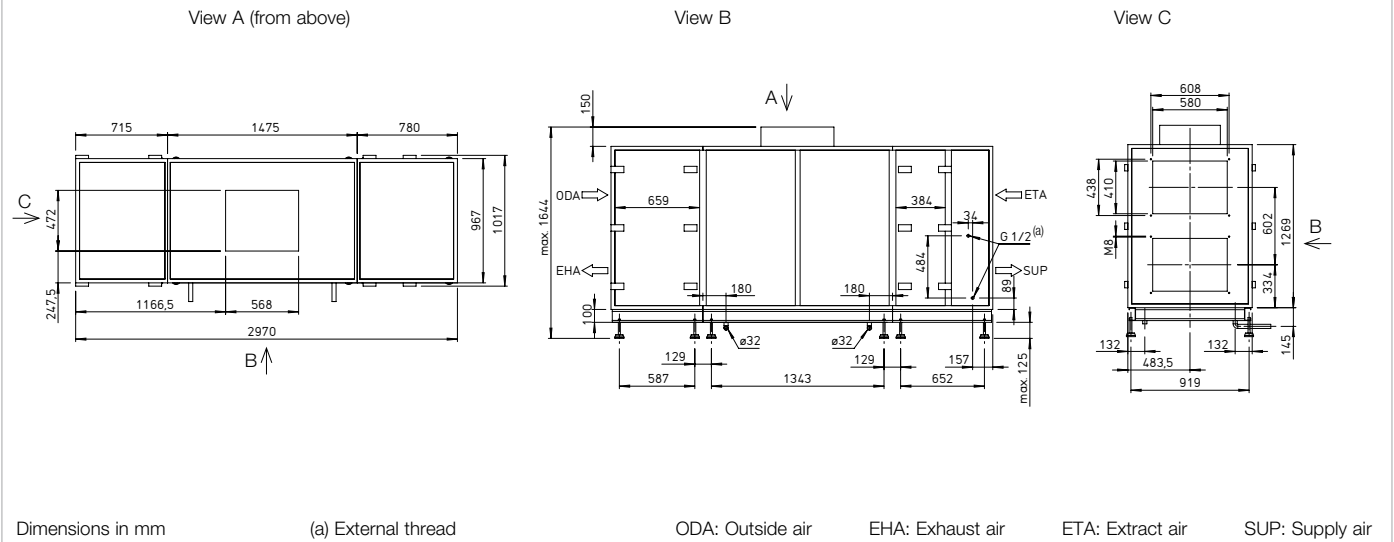
(4) = Optional accessories

Sound data

Sound power level L _{WA} dB(A) at 250 Pa external pressure			
	1,000 m ³ /h	2,200 m ³ /h	3,150 m ³ /h
Supply air (L _{WA})	80	82	85
Extract air (L _{WA})	66	67	68
Outside air (L _{WA})	68	69	67
Exhaust air (L _{WA})	79	81	83
Sound pressure level L _{pA} dB(A) of sound radiated from housing			
	1,000 m ³ /h	2,200 m ³ /h	3,150 m ³ /h
Housing rad. 1 m	48	50	51
Housing rad. 3 m	38	40	41
Housing rad. 5 m	34	36	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 3500



Accessories

Heating and cooling registers

Auxiliary heater

AIR1-ENH XH 3500 Electrical, internal	Ref. no. 03592	Page 88
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AIR1-NH WW XH 3500 Hot water, internal	Ref. no. 03683	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 3500 L ⁽¹⁾ Cold water, external	Ref. no. 03910	Page 90
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AIR1-KR KW XH 3500 R ⁽¹⁾ Cold water, external	Ref. no. 04268	Page 90
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AIR1-CO DX XH 3500 L ⁽¹⁾ Change-over, external	Ref. no. 04408	Page 92
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AIR1-CO DX XH 3500 R ⁽¹⁾ Change-over, external	Ref. no. 04878	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 3500-4500/RH 3000	Ref. no. 06009	Page 94
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Recirculation kit

AIR1-ULK XH 3500	Ref. no. 06025	Page 95
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Flexible connector

AIR1-VS 58/41	Ref. no. 04374	Page 95
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Adapter square-round

AIR1-ÜS XH 3500-4500/RH 3000	Ref. no. 04369	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 3500 Weather protection cover for the unit	Ref. no. 06316	Page 97
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AIR1-AAD KR KW + DX XH 3500 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06462	Page 98
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 99
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Hoods

AIR1-AAHA XH 3500-4500/RH 3000 Intake hood outside air	Ref. no. 06487	Page 99
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AIR1-AAHF XH 3500-4500/RH 3000 Discharge hood exhaust air	Ref. no. 06647	Page 100
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Controls

Controllers

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

Controller connection cable

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

Sensors

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

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 3500/ePM10 50%/48 (M5)	Ref. no. 02180	Page 103
ELF-AIR1 XH 3500/ePM10 50%/96 (M5)	Ref. no. 02206	Page 103
ELF-AIR1 XH 3500/ePM10 55%/96 (F7)	Ref. no. 02230	Page 103
ELF-AIR1 XH 3500/ePM10 80%/96 (F9)	Ref. no. 02291	Page 103

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.