

AIR1 XH 7000

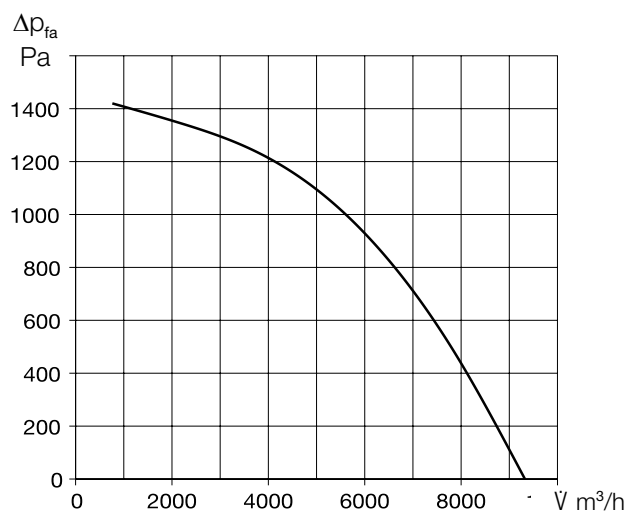


Separable casing design



Fig. shows accessories

Performance curve AIR1 XH 7000



Unit type

	AIR1 XH 7000
Ref. no.	04341
Heat exchanger	Cross-counterflow

Technical data

Mechanical data

Area of application	Inside/outside
Installation position	standing
Maintenance access	Side, both sides
Min. air volume	1,080 m ³ /h
Max. air volume ERP	6,300 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	9,300 m ³ /h
Weight, unit operational	1,080 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 3,600 W
Max. output elec. pre-heater	21,000 W
Nominal current	
- Ventilation unit	41.3 / 41.3 / 42.3 A ⁽³⁾
- Electrical auxiliary heater	30.3 / 30.3 / 30.3 A ⁽⁴⁾
- max. total	71.6 / 71.6 / 72.6 A
Connection (wiring diagram no.)	1332

(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

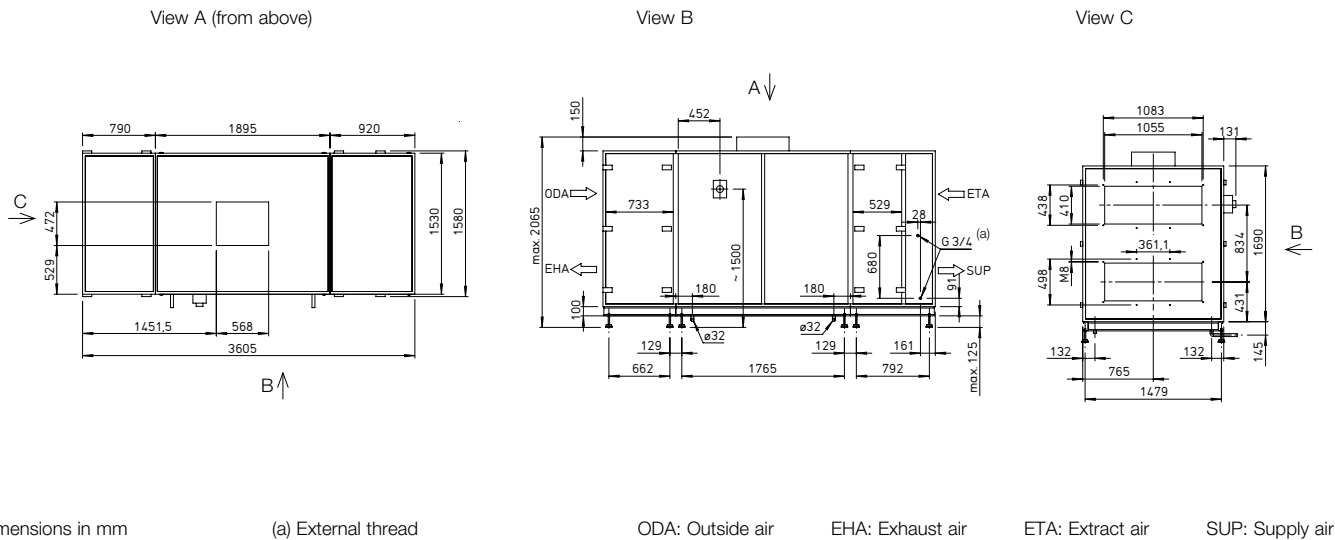
	2,200 m ³ /h	4,400 m ³ /h	6,300 m ³ /h
Supply air (L _{WA})	78	81	87
Extract air (L _{WA})	64	63	70
Outside air (L _{WA})	67	62	67
Exhaust air (L _{WA})	77	80	86

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

	2,200 m ³ /h	4,400 m ³ /h	6,300 m ³ /h
Housing rad. 1 m	47	48	53
Housing rad. 3 m	37	39	44
Housing rad. 5 m	33	34	39

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 7000



■ Accessories

■ Heating and cooling registers

Auxiliary heater

AIR1-ENH XH 7000 Electrical, internal	Ref. no. 03603	Page 88
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AIR1-NH WW XH 7000 Hot water, internal	Ref. no. 03689	Page 89
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Hydraulic unit for hot water heater register

WHSH HE 24 V (0 – 10 V) M	Ref. no. 06310	Page 89
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Cooling register

AIR1-KR KW XH 7000 L ⁽¹⁾ Cold water, external	Ref. no. 03945	Page 90
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AIR1-KR KW XH 7000 R ⁽¹⁾ Cold water, external	Ref. no. 04281	Page 90
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AIR1-CO DX XH 7000 L ⁽¹⁾ Change-over, external	Ref. no. 04414	Page 92
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AIR1-CO DX XH 7000 R ⁽¹⁾ Change-over, external	Ref. no. 03123	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 7000/RH 8000	Ref. no. 06012	Page 94
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Recirculation kit

AIR1-ULK XH 7000	Ref. no. 06028	Page 95
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Flexible connector

AIR1-VS 105/41	Ref. no. 04376	Page 95
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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 7000 Weather protection cover for the unit	Ref. no. 06350	Page 97
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AIR1-AAD KR KW + DX XH 7000 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06465	Page 98
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Terminal box heater

AIR1-AAHK	Ref. no. 07064	Page 99
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Hoods

AIR1-AAHA XH 7000/RH 8000 Intake hood outside air	Ref. no. 06497	Page 99
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AIR1-AAHF XH 7000/RH 8000 Discharge hood exhaust air	Ref. no. 06841	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 7000/ePM10 50%/48 (M5)	Ref. no. 02187	Page 103
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ELF-AIR1 XH 7000/ePM10 50%/96 (M5)	Ref. no. 02209	Page 103
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ELF-AIR1 XH 7000/ePM10 55%/96 (F7)	Ref. no. 02234	Page 103
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ELF-AIR1 XH 7000/ePM10 80%/96 (F9)	Ref. no. 02435	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.