

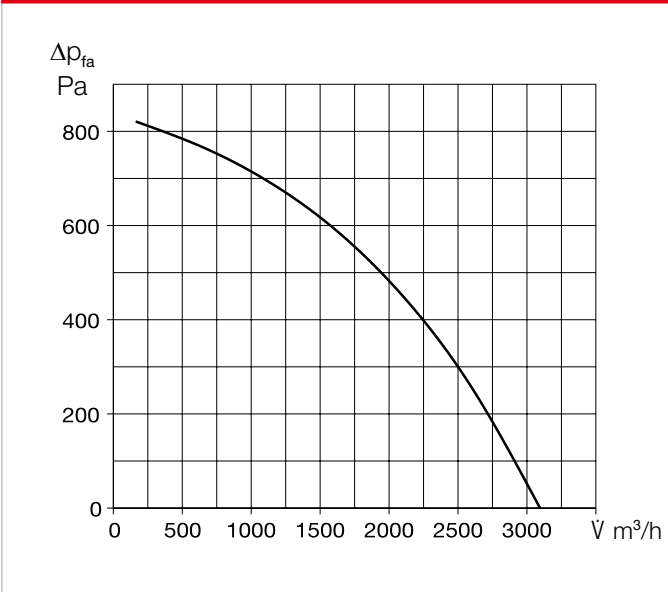
AIR1 XH 2500



Fig. shows accessories



Performance curve AIR1 XH 2500



Unit type

Unit type	AIR1 XH 2500
Ref. no.	04337
Heat exchanger	Cross-counterflow

Technical data

Mechanical data	
Area of application	Inside/outside
Installation position	Standing
Maintenance access	Side, both sides
Min. air volume	520 m <sup>3</sup> /h
Max. air volume ERP	2430 m <sup>3</sup> /h <sup>(1)</sup>
Max. air volume (free blowing)	3095 m <sup>3</sup> /h
Weight, unit operational	508 kg
Delivery unit	1-part
Unit segments	1
Housing class (DIN 1886)	T2 / TB2 / D2
Filter Outside air	ISO ePM <sub>10</sub> 55% (F7) <sup>(2)</sup>
Filter Extract air	ISO ePM <sub>10</sub> 50% (M5) <sup>(2)</sup>
Media temperature (air)	-20 to +40 °C
Ambient temperature (operation)	-20 to +50 °C
Protection class	IP 31
Electrical data	
Central building control system	BACnet, Modbus TCP/IP
Voltage / Frequency	400 V 3N ~, 50 Hz
Max. output Fans	2 x 780 W
Max. output elec. pre-heater	6600 W
Nominal current	
– Ventilation unit	13 / 13 / 10.4 A <sup>(3)</sup>
– Electrical auxiliary heater	9.5 / 9.5 / 9.5 A <sup>(4)</sup>
– max. total	22.5 / 22.5 / 19.9 A
Connection (wiring diagram no.)	1328

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

(2) = other filter classes see optional accessories

(3) = includes electrical pre-heater

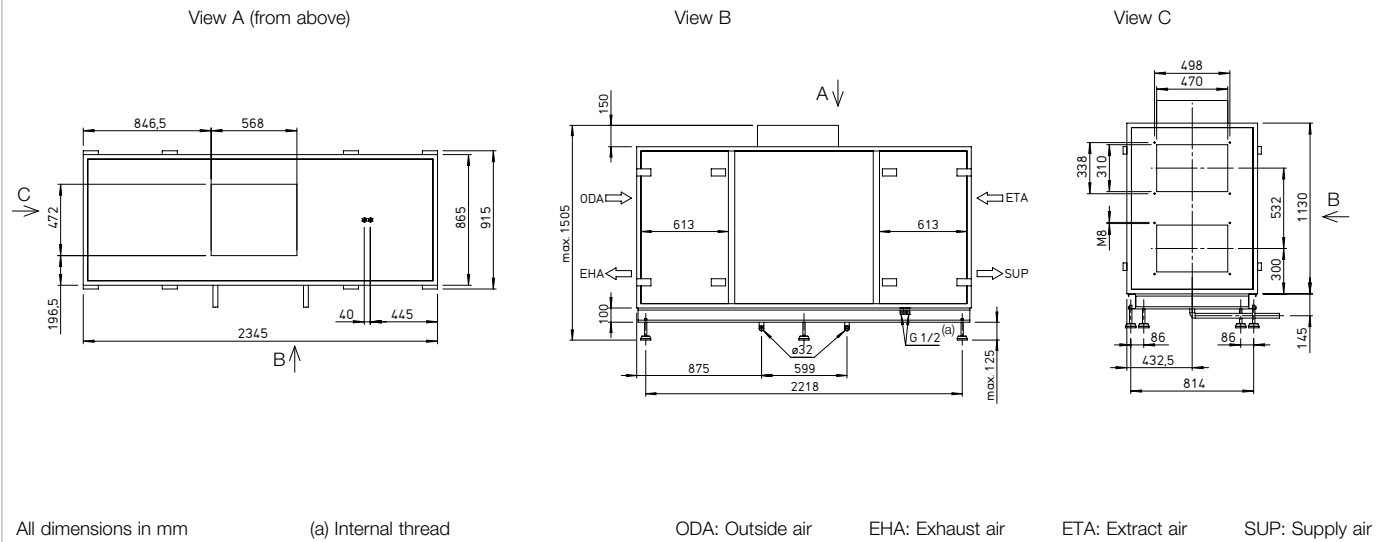
(4) = Optional accessories

Sound data

Sound power level L <sub>WA</sub> dB(A) at 250 Pa external pressure			
	800 m <sup>3</sup> /h	1,700 m <sup>3</sup> /h	2,430 m <sup>3</sup> /h
Supply air (L <sub>WA</sub> )	72	75	79
Extract air (L <sub>WA</sub> )	59	59	63
Outside air (L <sub>WA</sub> )	63	58	60
Exhaust air (L <sub>WA</sub> )	71	73	78
Sound pressure level L <sub>pA</sub> dB(A) of sound radiated from housing			
	800 m <sup>3</sup> /h	1,700 m <sup>3</sup> /h	2,430 m <sup>3</sup> /h
Housing rad. 1 m	42	42	46
Housing rad. 3 m	33	32	36
Housing rad. 5 m	28	28	32

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 2500



■ Accessories

■ Heating and cooling registers

Auxiliary heater

<b>AIR1-ENH XH 2500</b> Electrical, internal	Ref. no. 03590	Page 88
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<b>AIR1-NH WW XH 2500</b> Hot water, internal	Ref. no. 03679	Page 89
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Hydraulic unit for hot water heater register

<b>WHSH HE 24 V (0 – 10 V)</b>	Ref. no. 08318	Page 89
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Cooling register

<b>AIR1-KR KW XH 2500 L <sup>(1)</sup></b> Cold water, external	Ref. no. 03844	Page 90
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<b>AIR1-KR KW XH 2500 R <sup>(1)</sup></b> Cold water, external	Ref. no. 04264	Page 90
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<b>AIR1-CO DX XH 2500 L <sup>(1)</sup></b> Change-over, external	Ref. no. 40376	Page 92
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<b>AIR1-CO DX XH 2500 R <sup>(1)</sup></b> Change-over, external	Ref. no. 40384	Page 92
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<b>AIR1-SM DX <sup>(2)</sup></b> Control module	Ref. no. 40408	Page 94
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■ Air routing

Multi-leaf damper

<b>AIR1-JVK XH 2500/RH 2000</b>	Ref. no. 06007	Page 94
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Recirculation kit

<b>AIR1-ULK XH 2500</b>	Ref. no. 06024	Page 95
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Flexible connector

<b>AIR1-VS 47/31</b>	Ref. no. 04373	Page 95
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Adapter square-round

<b>AIR1-ÜS XH 2500/RH 2000</b>	Ref. no. 04368	Page 96
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■ Condensate drainage

Ball siphon

<b>AIR1-KS B</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

<b>AIR1-AAD XH 2500</b> Weather protection cover for the unit	Ref. no. 06315	Page 97
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<b>AIR1-AAD KR KW + DX XH 2500</b> Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06461	Page 98
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Terminal box heater

<b>AIR1-AAHK</b>	Ref. no. 07064	Page 99
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Hoods

<b>AIR1-AAHA XH 2500/RH 2000</b> Intake hood outside air	Ref. no. 06539	Page 99
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<b>AIR1-AAHF XH 2500/RH 2000</b> Discharge hood exhaust air	Ref. no. 06646	Page 100
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■ Controls

Controllers

<b>AIR1-BE ECO</b>	Ref. no. 06186	Page 101
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<b>AIR1-BE TOUCH</b>	Ref. no. 06187	Page 101
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Controller connection cable

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

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

<b>AIR1-SK</b>	Ref. no. 06019	Page 102
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Extension kit for constant pressure control

<b>AIR1-CAP</b>	Ref. no. 06756	Page 102
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■ Air filters

Spare air filter and other filter classes

<b>ELF-AIR1 XH 2500/ePM10 50%/48 (M5)</b>	Ref. no. 02179	Page 103
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<b>ELF-AIR1 XH 2500/ePM10 50%/96 (M5)</b>	Ref. no. 02205	Page 103
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<b>ELF-AIR1 XH 2500/ePM1 55%/96 (F7)</b>	Ref. no. 02229	Page 103
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<b>ELF-AIR1 XH 2500/ePM1 80%/96 (F9)</b>	Ref. no. 02290	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