

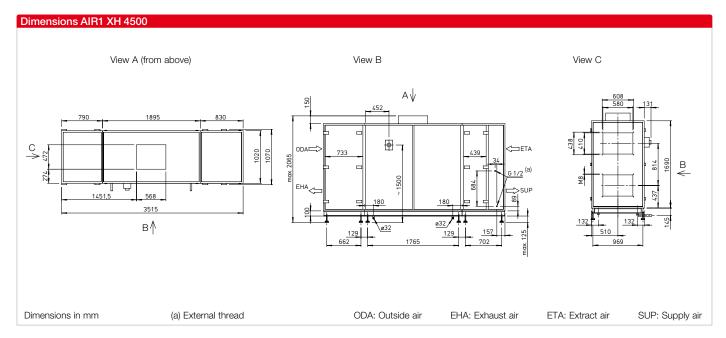
Unit type	
	AIR1 XH 4500
Ref. no.	04339
Heat exchanger	Cross-counterflow

Technical data	
Mechanical data	
Area of application	Inside/outside
Installation position	standing
Maintenance access	Side, both sides
Min. air volume	665 m³/h
Max. air volume ERP	4,150 m ³ /h ⁽¹⁾
Max. air volume (free blowing)	6,100 m ³ /h
Weight, unit operational	750 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 (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 2,500 W
Max. output elec. pre-heater	12,900 W
Nominal current	
- Ventilation unit	26.3 / 26.3 / 27 A ⁽³⁾
 Electrical auxiliary heater 	18.6 / 18.6 / 18.6 A ⁽⁴⁾
- max. total	44.9 / 44.9 / 45.6 A
Connection (wiring diagram no.)	1330

- (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 pi	essure	
	1,300 m³/h	2,900 m³/h	4,150 m³/h
Supply air (L _{WA})	71	76	82
Extract air (L _{wA})	48	59	67
Outside air (L _{WA})	62	58	63
Exhaust air (L _{wa})	70	75	81
Sound pressure level L _{PA} dB(A	A) of sound radiated	from housing	
	1,300 m³/h	2,900 m³/h	4,150 m³/h
Housing rad. 1 m	41	42	48
Housing rad. 3 m	31	33	39
Housing rad. 5 m	27	28	34
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.			





Accessories

Heating and cooling registers		
Auxiliary heater		
AIR1-ENH XH 4500 Electrical, internal	Ref. no. 03593	Page 84
AIR1-NH WW XH 4500 Hot water, internal	Ref. no. 03684	Page 85
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 85
Cooling register		
AIR1-KR KW XH 4500 L ⁽¹⁾ Cold water, external	Ref. no. 03919	Page 86
AIR1-KR KW XH 4500 R ⁽¹⁾ Cold water, external	Ref. no. 04278	Page 86
AIR1-CO DX XH 4500 L ⁽¹⁾ Change-over, external	Ref. no. 04409	Page 88
AIR1-CO DX XH 4500 R ⁽¹⁾ Change-over, external	Ref. no. 04879	Page 88
AIR1-SM DX (2) Control module	Ref. no. 40408	Page 90

Air routing		
Multi-leaf damper		
AIR1-JVK XH 3500-4500/RH 3000	Ref. no. 06009	Page 90
Recirculation kit		
AIR1-ULK XH 4500	Ref. no. 06026	Page 91
Flexible connector		
AIR1-VS 58/41	Ref. no. 04374	Page 91
Adapter square-round		
AIR1-ÜS XH 3500-4500/RH 3000	Ref. no. 04369	Page 92

Condensate drainage		
Ball siphon		
AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 92

- (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-C0 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.

External installation		
Cover for external installation		
AIR1-AAD XH 4500 Weather protection cover for the unit	Ref. no. 06347	Page 93
AIR1-AAD KR KW + DX XH 4500 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 06463	Page 94
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 95
Hoods		
AIR1-AAHA XH 3500-4500/RH 3000 Intake hood outside air	Ref. no. 06487	Page 95
AIR1-AAHF XH 3500-4500/RH 3000 Discharge bood exhaust air	Ref. no. 06647	Page 96

Controls		
Controllers		
AIR1-BE ECO	Ref. no. 06186	Page 97
AIR1-BE TOUCH	Ref. no. 06187	Page 97
Controller connection cable		
AIR1-SL 4/10 10 m	Ref. no. 07073	Page 97
AIR1-SL 4/20 20 m	Ref. no. 07121	Page 97
Sensors		
AIR1/KWL-VOC 0-10V Mixed gas sensor	Ref. no. 20250	Page 97
AIR1/KWL-CO2 0-10V Carbon dioxide sensor	Ref. no. 20251	Page 97
AIR1/KWL-FTF 0-10V Humidity-temperature sensor	Ref. no. 20252	Page 97
AIR1-CO2 K Carbon dioxide sensor duct	Ref. no. 07124	Page 98
Signal converter for sensors		
AIR1-SK	Ref. no. 06019	Page 98
Extension kit for constant pressure control		
AIR1-CAP	Ref. no. 06756	Page 98

Air filters		
Spare air filter and other filter classes		
ELF-AIR1 XH 4500/ePM10 50%/48 (M5)	Ref. no. 02182	Page 99
ELF-AIR1 XH 4500/ePM10 50%/96 (M5)	Ref. no. 02207	Page 99
ELF-AIR1 XH 4500/ePM1 55%/96 (F7)	Ref. no. 02231	Page 99
ELF-AIR1 XH 4500/ePM1 80%/96 (F9)	Ref. no. 02292	Page 99
The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.		