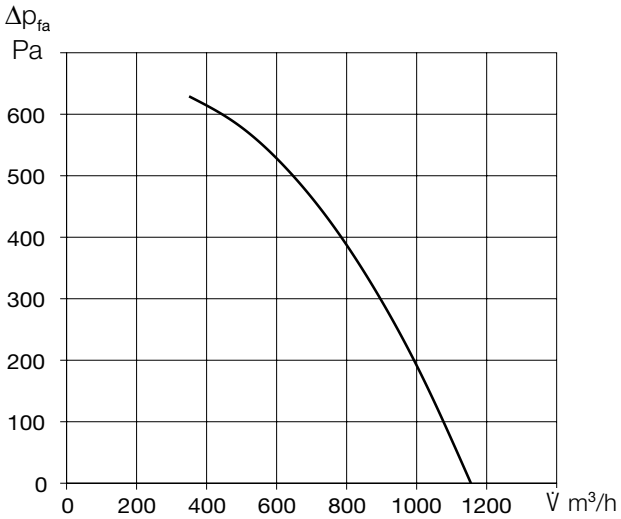
AIR1 XHP 750

NEW

Performance curve AIR1 XHP 750



Unit type	
	AIR1 XHP 750
Ref. no.	40608
Heat exchanger	Cross-counterflow

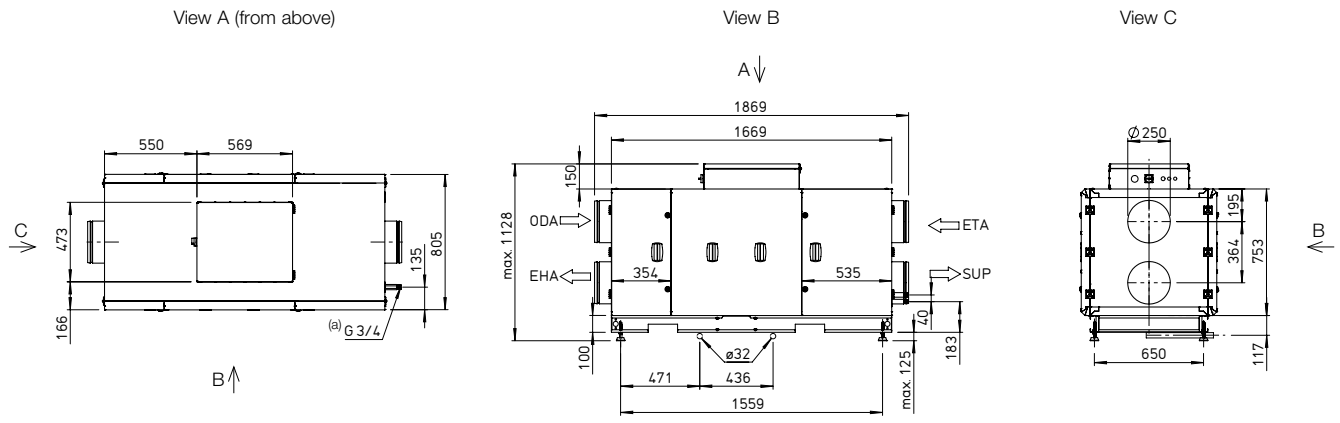
Technical data			
Mechanical data			
Area of application	Inside/outside		
Installation position	standing		
Maintenance access	Side, both sides		
Min. air volume	270 m³/h		
Max. air volume ERP	780 m³/h (1)		
Max. air volume (free blowing)	1,150 m³/h		
Weight, unit operational	220 kg		
Delivery unit	1-part		
Unit segments	1		
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	230 V 1N ~, 50 Hz (4)	
Max. output Fans	2 x 320 W	2 x 320 W	
Max. output elec. pre-/post-heater	2,700 / 2,700 W (3)	2,700 W (3)(4)	
Nominal current			
– Ventilation unit	4 / 0 / 0 A	4 A	4 A
– Electrical pre-heater	0 / 0 / 11.7 A	11.7 A (4)	–
– Electrical auxiliary heater	0 / 11.7 A / 0 A	–	11.7 A (4)
– max. total	4 / 11.7 / 11.7 A	15.7 A (4)	15.7 A (4)
Connection (wiring diagram no.)	1511	1511	

(1) = at 250 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories
(3) = Optional accessories
(4) = Note: 230 V supply of the unit only permissible without electrical post-heating and with separate mains sopply of the electrical preheating.

Sound data			
Sound power level L_{WA} dB(A) at 200 Pa external pressure			
	370 m³/h	500 m³/h	780 m³/h
Supply air (L_{WA})	65	73	85
Extract air (L_{WA})	55	63	72
Outside air (L_{WA})	62	69	78
Exhaust air (L_{WA})	62	69	80
Sound pressure level L_{PA} dB(A) of sound radiated from housing			
	370 m³/h	500 m³/h	780 m³/h
Housing rad. 1 m	38	46	57
Housing rad. 3 m	29	37	47
Housing rad. 5 m	24	32	43

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 XHP 750



Dimensions in mm (a) External thread ODA: Outside air EHA: Exhaust air ETA: Extract air SUP: Supply air

Accessories

Heating and cooling registers		
Pre-heater		
AIR1-EVH XHP 750 Electrical, internal	Ref. no. 40549	Page 88
Auxiliary heater		
AIR1-ENH XHP 750 Electrical, internal	Ref. no. 40550	Page 88
AIR1-NH WW XHP 750 Hot water, internal	Ref. no. 40551	Page 89
Hydraulic unit for hot water heater register		
WHSH HE 24 V (0 – 10 V)	Ref. no. 08318	Page 89
Cooling register		
AIR1-KR KW XHP 750 L (1) Cold water, external	Ref. no. 40552	Page 90
AIR1-KR KW XHP 750 R (1) Cold water, external	Ref. no. 40553	Page 90
AIR1-CO DX XHP 750 L (1) Change-over, external	Ref. no. 40554	Page 92
AIR1-CO DX XHP 750 R (1) Change-over, external	Ref. no. 40555	Page 92

Air routing		
Motorised duct shutter		
RVMD 250/24V	Ref. no. 40246	Page 94
Recirculation kit		
AIR1-ULK XHP 750	Ref. no. 40559	Page 95

Condensate drainage		
Ball siphon		
AIR1-KS B for use with floor-mounted units and cooling register	Ref. no. 07169	Page 96

(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.

External installation		
Cover for external installation		
AIR1-AAD XHP 750 Weather protection cover for the unit	Ref. no. 40556	Page 97
AIR1-AAD KR KW + DX XHP 750 Weather protection cover for cooling register cold water or direct evaporator	Ref. no. 40557	Page 98
Terminal box heater		
AIR1-AAHK	Ref. no. 07064	Page 99

Controls		
Controllers		
AIR1-BE ECO	Ref. no. 06186	Page 101
AIR1-BE TOUCH 2	Ref. no. 40751	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
Sensoren		
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
Extension kit for constant pressure control		
AIR1-CAP	Ref. no. 06756	Page 102

Air filters		
Spare air filter and other filter classes		
ELF-AIR1 XHP 750/ePM10 50%/48 (M5)	Ref. no. 40617	Page 103
ELF-AIR1 XHP 750/ePM10 50%/96 (M5)	Ref. no. 40595	Page 103
ELF-AIR1 XHP 750/ePM1 55%/96 (F7)	Ref. no. 40596	Page 103
ELF-AIR1 XHP 750/ePM1 80%/96 (F9)	Ref. no. 40597	Page 103
The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.		