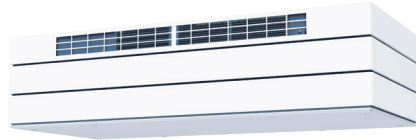


Datasheet AM 800



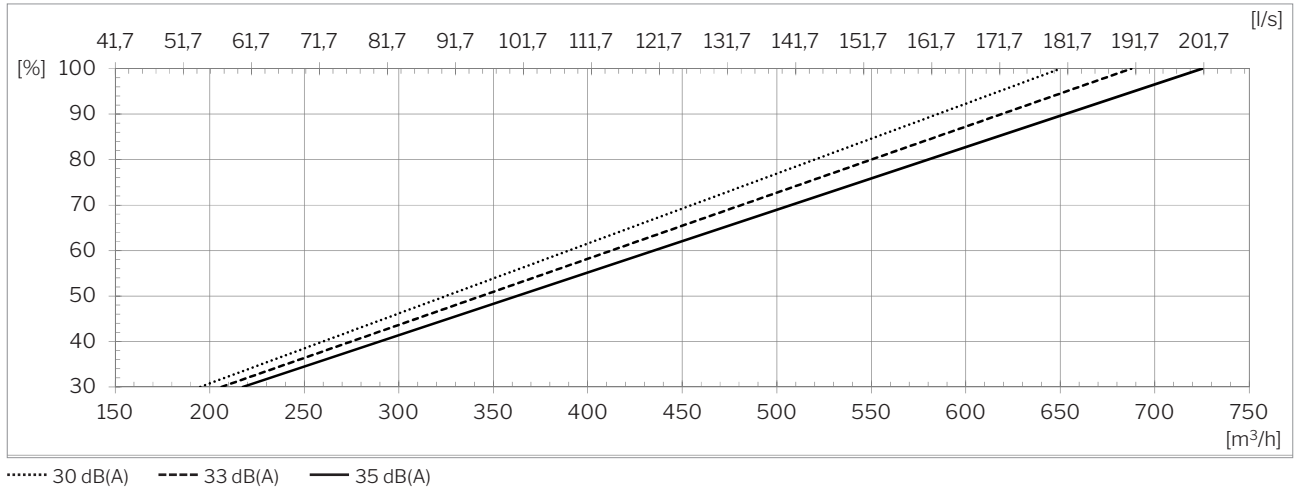
Technical data	Filter class	30 dB(A)	33 dB(A)	35 dB(A)
Maximum capacity ¹	ePM ₁₀ 50%	650 m ³ /h	688 m ³ /h	725 m ³ /h
	ePM ₁ 55%	585 m ³ /h	619 m ³ /h	653 m ³ /h
	ePM ₁ 80%	520 m ³ /h	550 m ³ /h	580 m ³ /h
Throw (0.2 m/s) ²	ePM ₁₀ 50%	7.7 m	-	8.3 m
	ePM ₁ 55%	7.2 m	-	7.7 m
	ePM ₁ 80%	6.7 m	-	7.2 m
Supply air filter	ePM ₁₀ 50%, ePM ₁ 55% eller ePM ₁ 80%			
Extract air filter	ePM ₁₀ 50%			
Dimensions (BxHxD)	1910 x 474 x 916 mm			
Weight, standard air handling unit, complete	157 kg			
Color, Panel / Color, Case	RAL 9010 (white) / RAL 7024 (grey)			
Counterflow heat exchanger	2 x Aluminum			
Air leakage classification cf. EN1886/EN13141-7	Class L2 / A1			
Air leakage classification main damper, cf. EN1751	Class 3			
IP-code	10			
Duct connection	Ø315 mm			
Condensate pump (Capacity ; Lifting height at 5 l/h)	10 l/h ; 6 m			
Condensate drain hose int./ext. diameter	Ø6 mm / Ø9 mm			
Supply voltage	220-240V/50Hz, ~1N+PE			
Nominal power consumption ¹	156 W			
Nominal current ¹	1.1 A			
Power factor	0.56			
Maximum fuse	16 A (1 phase, type B). When using the cc module, it is type C			
Leakage current AC / DC	≤ 6mA			
Recommended residual current breaker (RCCB)	Type B			
Electrical heating surfaces	Preheating surface	Comfort heating surface		
Heat output	1500 W	1000 W		
Nominal current	6,5 A	4,4 A		
Thermal circuit breaker, manual reset	100 °C	100 °C		
Water heating surface				
Nominal heat output ³	1379 W			
Connection dimension	1/2" (DN 15)			
Materials pipes/fins	Copper/aluminum			
Opening/closing time motor valve	60 s			
Maximum operating temperature	90 °C			
Maximum operating pressure	5 bar			

¹ All measurements were performed in normal operating mode in a standard installation using the facade grilles recommended by Airmaster: Airmaster Boomerain® Ø315.

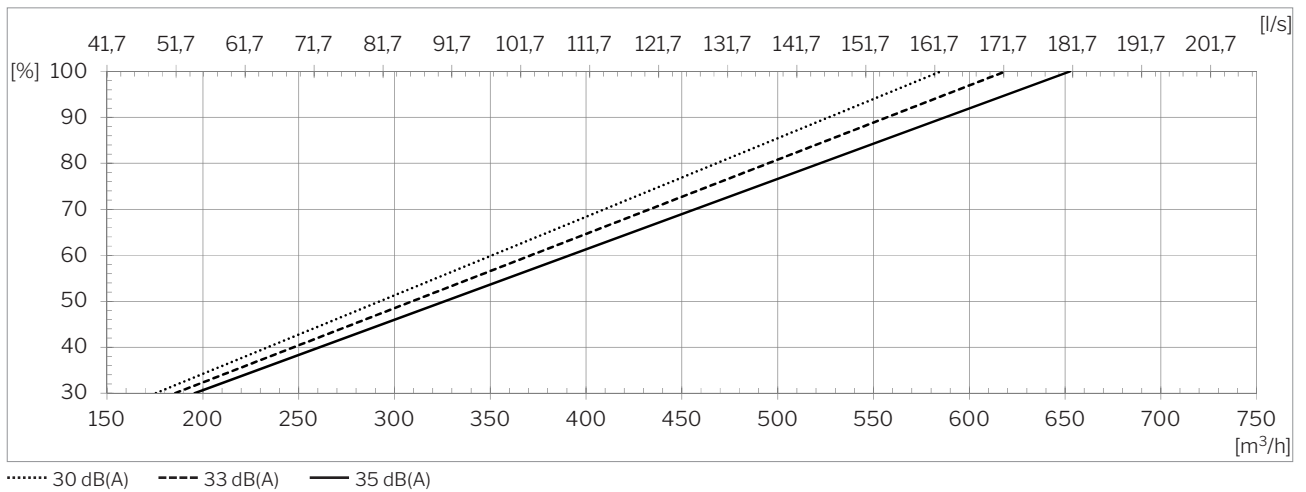
² Throw was measured with filter class: supply air ePM₁₀ 50% | Extract air ePM₁₀ 50%

³ Heat output for maximum capacity at 35 dB(A), delivery/return temperature 60/40°C and a liquid flow of 60 l/h.

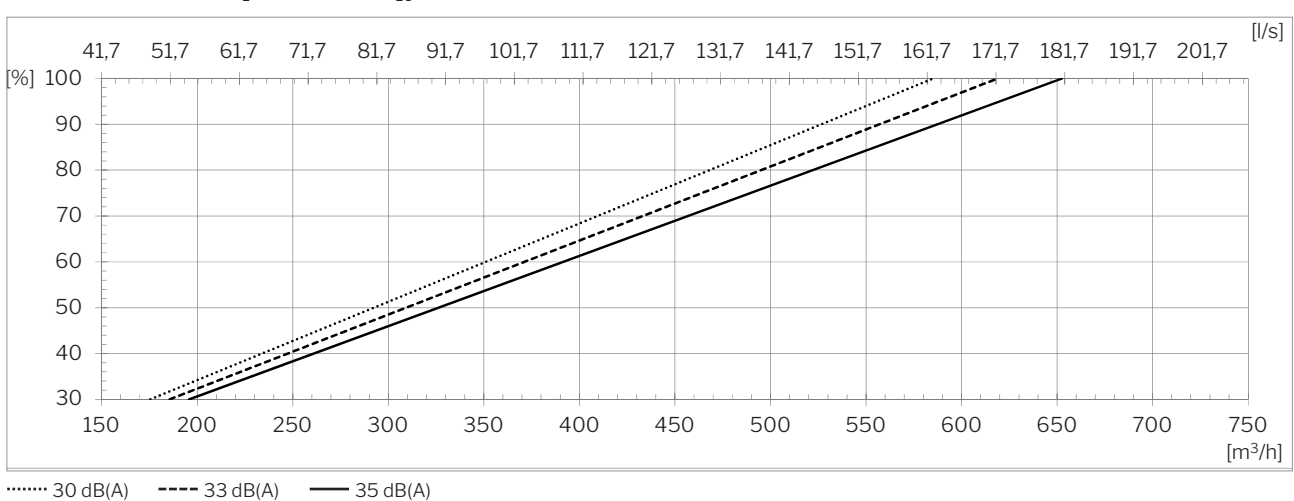
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁴



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁴

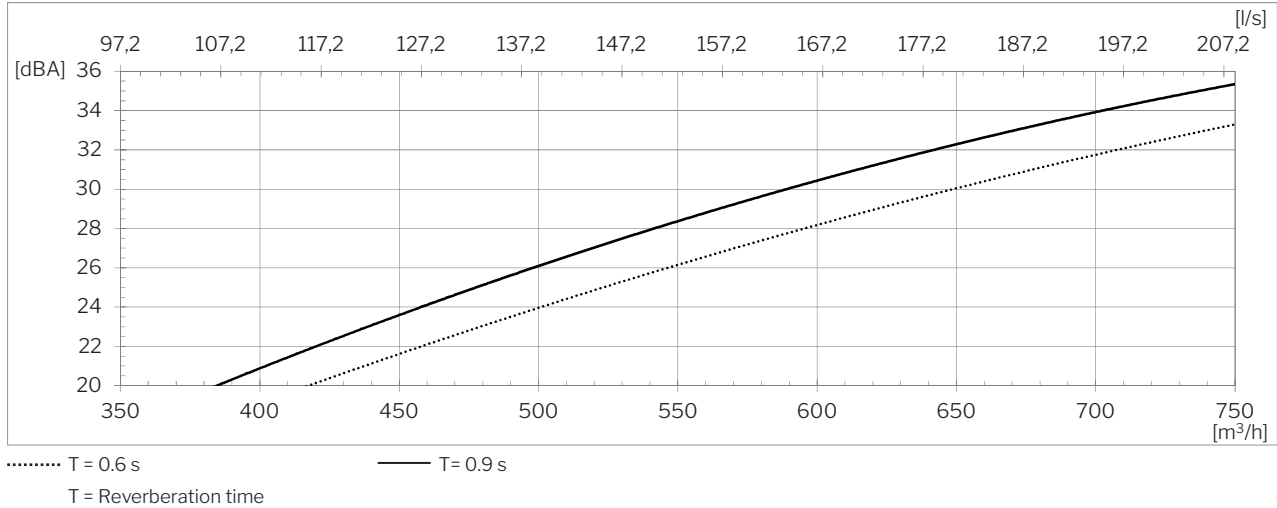


Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁴



⁴ All measurements were performed in normal operating mode in a standard installation using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

Sound pressure ^{5,6} $L_{pA,eq}$ acc. Airmaster reference situation

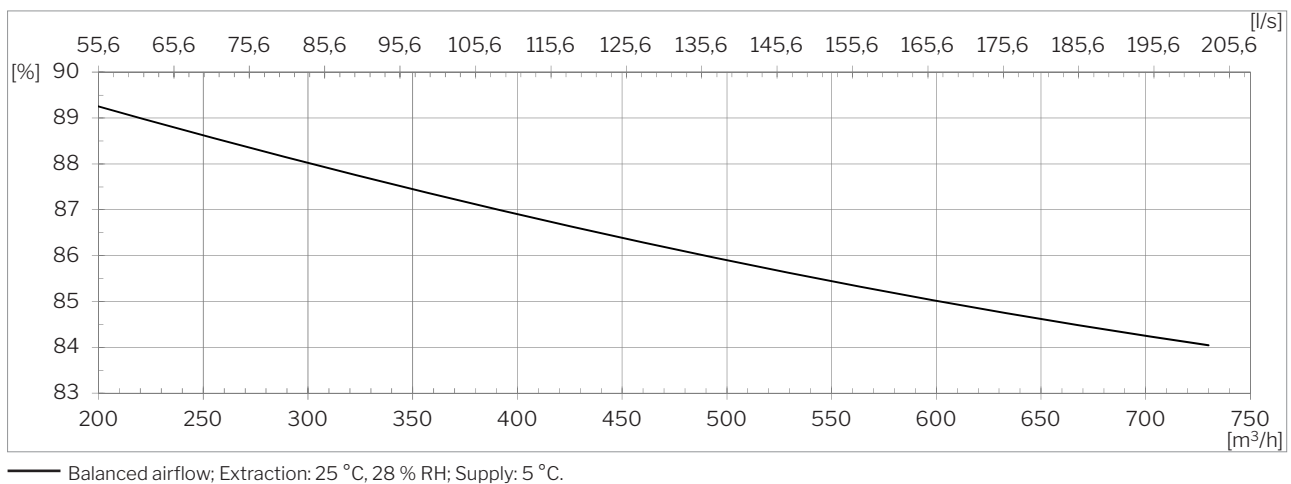


Sound Power Level L_{WA} [dB(A)], acc. to EN/ISO 3744:

Frequency [Hz]	63	125	250	500	1000	2000	4000	8000	$\emptyset L_{WA}$	$L_{pA,eq}^{6,7}$	q_V [m³/h]
Filters:	28	33	28	30	25,1	20,2	19,9	18,3	36,8	30	650
ePM ₁₀ 50% +	31	35	31	32	28	23,7	21	18,8	39,2	33	688
ePM ₁₀ 50%	33	39	34	34	31,8	25,9	22,8	19,1	42,1	35	725
Filters:	29	33	27	29	25,4	19,7	19,8	18,3	36,8	30	585
ePM ₁ 55% +	31	36	32	32	28,1	22,8	20,9	18,8	39,8	33	619
ePM ₁₀ 50%	34	39	33	35	32,3	25	22,5	19	42,6	35	653

$L_{pA,eq}$ Sound pressure level [dB(A)] at 1 m distance

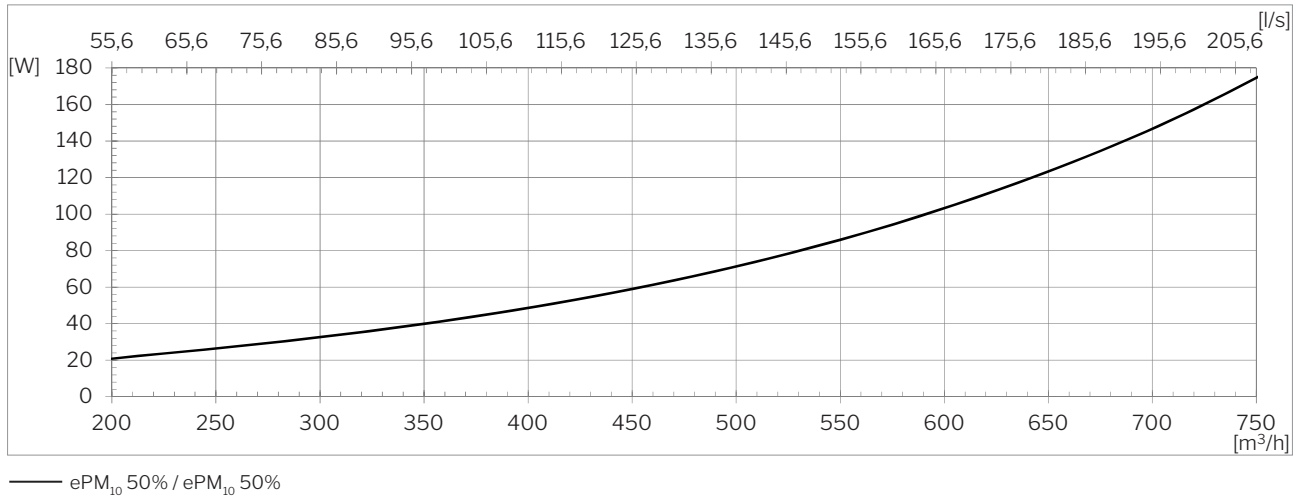
Temperature efficiency acc. EN 308



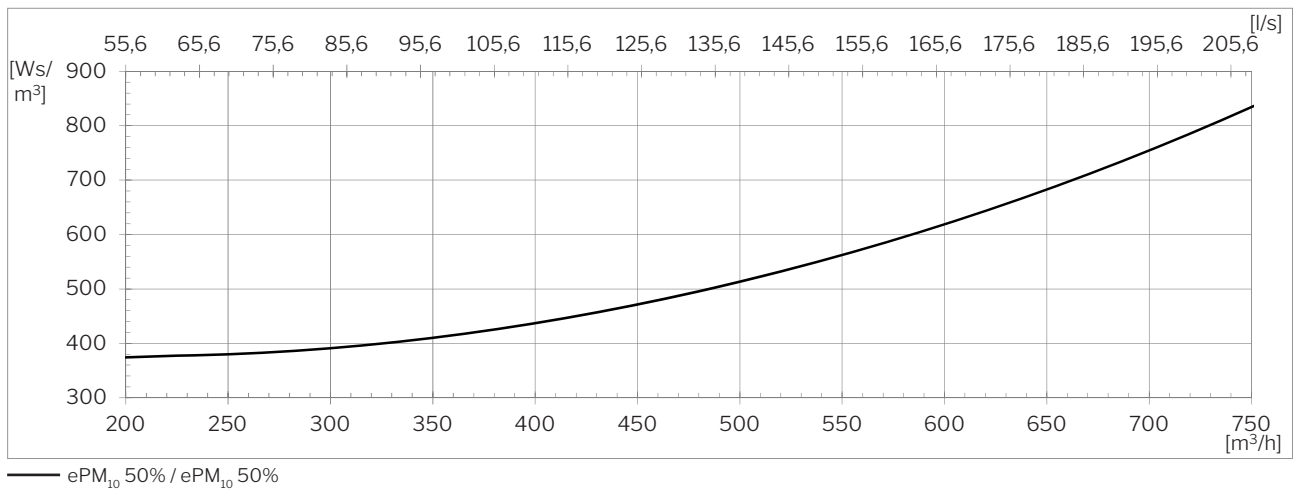
⁵ Sound pressure level $L_{pA,eq}$ is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m³ and a reverberation time of T = 0.6 s, corresponding to a room attenuation of 7.5 dB.

⁶ All measurements were performed in normal operating mode in a standard installation for the filter class, supply/extract air: ePM10 50% / ePM10 50%, using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

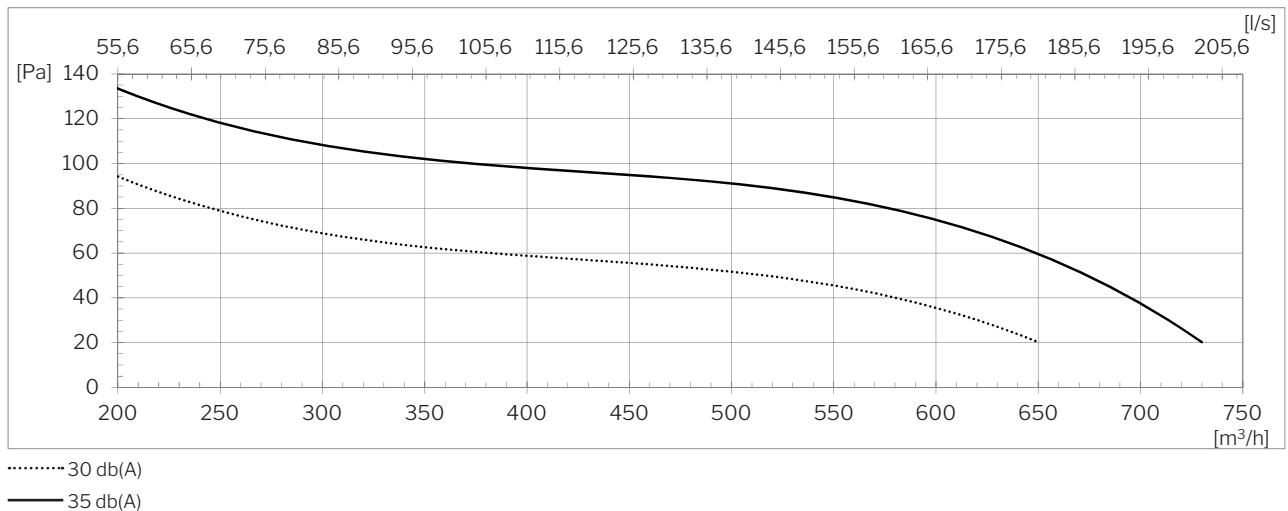
Power consumption ⁷



SFP ⁷



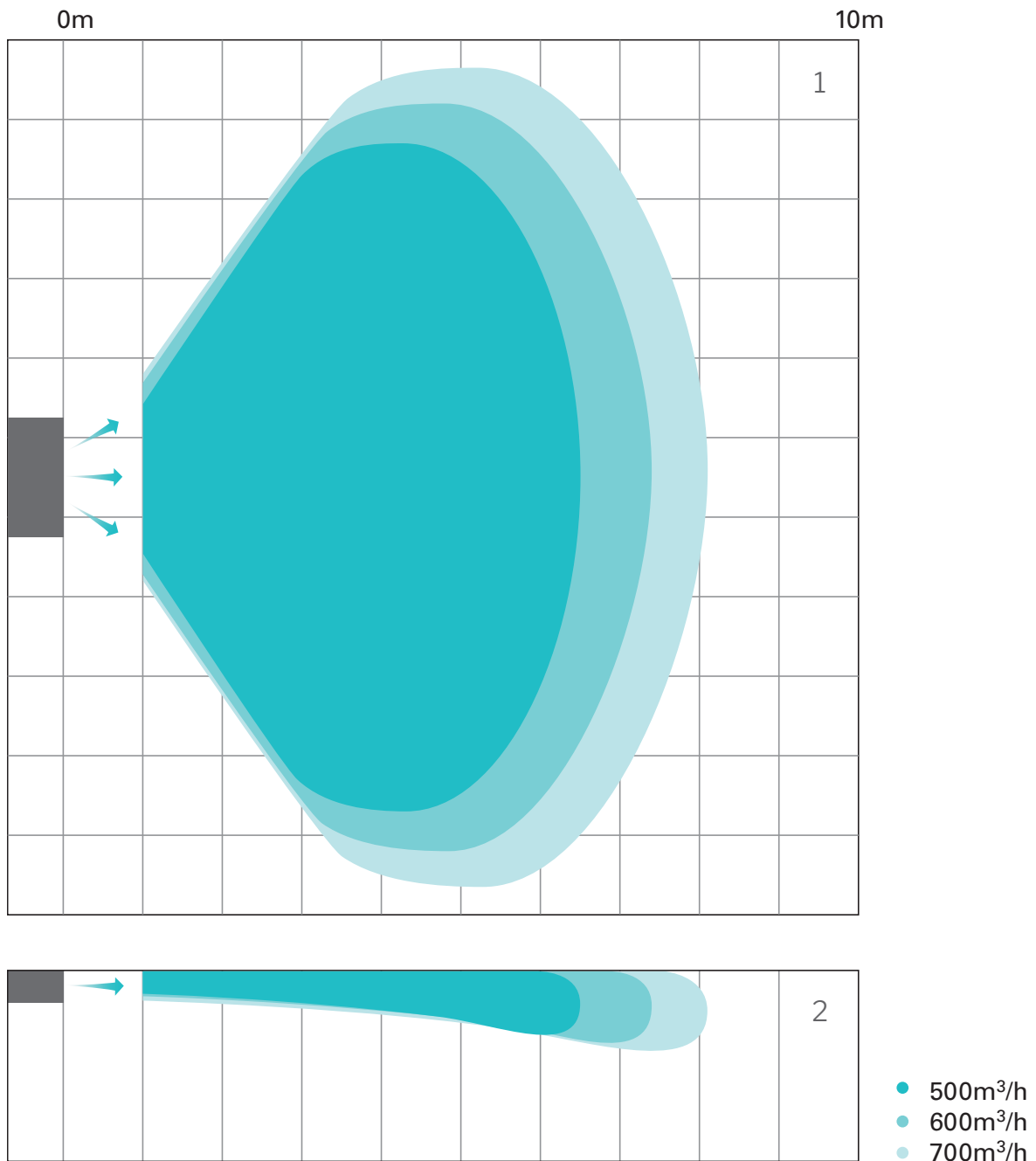
External pressure loss ⁷



⁷ All measurements were performed in normal operating mode in a standard installation for the filter class, supply/extract air: ePM10 50% / ePM10 50%, using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

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Throw (0.2 m/s)



1 Throw seen from above

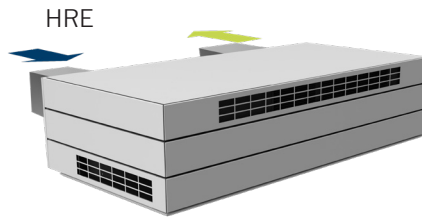
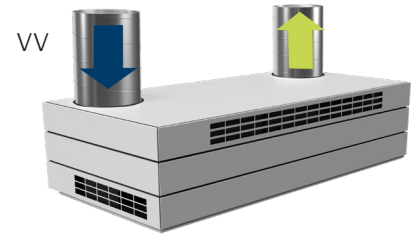
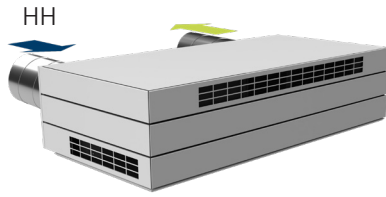
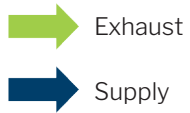
2 Throw seen from the side

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Version overview

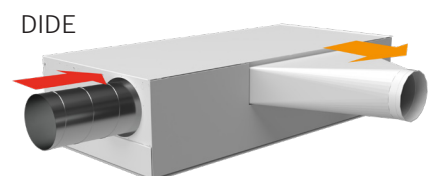
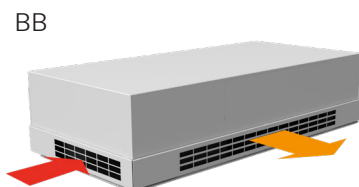
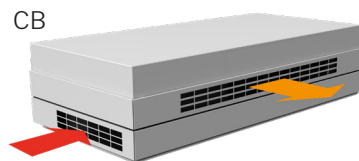
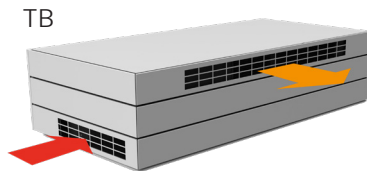
Exhaust and supply

H: Horizontal
V: Vertical
HRE: Horizontal Rectangular



Inlet and extract

T: Top
C: Center
B: Bottom
DI: Ducted Inlet
DE: Ducted Extract

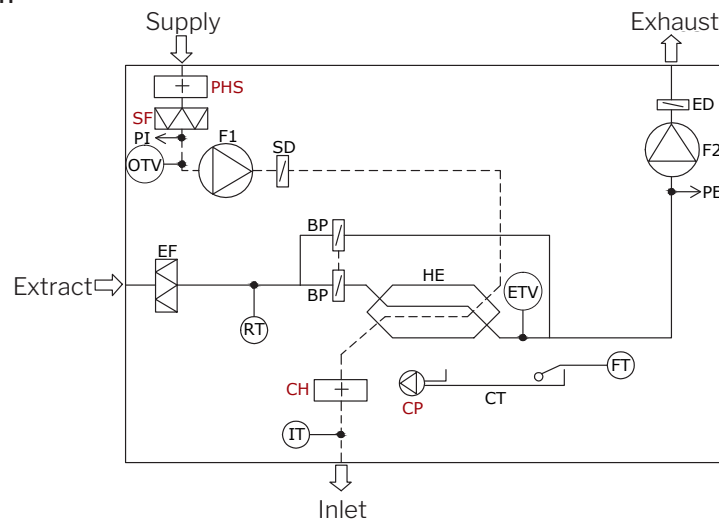


Standard and options

Counterflow heat exchanger (aluminum)	x	Energy meter	•
Enthalpy counterflow heat exchanger (Polymer membrane)	o	Cooling module, CC (Only for horizontal model)	•
Combination counterflow heat exchanger (Polymer membrane)	o	Supply air filter ePM ₁₀ 50%	•
Motor-driven bypass	x	Supply air filter ePM ₁ 55%	•
Motor-driven supply air damper	x	Supply air filter ePM ₁ 80%	o
Motor-driven extract air damper	x	Extract air filter ePM ₁₀ 50%	x
Capacitive return for motorized exhaust and supply air dampers	•	Wall-/ceiling bracket	•
Electric preheating surface	•	Ceiling frame	•
Electric comfort heating surface	•	Airlinq® Viva control panel	•
Water heating surface	•	Airlinq® Orbit control panel	•
Condensate pump	•	Airmaster Airlinq® Online	•
PIR/motion sensor (wall-mounted)	•	Airlinq® Online API	•
PIR/motion sensor (built-in)	•	Airlinq® BMS	•
CO ₂ -sensor (wall-mounted)	•	LON® module	o
CO ₂ -sensor (built-in)	•	KNX® module	o
TVOC-sensor (built-in)	•	MODBUS® RTU RS485 module	•
CO ₂ -/TVOC-sensor (built-in)	•	BACnet™ MS/TP module	•
Hygostat (wall-mounted)	o	BACnet™ /IP module	•
Service power switch	o	Mini B USB (on front of unit)	o

X : Standard • : Optional o : Special item (not stock item)

Schematic sketch



COMPONENT DESIGNATION

BP	Bypass damper (motor-driven)	ETV	Exhaust temperature sensor	PE	Flow meter, extracted air (only available with AQC-P - grey control box)
CH	Electric comfort heating surface (option)	FT	Float	PHS	Preheating surface (option)
CP	Condensate pump (option)	F1	Supply air fan	PI	Flow meter, supply air (only available with AQC-P - grey control box)
CT	Condensate tray	F2	Extract air fan	RT	Room temperature sensor
ED	Exhaust air damper (motor-driven)	HE	Counterflow heat exchanger	SD	Supply air damper (Motor-driven)
EF	Extract air filter	IT	Inlet-air temperature sensor	SF	Supply air filter (option)
		OTV	Supply air temperature sensor		