

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 (WxHxD)	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			
Maximum power consumption ¹	354 W			
Maximum current ¹	2,76 A			
Power factor	0.56			
Maximum fuse	16 A, 1 phase, type B. CC module: Type C is required.			
Leakage current AC / DC	≤ 6mA			
Recommended residual current breaker (RCCB)	Type F / Type B CC module: Type B is required.			

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

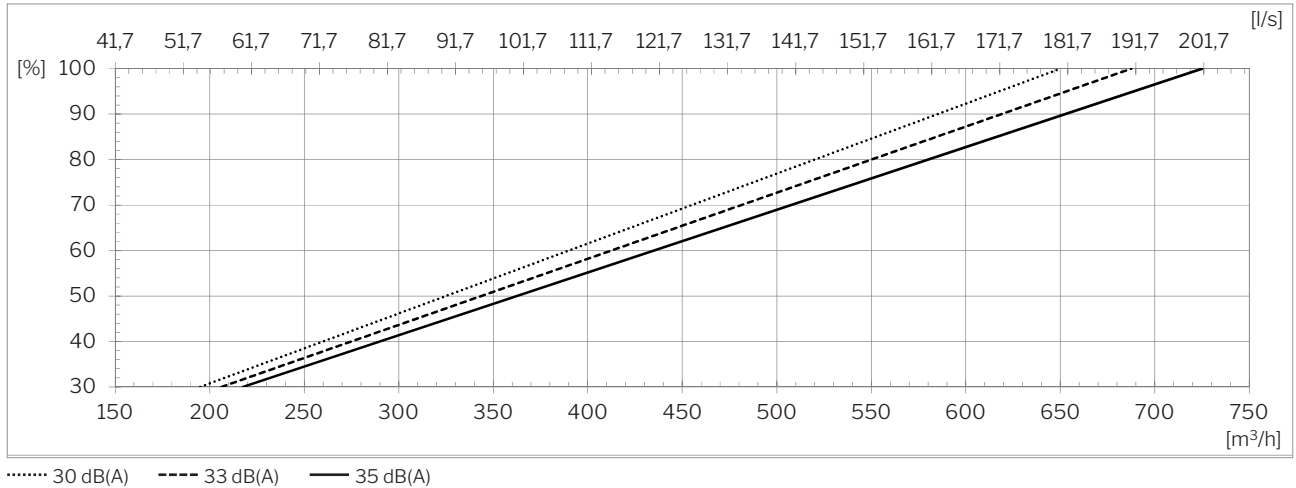
Water heating surface	
Nominal heat output ³	1379 W
Connection dimension	1/2" (DN 15)
Materials pipes/fins	Copper/aluminum
Opening/closing time motor valve	60 s
Maximum operating temperature	90 °C
Maximum operating pressure	5 bar

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

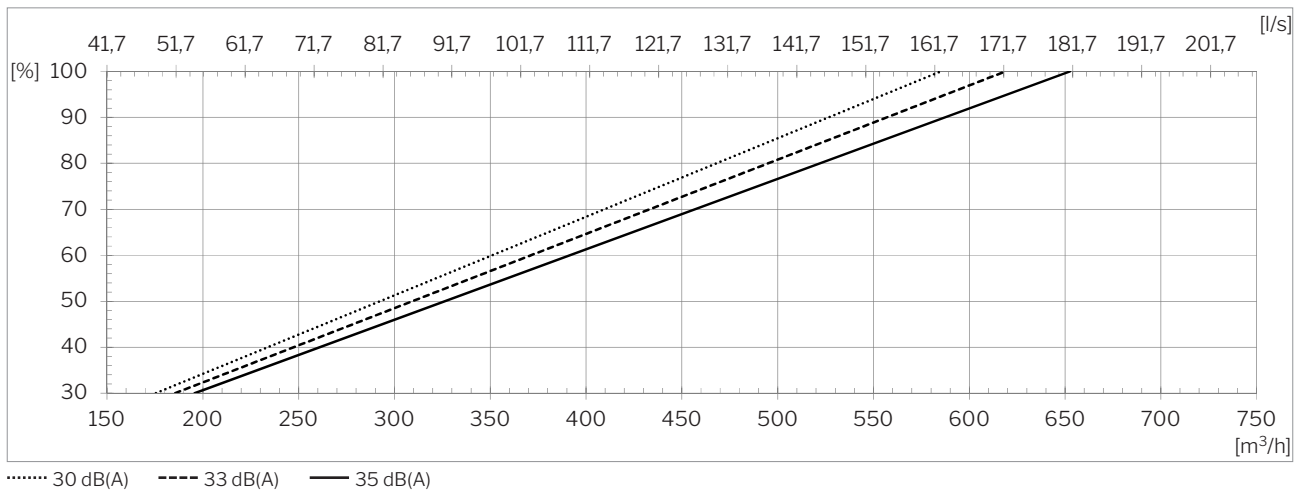
² Throw was measured with filter class: supply air ePM₁₀ 50% | Extract air ePM₁₀ 50%

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

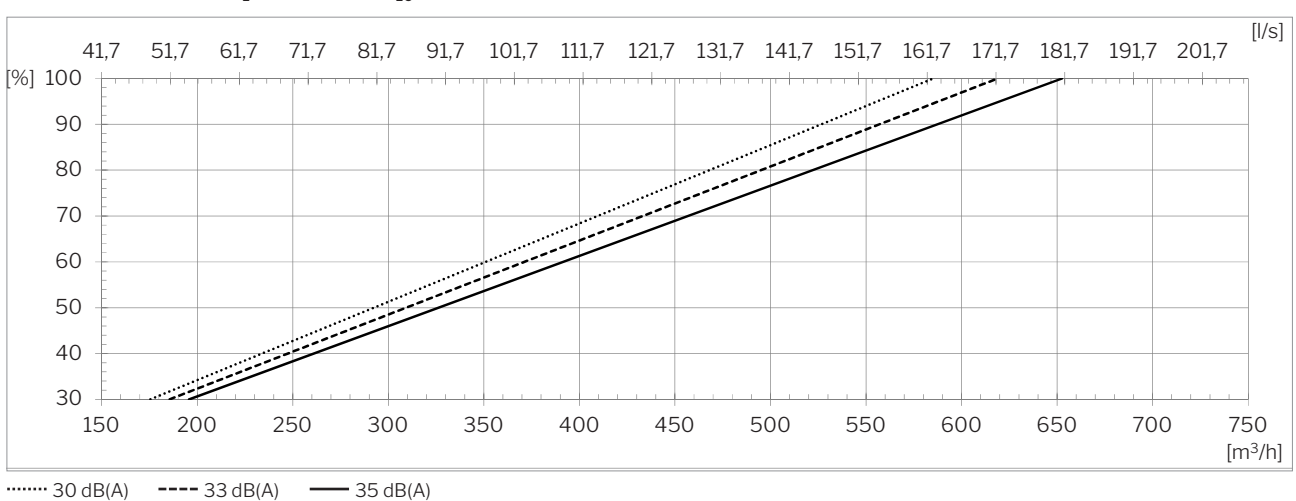
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁴



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁴

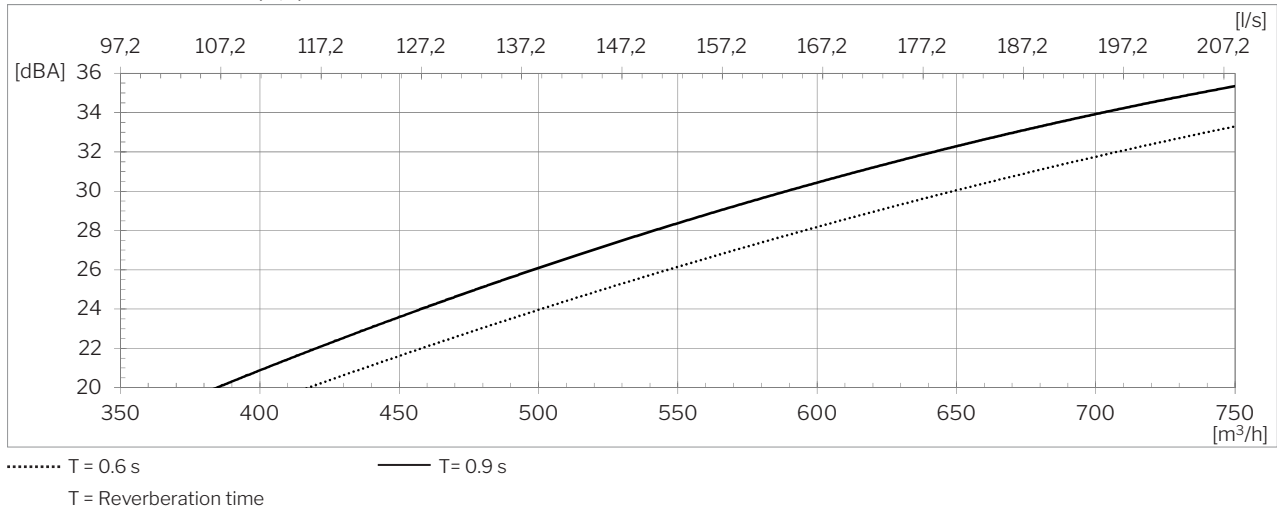


Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁴



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

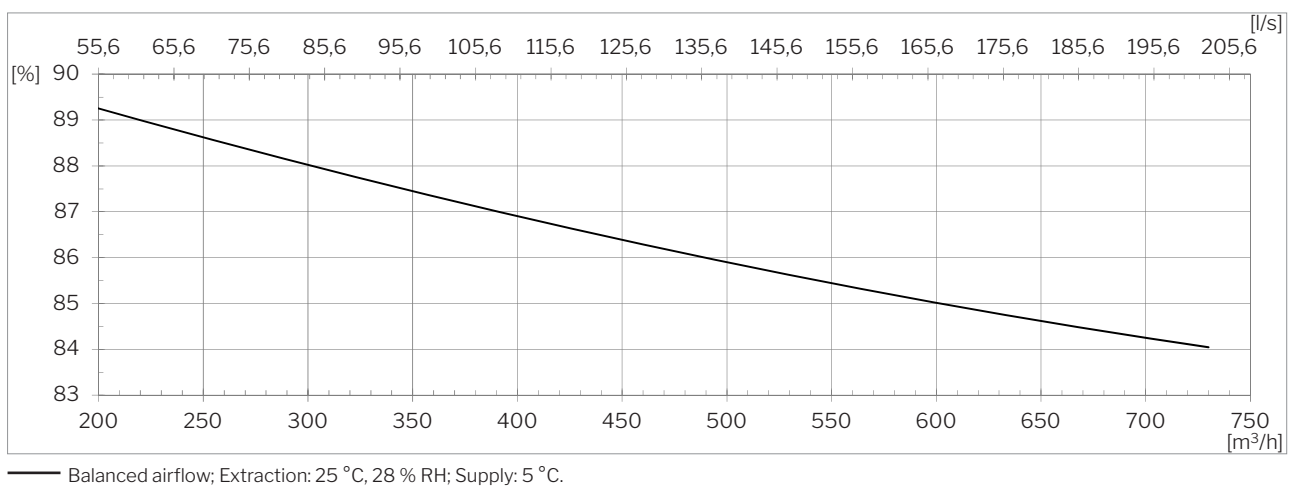


Sound Power Level L_{WA} [dB(A)], acc. to EN/ISO 3744:

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

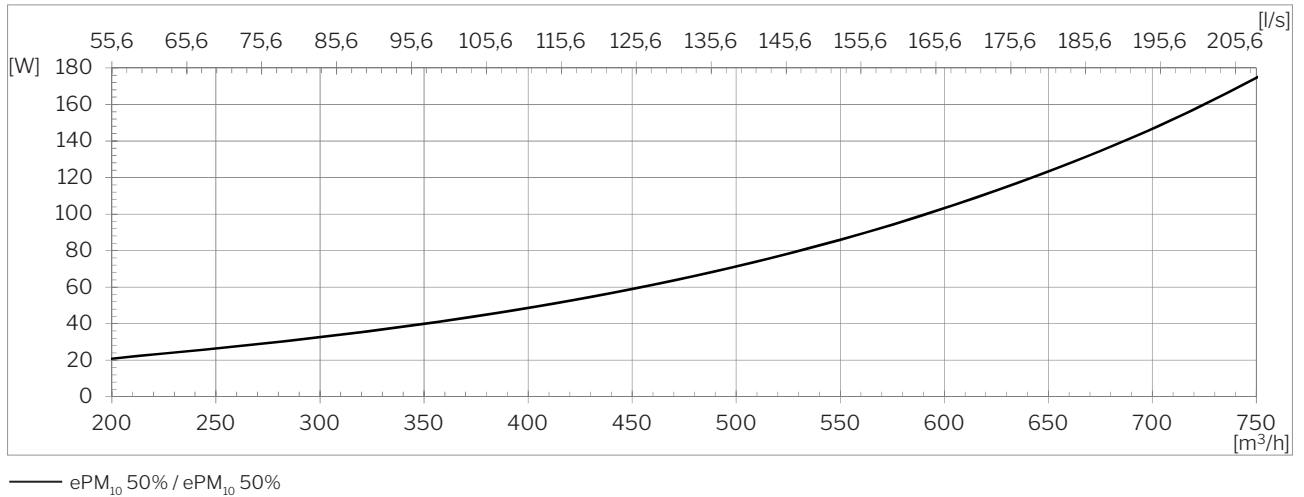
Temperature efficiency acc. EN 308



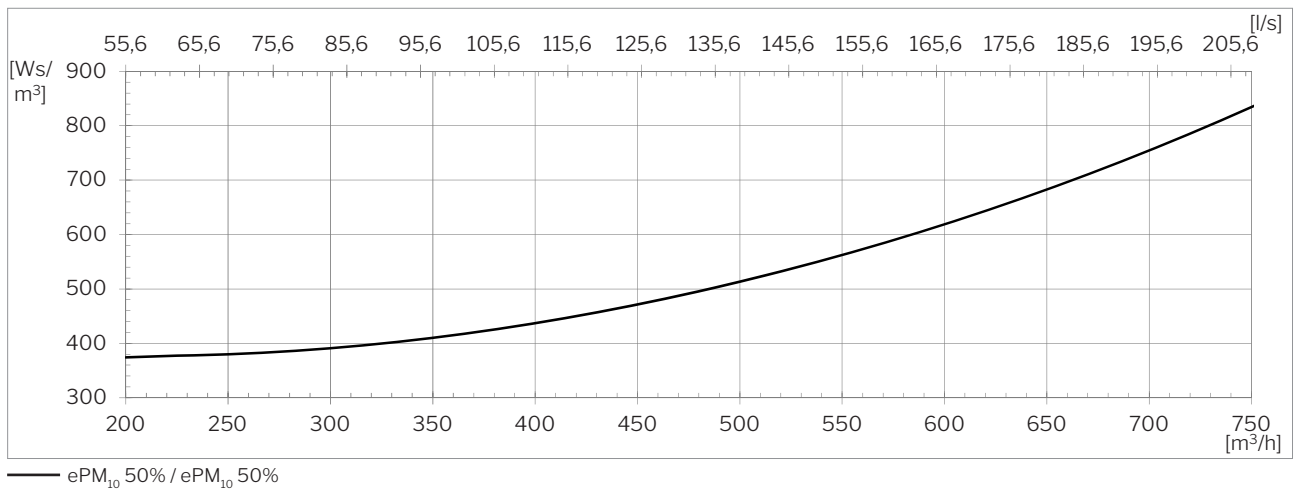
⁵ Sound pressure level $L_{pA,eq}$ is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m³ and a reverberation time of T = 0.6 s, corresponding to a room attenuation of 7.5 dB.

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.

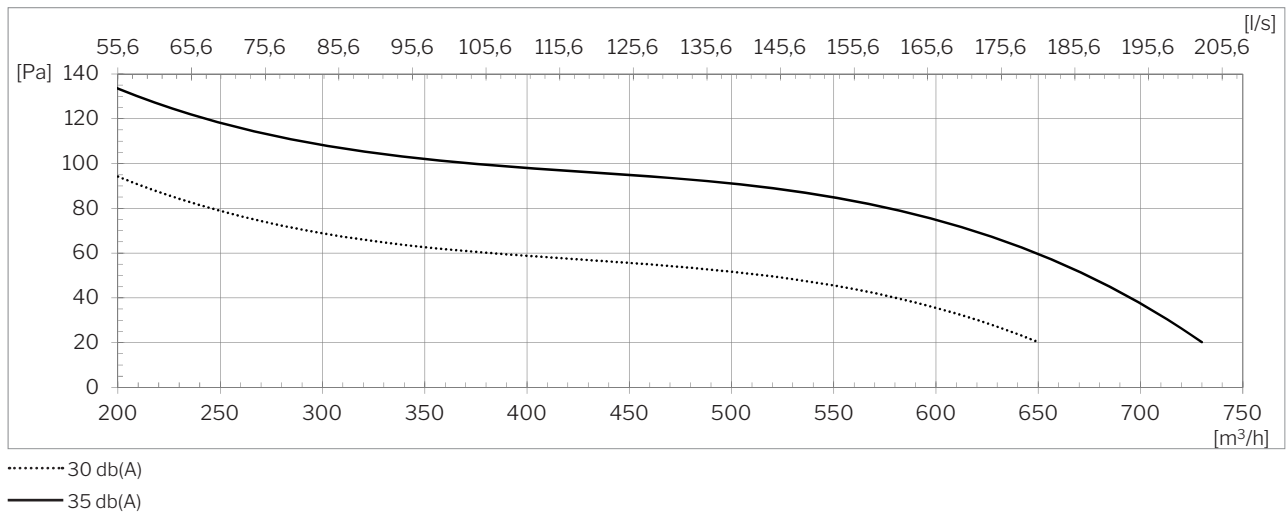
Power consumption ⁷



SFP ⁷



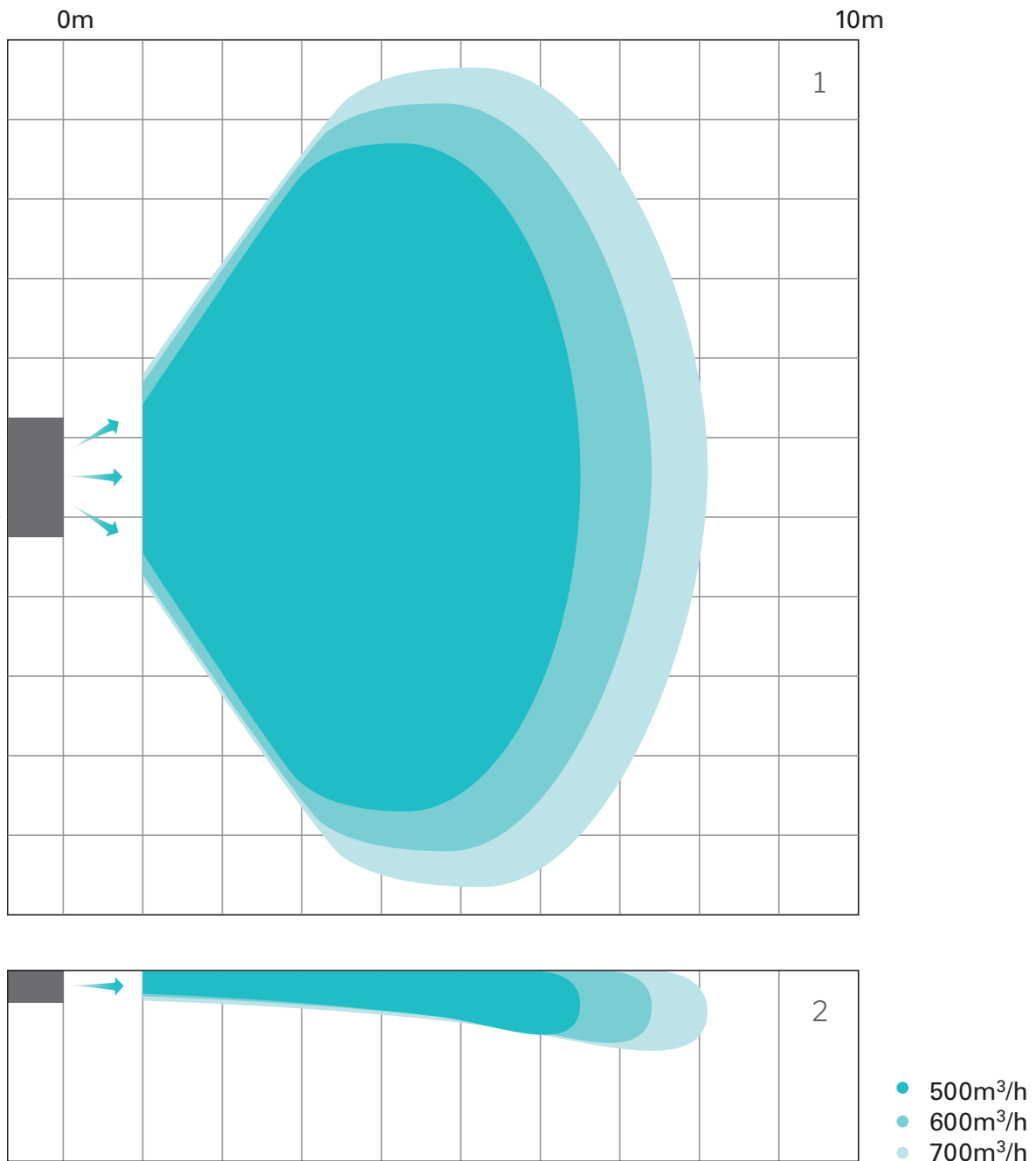
External pressure loss ⁷



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

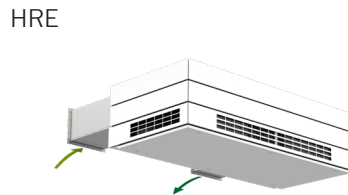
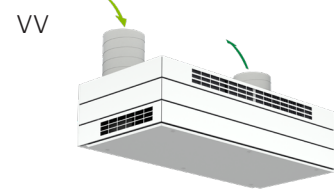
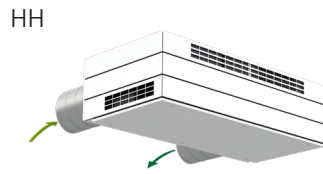
2 Throw seen from the side

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Version overview

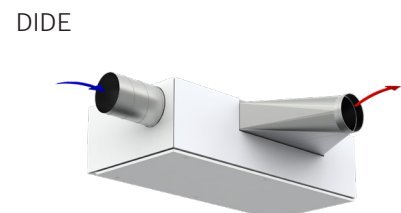
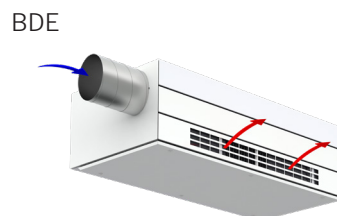
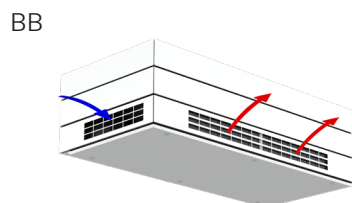
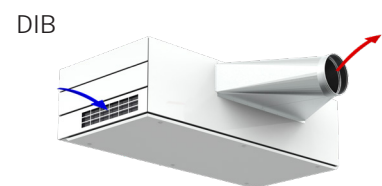
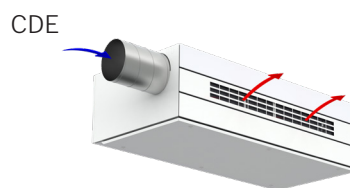
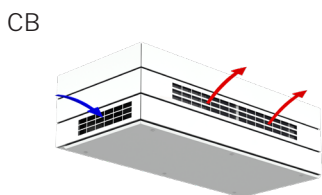
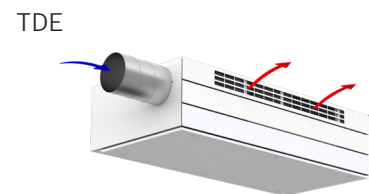
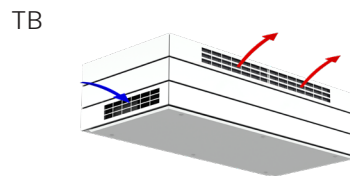
Exhaust and supply

H: Horizontal
V: Vertical
HRE: Horizontal Rectangular



Inlet and extract

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

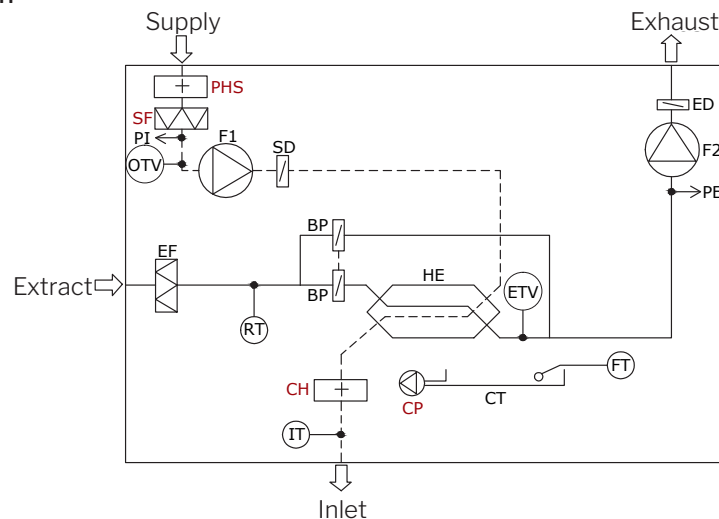


Standard and options

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)
CH	Electric comfort heating surface (option)
CP	Condensate pump (option)
CT	Condensate tray
ED	Exhaust air damper (motor-driven)
EF	Extract air filter

ETV	Exhaust temperature sensor
FT	Float
F1	Supply air fan
F2	Extract air fan
HE	Counterflow heat exchanger
IT	Inlet-air temperature sensor
OTV	Supply air temperature sensor

PE	Flow meter, extracted air (only available with AQC-P - grey control box)
PHS	Preheating surface (option)
PI	Flow meter, supply air (only available with AQC-P - grey control box)
RT	Room temperature sensor
SD	Supply air damper (Motor-driven)
SF	Supply air filter (option)