



AIRMASTER

Datasheet AM 1200 H

Technical data	Filter class	30 dB(A)	33 dB(A)	35 dB(A)
Maximum capacity ¹	ePM ₁₀ 50%	930 m³/h	1055 m³/h	1180 m³/h
Horizontal model, right/left:	ePM ₁ 55%	837 m³/h	950 m³/h	1062 m³/h
	ePM ₁ 80%	744 m³/h	844 m³/h	944 m³/h
Maximum capacity ¹	ePM ₁₀ 50%	1050 m³/h	1180 m³/h	1310 m³/h
Horizontal model, center:	ePM ₁ 55%	945 m³/h	1062 m³/h	1179 m³/h
	ePM ₁ 80%	840 m³/h	944 m³/h	1048 m³/h
Throw length (0.2 m/s) ¹ - right/left		min. max. min. max.	4 m v. 1000 m³/h 9 m v. 1000 m³/h 5.5 m v. 1300 m³/h 11 m v. 1300 m³/h	
Throw length (0.2 m/s) ¹ - center:		min. max. min. max.	3 m v. 1000 m³/h 6.5 m v. 1000 m³/h 4 m v. 1300 m³/h 8 m v. 1300 m³/h	
Supply air filter		ePM ₁₀ 50%, ePM ₁ 55% or ePM ₁ 80%		
Extract air filter		ePM ₁₀ 50%		
Dimensions (BxHxD)		Horizontal: Vertical:	496 x 2098 x 2427 mm 496 x 2406 x 2427 mm	
Weight, including painted panels		Right-/left model: Center model:	545 kg 630 kg	
Color casing		RAL 7024		
Counterflow heat exchanger		4 x Aluminum		
Air leakage classification cf. EN1886/EN13141-7		Class L2 / A2		
Air leakage classification main damper, cf. EN1751		Class 3		
IP code		10		
Duct connection		Ø400 mm		
Condensate pump (Capacity ; Lifting height at 5 l/h)		10 l/h ; 6 m		
Condensate drain hose int./ext. diameter		Ø4 mm / Ø6 mm		
Supply voltage		220-240V/50Hz, ~1N+PE 220-240V/50Hz, ~3N+PE		
Maximum power consumption ¹		684 W		
Maximum current ¹		5.47 A		
Power factor		0.54		
Maximum fuse		16 A (1 phase, type B) 3 x 16 A (3 phases, type B). When choosing a pre-heating surface, a 3-phase connection must be used		
Leakage current AC / DC		≤ 9 mA		
Recommended residual current bicuit breaker (RCCB)		Type B		

¹ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

² The supply can be limited to a single-phase, connected to L1. Only for air handling units without electric heating surface.

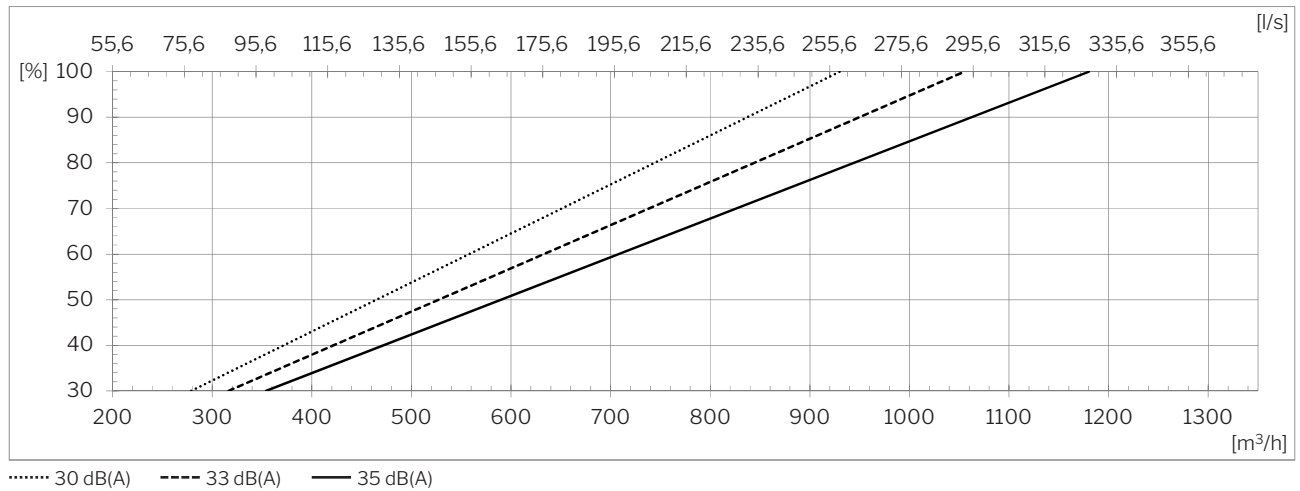
Electrical heating surfaces	Preheating surface	Comfort heating surface
Heat output	2500 W	1670 W
Nominal current	10.9 A	7.3 A
Thermal circuit breaker, manual reset	100 °C	100 °C

Water heating surface	
Nominal heat output ³	2454 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

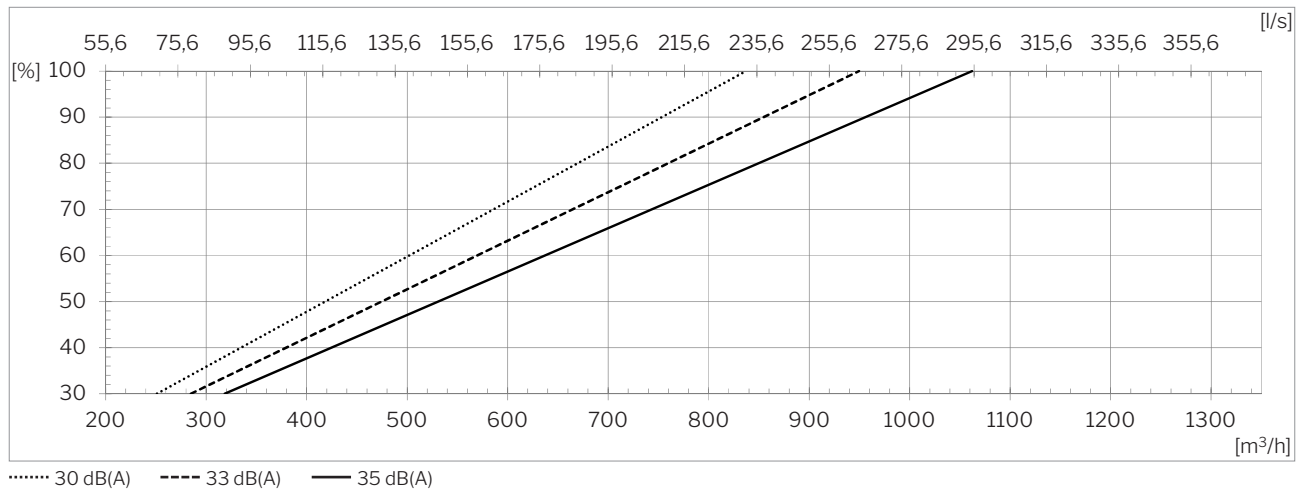
³ Heat output for maximum capacity at 35 dB(A), delivery/return temperature 60/40°C and a liquid flow of 107 l/h.

AM 1200 H - R/L

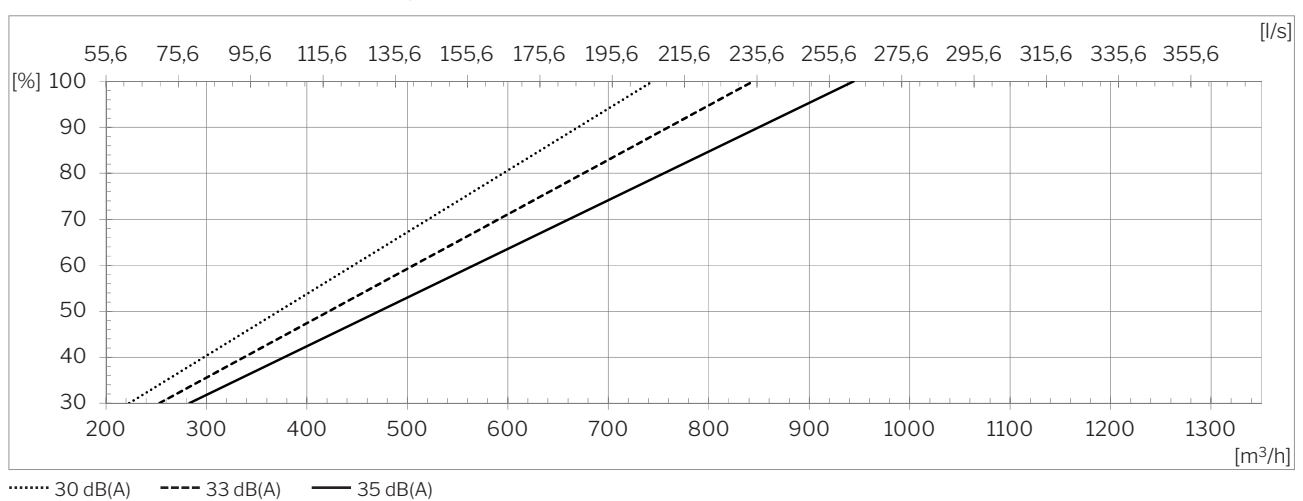
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁴



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁴



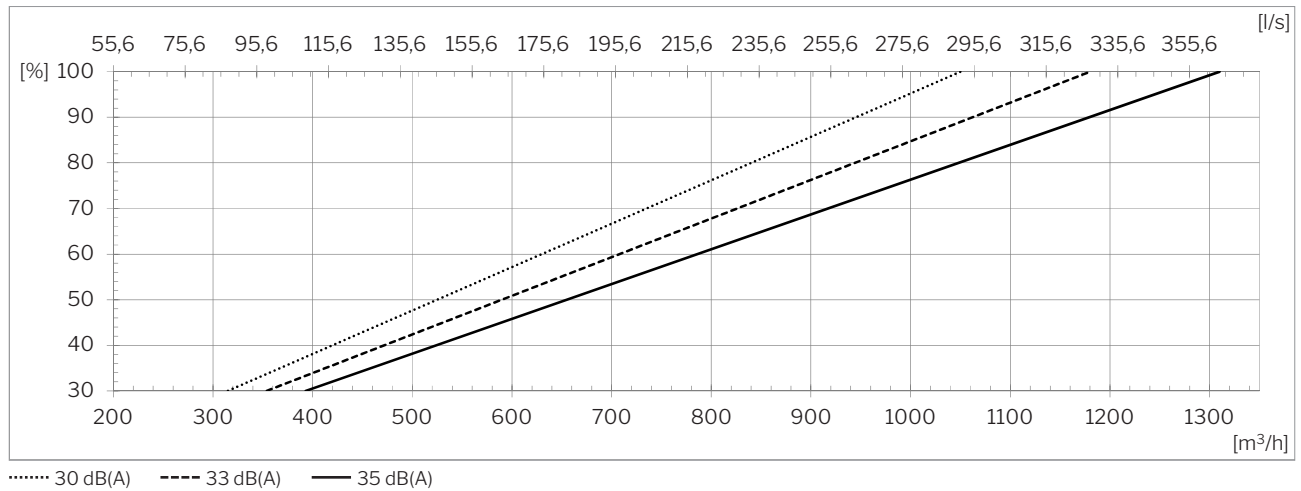
Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁴



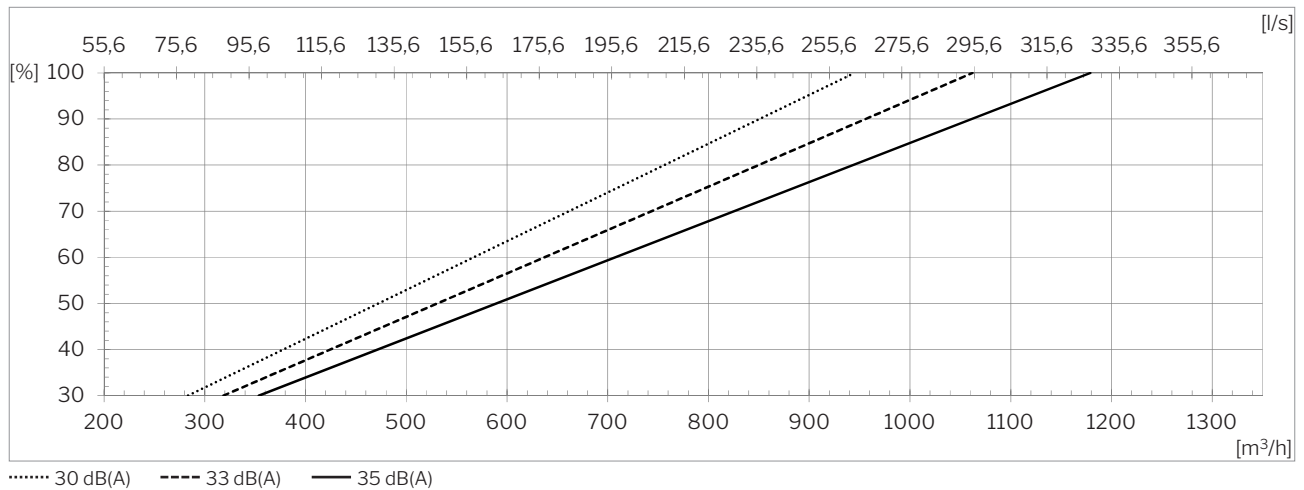
⁴ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

AM1200 H - C

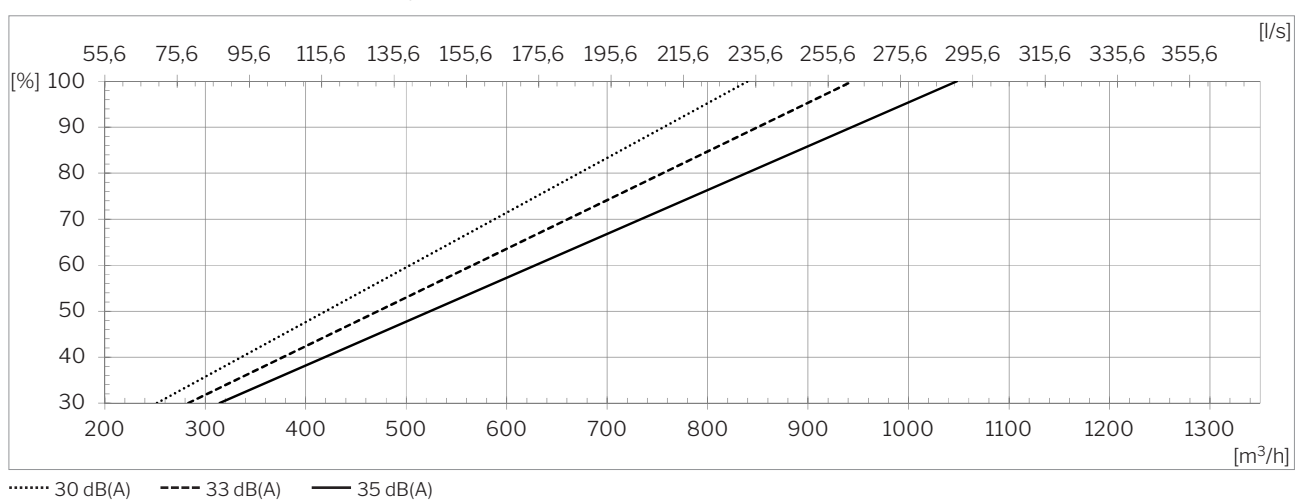
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁵



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁵

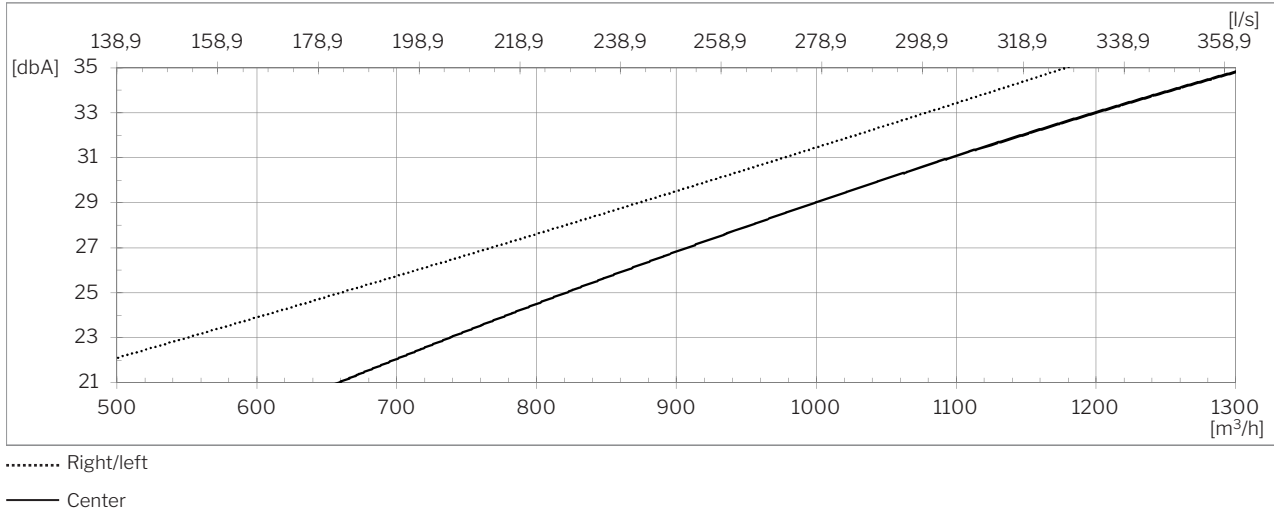


Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁵

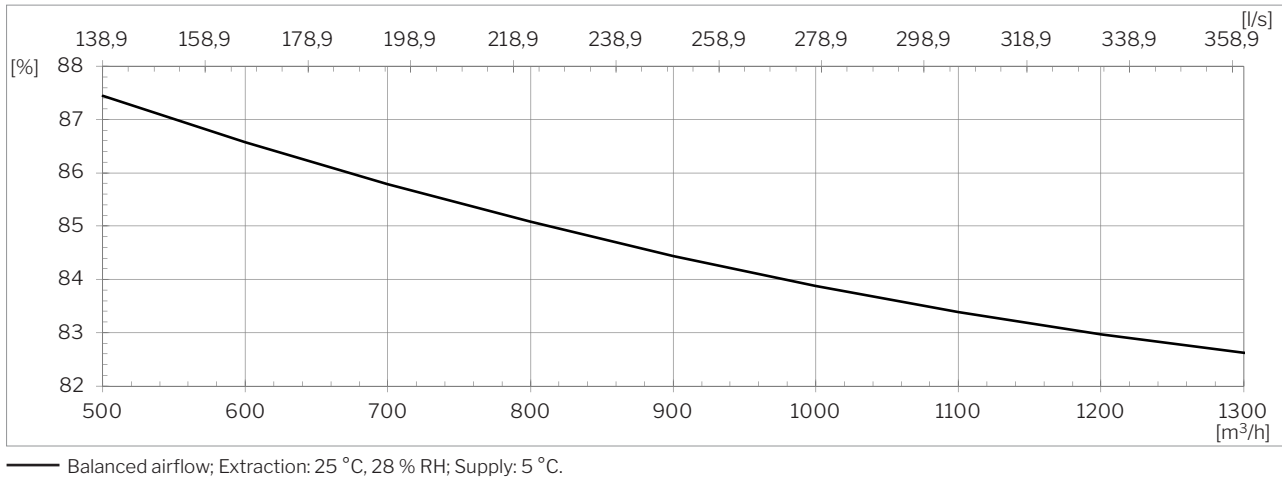


⁵ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

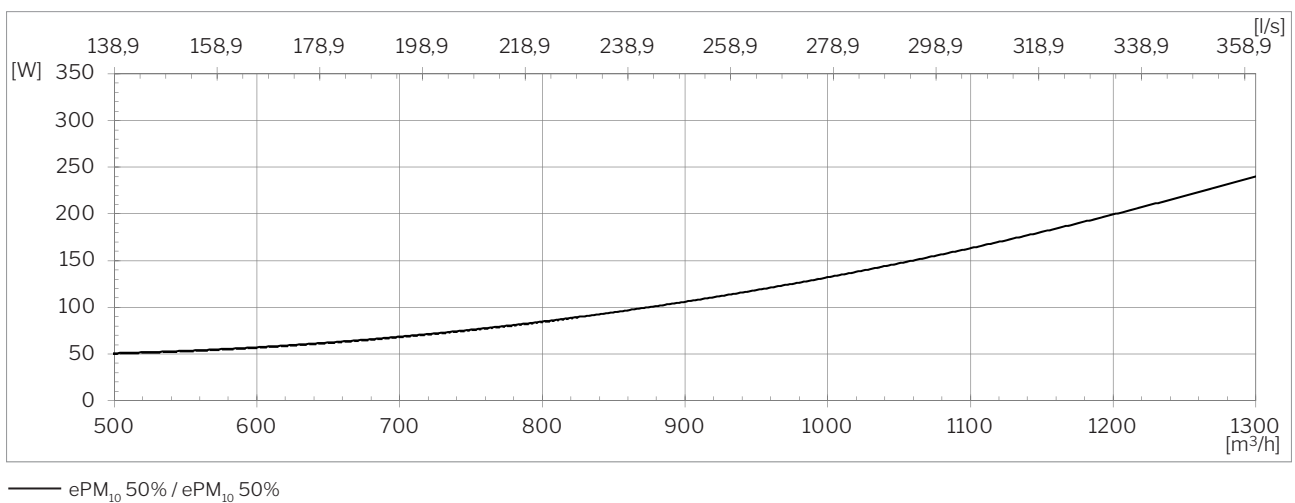
Sound pressure ⁶ $L_{pA,eq}$ acc. Airmaster reference situation



Temperature efficiency acc. EN 308



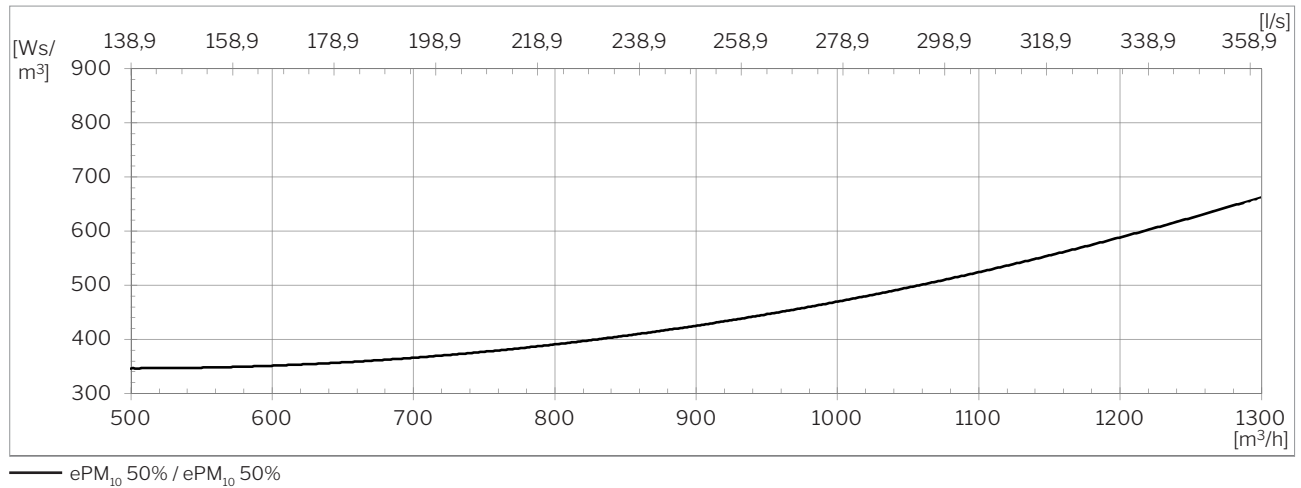
Power consumption ⁷



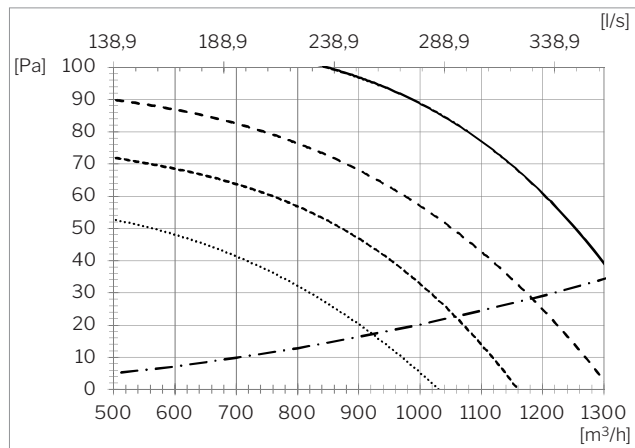
⁶ Sound pressure level $L_{pA,eq}$ is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m³ and a reverberation time of $T = 0.6$ s, corresponding to a room attenuation of 7.5 dB.

⁷ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

SFP⁸

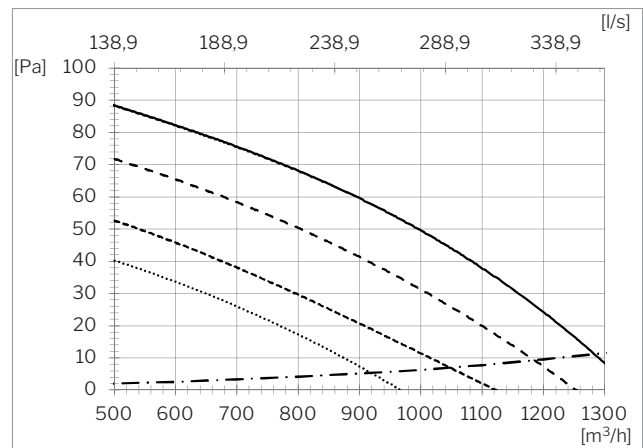


External pressure loss - Supply air⁸



- Center, 35 dB(A), ePM10 50% filter
- - - Right/left, 35 dB(A), ePM10 50% filter
- Center, 30 dB(A), ePM10 50% filter
- . - . Right/left, 30 dB(A), ePM10 50% filter
- - - Recommended roof caps Ø400

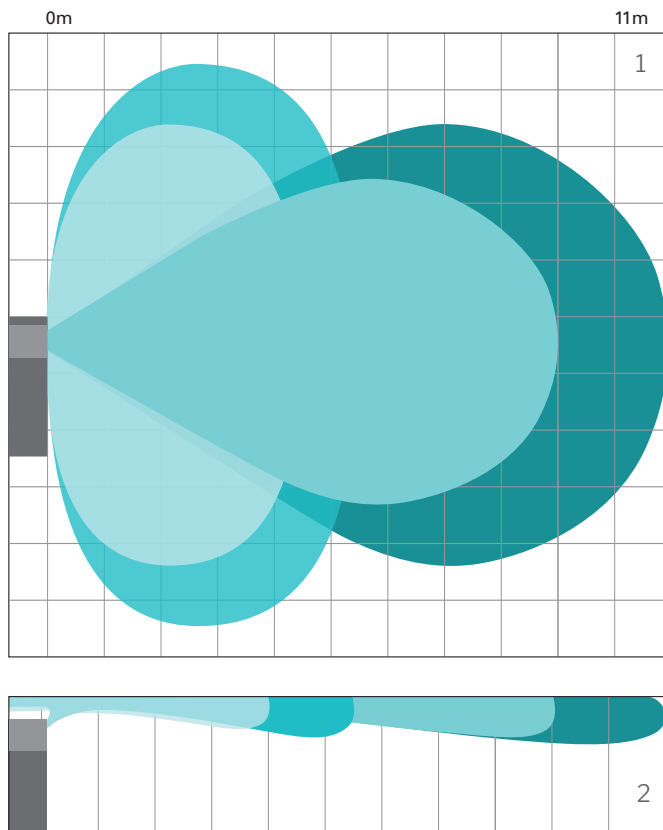
External pressure loss - Extract air⁸



- Center, 35 dB(A), ePM10 50% filter
- - - Right/left, 35 dB(A), ePM10 50% filter
- Center, 30 dB(A), ePM10 50% filter
- . - . Right/left, 30 dB(A), ePM10 50% filter
- - - Recommended roof caps Ø400

⁸ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

Throw length (0.2 m/s)



1300 m³/h

- Max.
- Min.

1000 m³/h

- Max.
- Min.

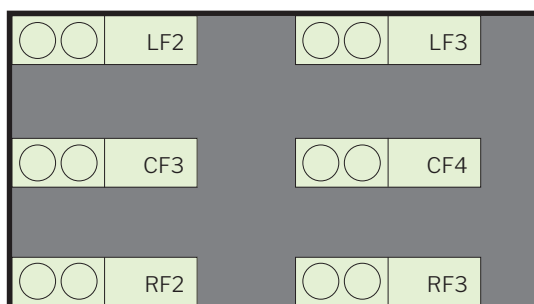
The AM 1200 unit spreads an air stream in different directions, depending on the given airflow.

This can be seen in the illustration, in which the blue shading indicates throw length the different airflows.

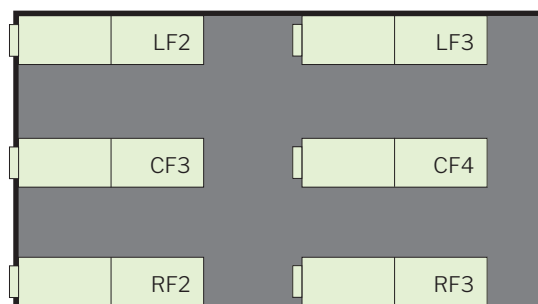
¹Throw length seen from above.

²Throw length seen from the side.

Variants



AM 1200 VRF2 (right, with 2 open sides)
 AM 1200 VRF3 (right, with 3 open sides)
 AM 1200 VCF3 (centre, with 3 open sides)
 AM 1200 VCF4 (centre, with 4 open sides)
 AM 1200 VLF2 (left, with 2 open sides)
 AM 1200 VLF3 (left, with 3 open sides)



AM 1200 HRF2 (right, with 2 open sides)
 AM 1200 HRF3 (right, with 3 open sides)
 AM 1200 HCF3 (centre, with 3 open sides)
 AM 1200 HCF4 (centre, with 4 open sides)
 AM 1200 HLF2 (left, with 2 open sides)
 AM 1200 HLF3 (left, with 3 open sides)

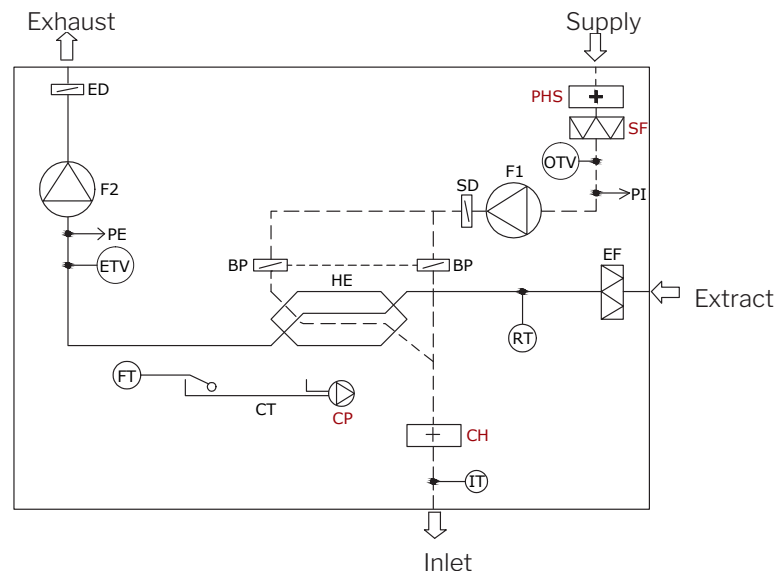
Standard and options

Counterflow heat exchanger (aluminum)	x
Enthalpy counterflow heat exchanger (Polymer membrane)	o
Combination counterflow heat exchanger (Polymer membrane)	o
Motor-driven bypass	x
Sprint-return motor driven exhaust air damper	x
Spring-return motor driven supply air damper	x
Electric preheating surface	▪
Electric comfort heating surface	▪
Water heating surface	▪
Condensate pump	▪
PIR/motion sensor (wall-mounted)	▪
CO ₂ -sensor (wall-mounted)	▪
CO ₂ -sensor (built-in)	▪
TVOC-sensor (built-in)	▪
CO ₂ -/TVOC-sensor (built-in)	▪
Hygrostat (wall-mounted)	o

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

Energy meter	▪
Supply air filter ePM ₁₀ 50%	▪
Supply air filter ePM ₁ 55%	▪
Supply air filter ePM ₁ 80%	○
Extract air filter ePM ₁₀ 50%	×
Airlinq Viva control panel	▪
Airlinq Orbit control panel	▪
Airmaster Airlinq® Online	▪
Airlinq® Online API	▪
Airlinq® BMS	▪
LON® module	○
KNX® module	○
MODBUS® RTU RS485 module	▪
BACnet™ MS/TP module	▪
BACnet™ /IP module	▪

Schematic sketch



Component designation

Component designation		EF	Extract air filter	OTV	Supply air temperature sensor
BP	Bypass damper (motor-driven)	ETV	Exhaust temperature sensor	PE	Flow meter, extracted air
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
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)
		IT	Inlet-air temperature sensor	SF	Supply air filter (option)