



Datasheet AM 1200 H

| Technical data | Filter class | 30 dB(A) | 33 dB(A) | 35 dB(A) | Boost |
|--|---|---------------------------------|------------------------|------------------------|------------------------|
| Maximum capacity ¹ | ePM ₁₀ 50% | 930 m ³ /h | 1055 m ³ /h | 1180 m ³ /h | 1600 m ³ /h |
| Horizontal model, right/left: | ePM ₁ 55% | 837 m ³ /h | 950 m ³ /h | 1062 m ³ /h | 1600 m ³ /h |
| | ePM ₁ 80% | 744 m ³ /h | 844 m ³ /h | 944 m ³ /h | 1600 m ³ /h |
| Maximum capacity ¹ | ePM ₁₀ 50% | 1050 m ³ /h | 1180 m ³ /h | 1310 m ³ /h | 1600 m ³ /h |
| Horizontal model, center: | ePM ₁ 55% | 945 m ³ /h | 1062 m ³ /h | 1179 m ³ /h | 1600 m ³ /h |
| | ePM ₁ 80% | 840 m ³ /h | 944 m ³ /h | 1048 m ³ /h | 1600 m ³ /h |
| Throw length (0.2 m/s) ¹ - right/left | min. | 4 m v. 1000 m ³ /h | | | |
| | max. | 9 m v. 1000 m ³ /h | | | |
| Throw length (0.2 m/s) ¹ - center: | min. | 5.5 m v. 1300 m ³ /h | | | |
| | max. | 11 m v. 1300 m ³ /h | | | |
| Supply air filter | ePM ₁₀ 50%, ePM ₁ 55% or ePM ₁ 80% | | | | |
| Extract air filter | ePM ₁₀ 50% | | | | |
| Dimensions (WxDxH) | Horizontal: | 2427 x 496 x 2098 mm | | | |
| | Vertical: | 2427 x 496 x 2406 mm | | | |
| Weight, including painted panels | Right-/left model: | 565 kg | | | |
| | Center model: | 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 | 1x | | | | |
| Duct connection | Ø400 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 ² | 220-240V/50Hz, ~1N+PE | | | | |
| | 220-240V/50Hz, ~3N+PE | | | | |
| Nominal power consumption ¹ | 254 W | | | | |
| Nominal current ¹ | 1.4 A | | | | |
| Power factor | 0.6 | | | | |
| 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 breaker (RCCB) | Type F / 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.

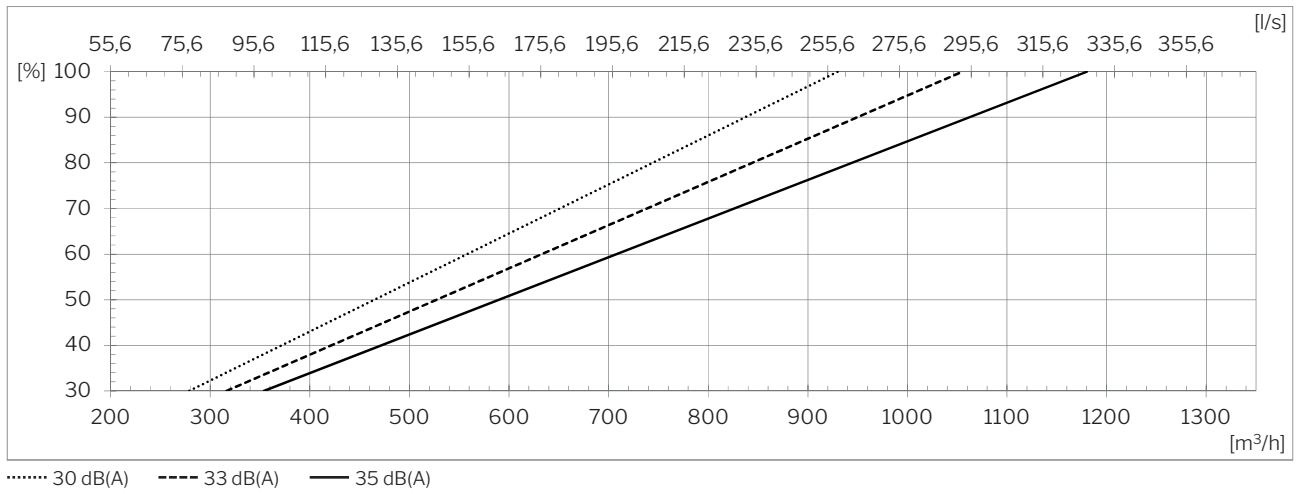
| Electrical heating surfaces | Preheating surface | Comfort heating surface |
|---------------------------------------|---------------------------|--------------------------------|
| Heat output | 2500 W | 1670 W |
| Nominal current | 10.9 A | 7.3 A |
| Thermal circuit breaker, manual reset | 100 °C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

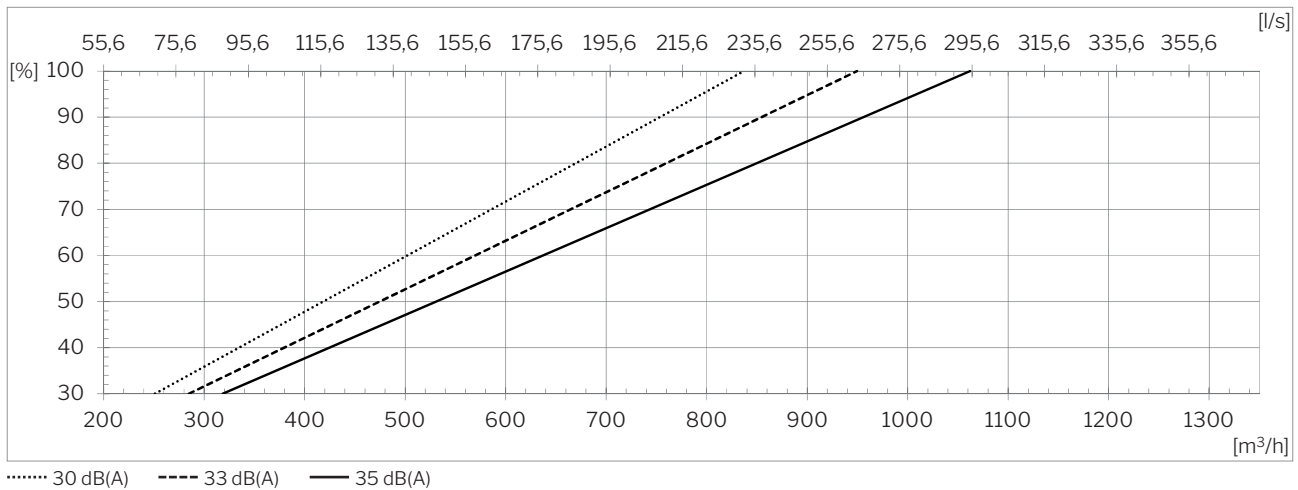
³ Heat output for maximum capacity at 35 dB(A), delivery/return temperature 60/40°C and a liquid flow of 107 l/h.

AM 1200 H - R/L

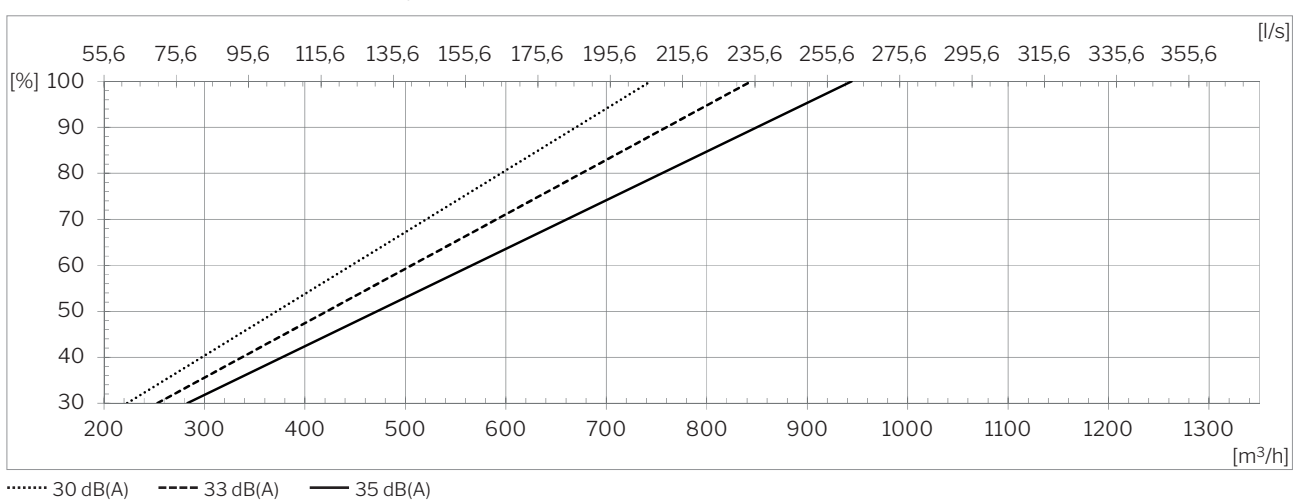
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁴



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁴



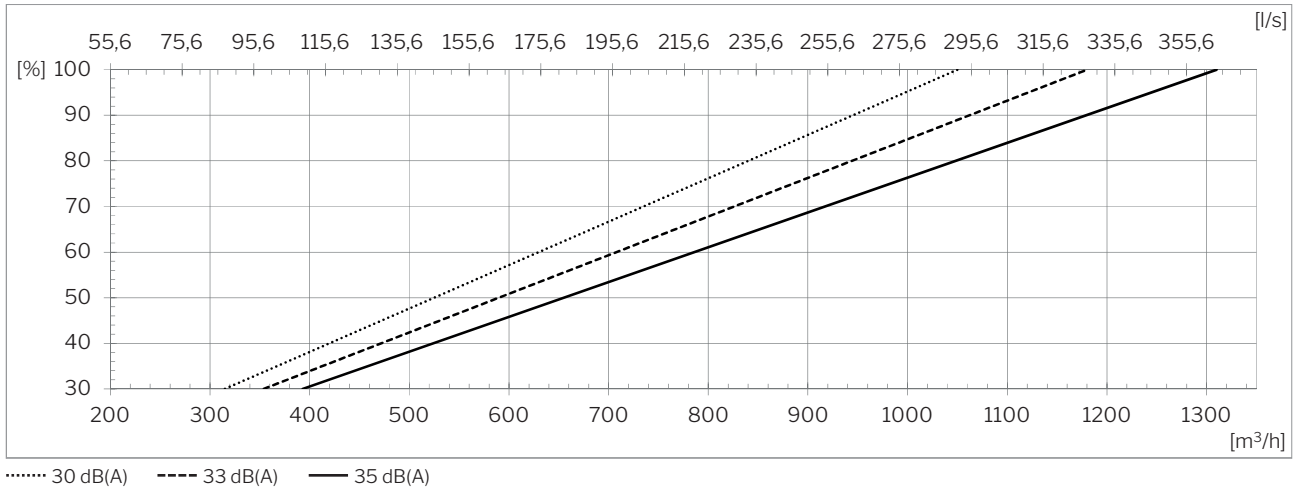
Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁴



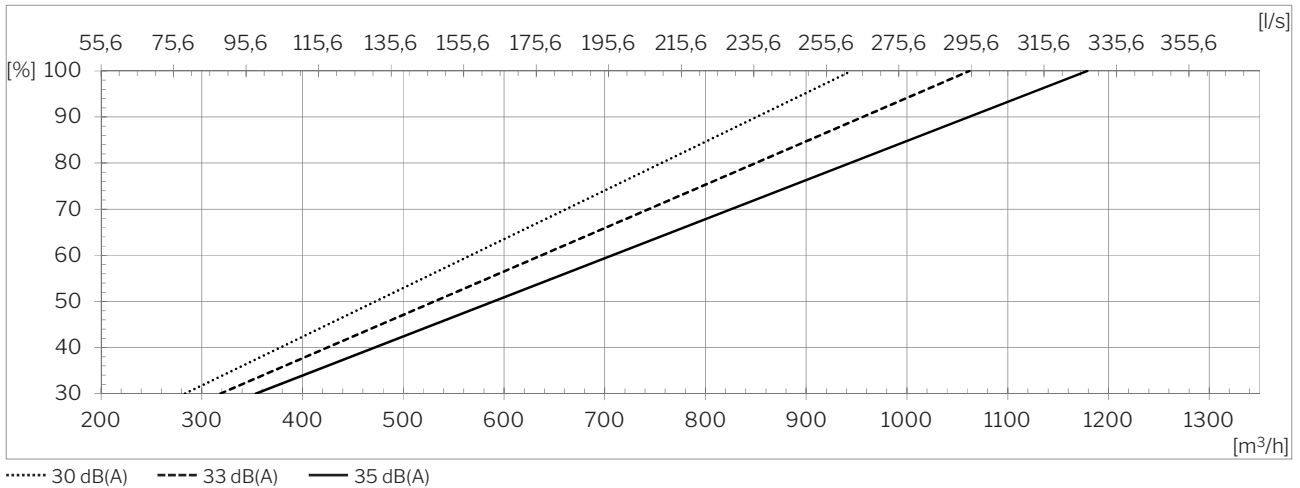
⁴ All measurements were performed in normal operating mode in a standard installation using the facade grills Ø400 recommended by Airmaster.

AM1200 H - C

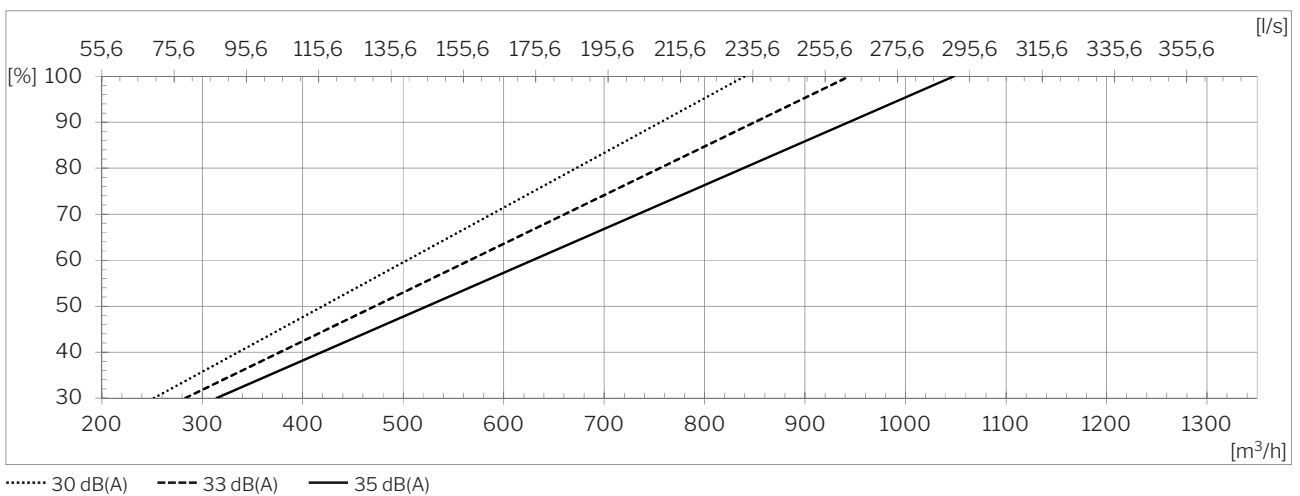
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters ⁵



Capacity with ePM₁ 55% / ePM₁₀ 50% filters ⁵

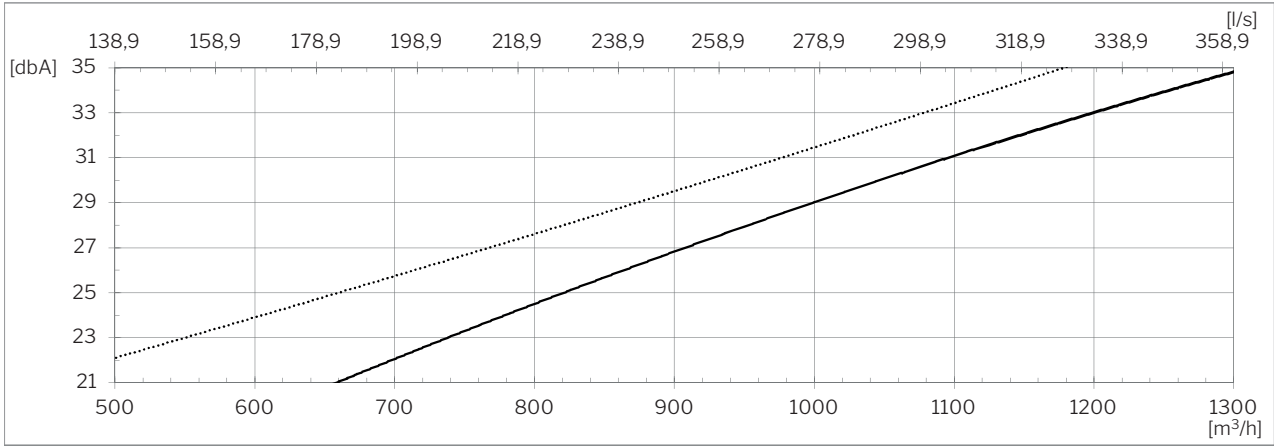


Capacity with ePM₁ 80% / ePM₁₀ 50% filters ⁵



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

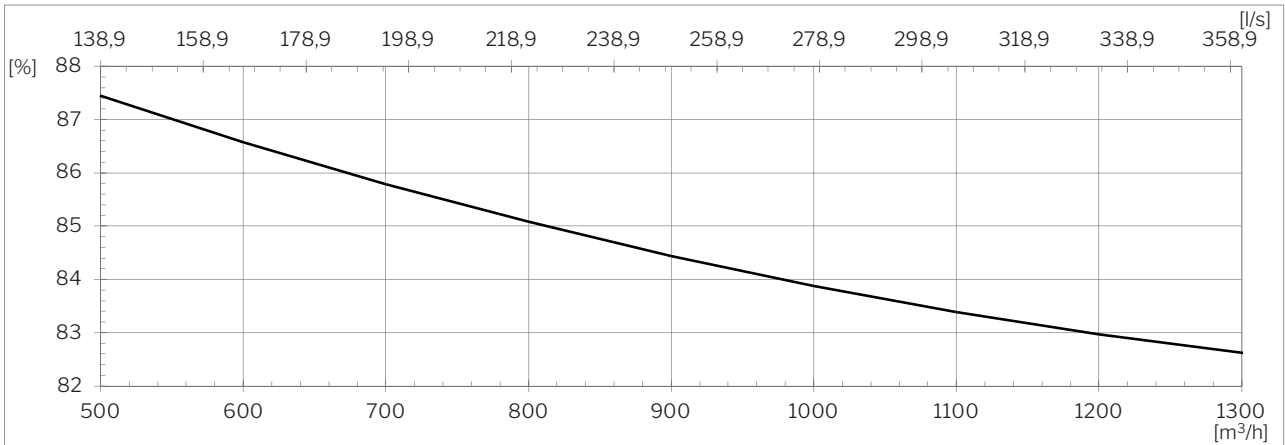
Sound pressure ⁶L_{pA,eq} acc. Airmaster reference situation



..... Right/left

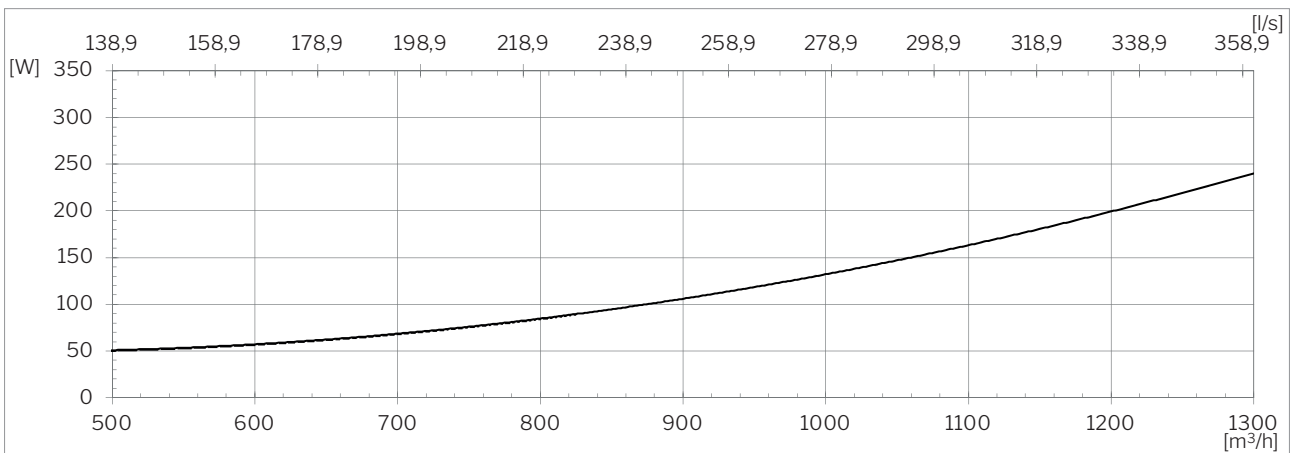
— Center

Temperature efficiency acc. EN 308



— Balanced airflow; Extraction: 25 °C, 28 % RH; Supply: 5 °C.

Power consumption ⁷

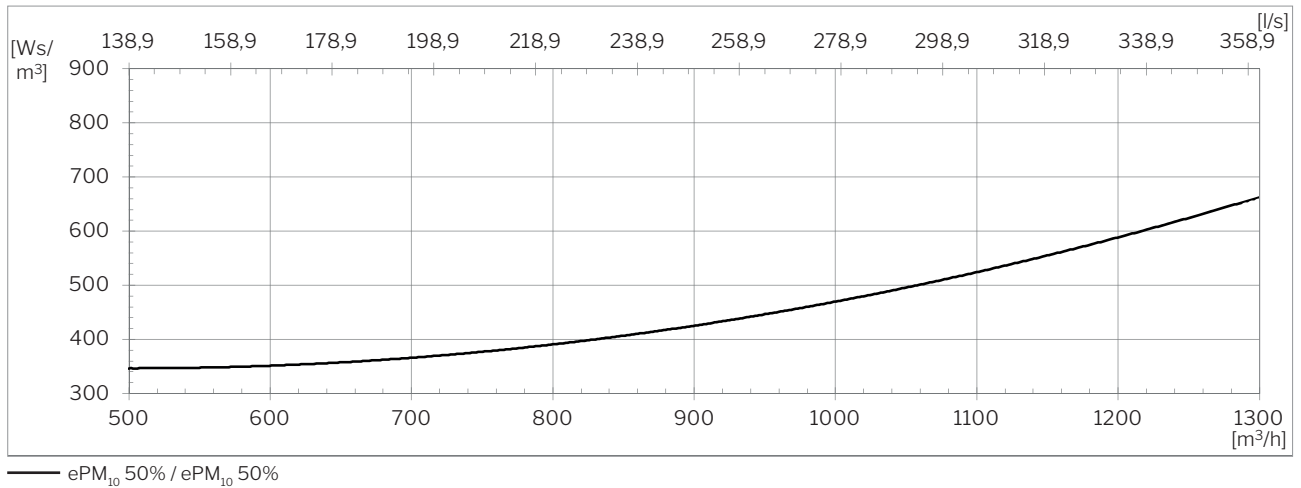


— ePM₁₀ 50% / ePM₁₀ 50%

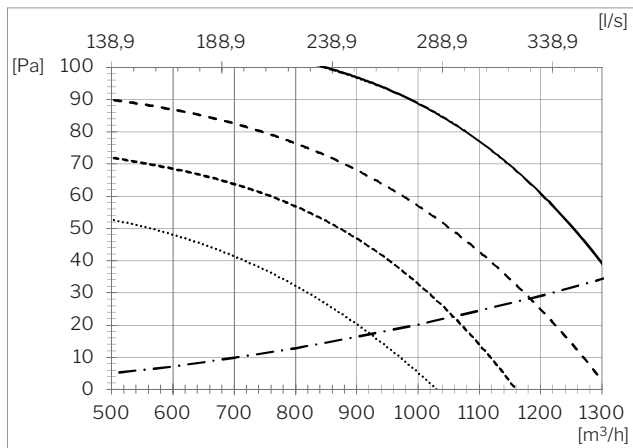
⁶ Sound pressure level L_{pA,eq} is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m³ and a reverberation time of T = 0.6 s, corresponding to a room attenuation of 7.5 dB.

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

SFP⁸

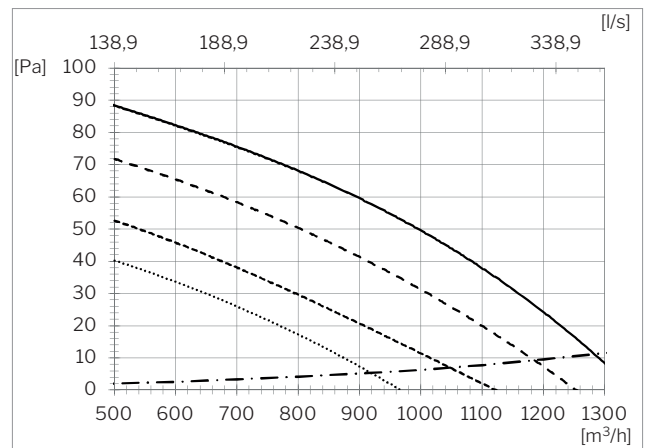


External pressure loss - Supply air⁸



- 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
- · - · - Standard grille Ø400

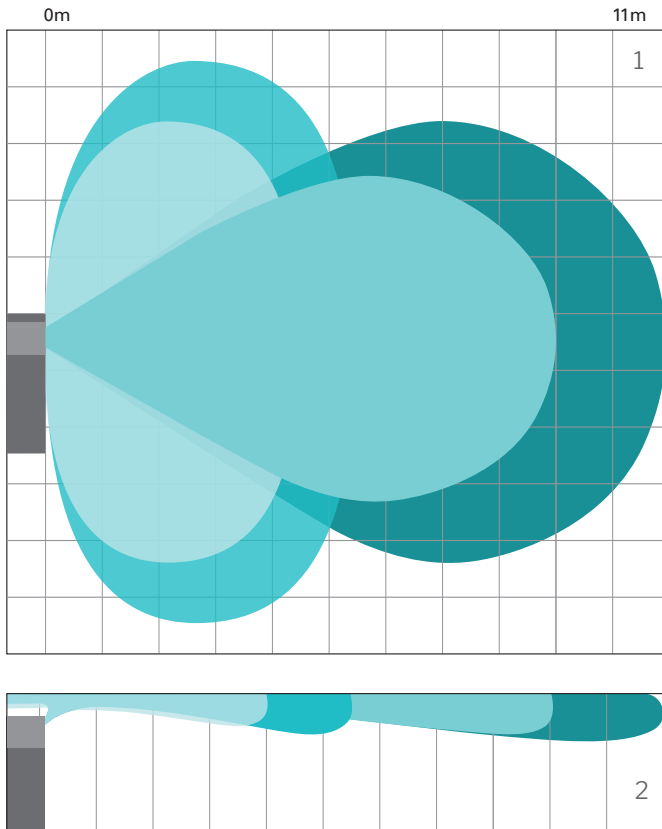
External pressure loss - Extract air⁸



- 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
- · - · - Standard grille 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.

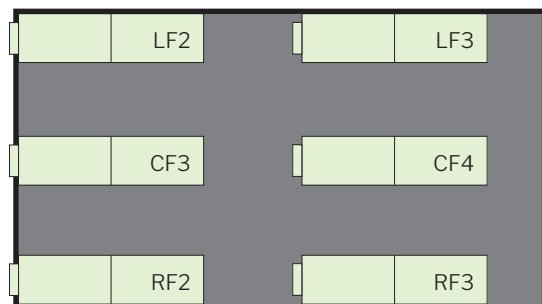
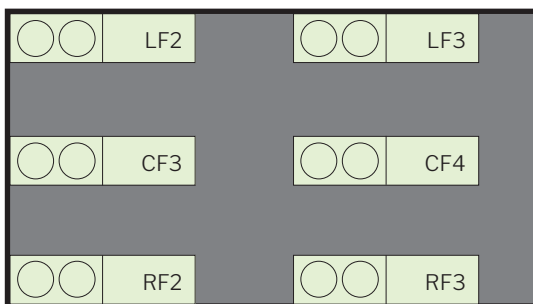
The AM 1200 unit spreads an air stream in different directions, depending on the given airflow.

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)

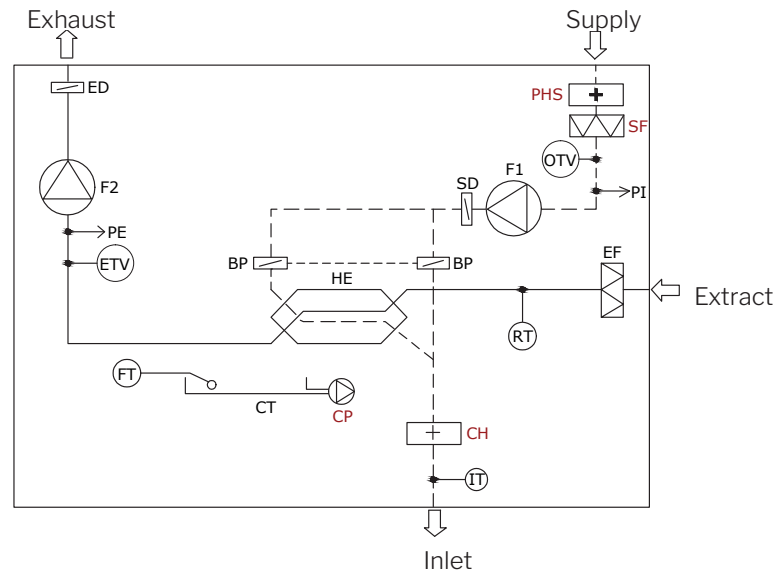
Standard and options

| | |
|---|---|
| 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) | ▪ |
| Hygostat (wall-mounted) | o |

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

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

Schematic sketch



Component designation

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