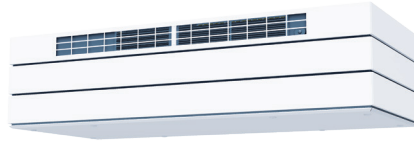


## Datasheet AM 800



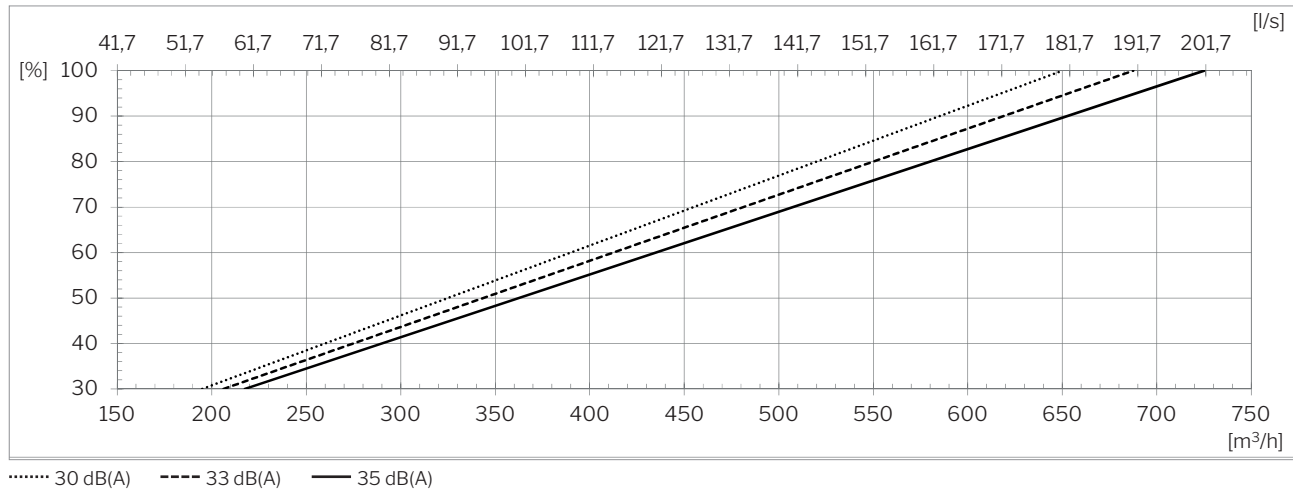
| Technical data                                       | Filter class                                                           | 30 dB(A)                  | 33 dB(A)                       | 35 dB(A)              |
|------------------------------------------------------|------------------------------------------------------------------------|---------------------------|--------------------------------|-----------------------|
| Maximum capacity <sup>1</sup>                        | ePM <sub>10</sub> 50%                                                  | 650 m <sup>3</sup> /h     | 688 m <sup>3</sup> /h          | 725 m <sup>3</sup> /h |
|                                                      | ePM <sub>1</sub> 55%                                                   | 585 m <sup>3</sup> /h     | 619 m <sup>3</sup> /h          | 653 m <sup>3</sup> /h |
|                                                      | ePM <sub>1</sub> 80%                                                   | 520 m <sup>3</sup> /h     | 550 m <sup>3</sup> /h          | 580 m <sup>3</sup> /h |
| Throw (0.2 m/s) <sup>2</sup>                         | ePM <sub>10</sub> 50%                                                  | 7.7 m                     | -                              | 8.3 m                 |
|                                                      | ePM <sub>1</sub> 55%                                                   | 7.2 m                     | -                              | 7.7 m                 |
|                                                      | ePM <sub>1</sub> 80%                                                   | 6.7 m                     | -                              | 7.2 m                 |
| Supply air filter                                    | ePM <sub>10</sub> 50%, ePM <sub>1</sub> 55% eller ePM <sub>1</sub> 80% |                           |                                |                       |
| Extract air filter                                   | ePM <sub>10</sub> 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 <sup>1</sup>               | 156 W                                                                  |                           |                                |                       |
| Nominal current <sup>1</sup>                         | 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                                                                 |                           |                                |                       |
| <b>Electrical heating surfaces</b>                   |                                                                        | <b>Preheating surface</b> | <b>Comfort heating surface</b> |                       |
| Heat output                                          |                                                                        | 1500 W                    | 1000 W                         |                       |
| Nominal current                                      |                                                                        | 6,5 A                     | 4,4 A                          |                       |
| Thermal circuit breaker, manual reset                |                                                                        | 100 °C                    | 100 °C                         |                       |
| <b>Water heating surface</b>                         |                                                                        |                           |                                |                       |
| Nominal heat output <sup>3</sup>                     |                                                                        | 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                     |                                |                       |

<sup>1</sup> 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.

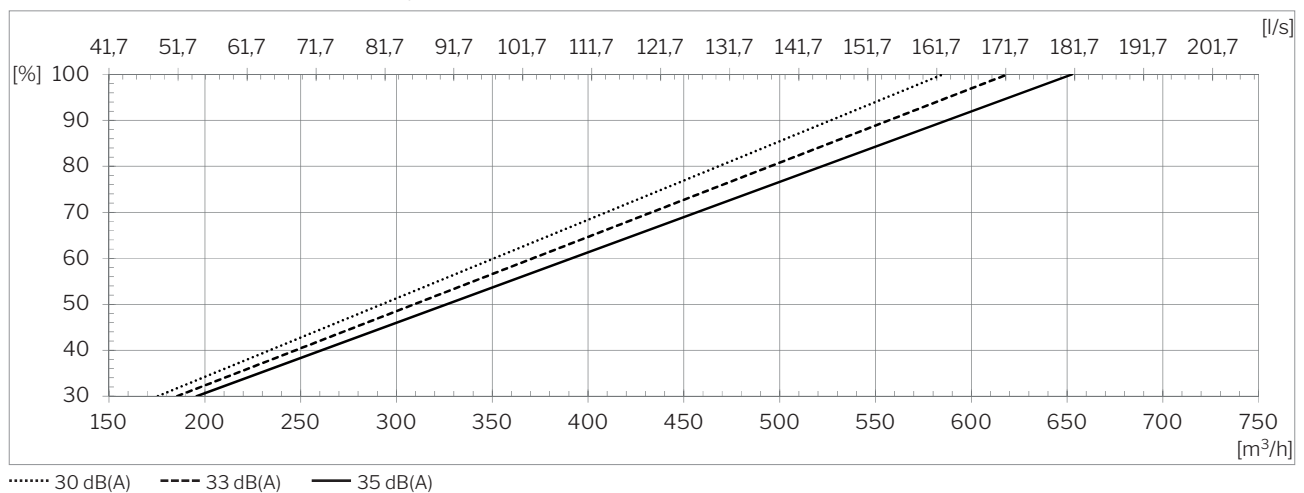
<sup>2</sup> Throw was measured with filter class: supply air ePM<sub>10</sub> 50% | Extract air ePM<sub>10</sub> 50%

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

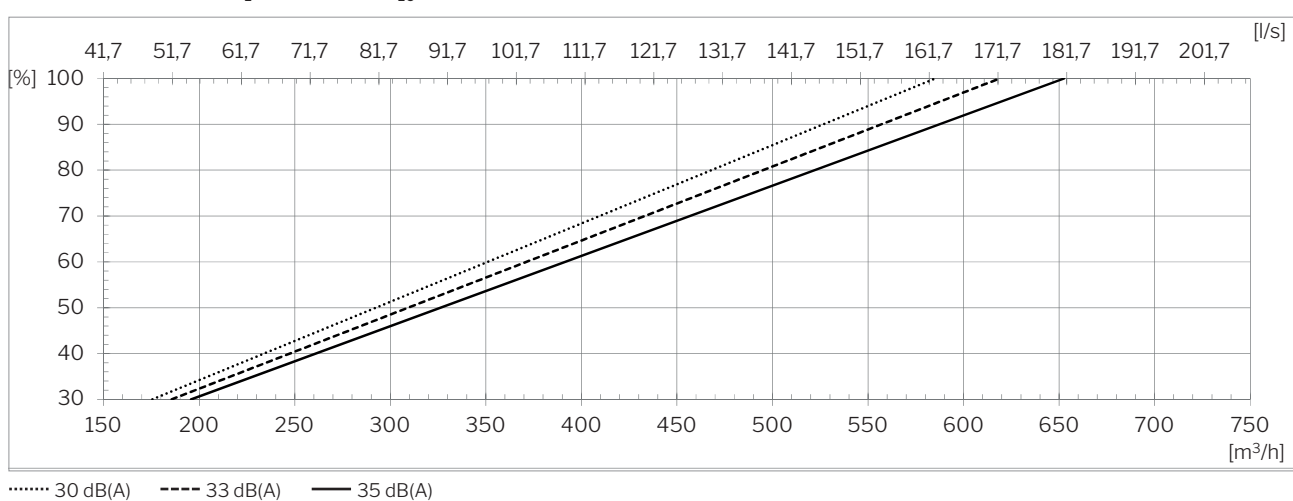
## Capacity with ePM<sub>10</sub> 50% / ePM<sub>10</sub> 50% filters <sup>4</sup>



## Capacity with ePM<sub>1</sub> 55% / ePM<sub>10</sub> 50% filters <sup>4</sup>

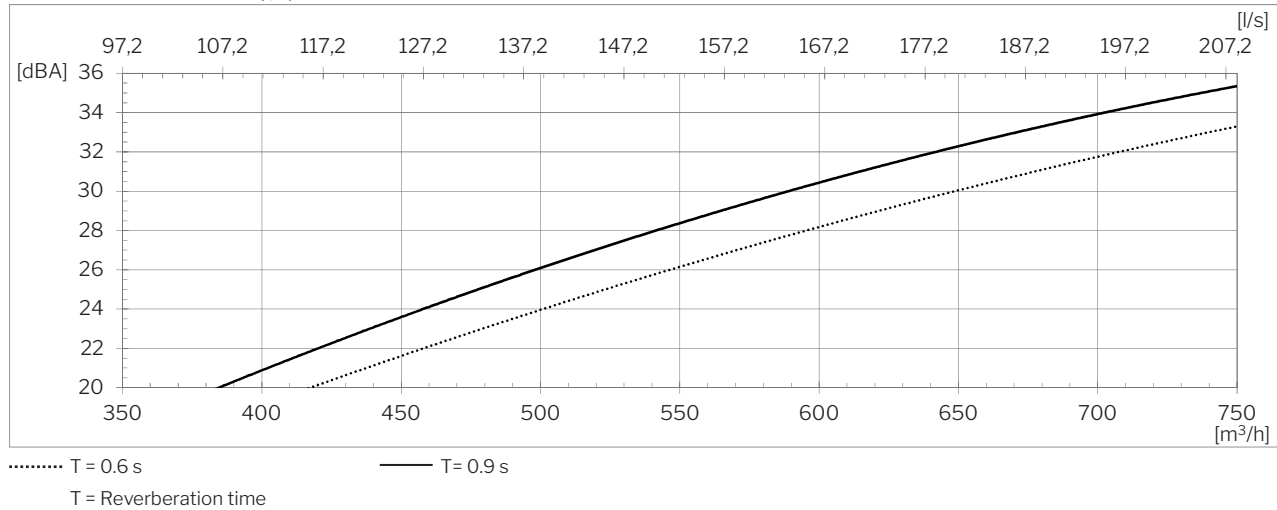


## Capacity with ePM<sub>1</sub> 80% / ePM<sub>10</sub> 50% filters <sup>4</sup>



<sup>4</sup> 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.

## Sound pressure <sup>5,6</sup> $L_{p,eq}$ acc. Airmaster reference situation

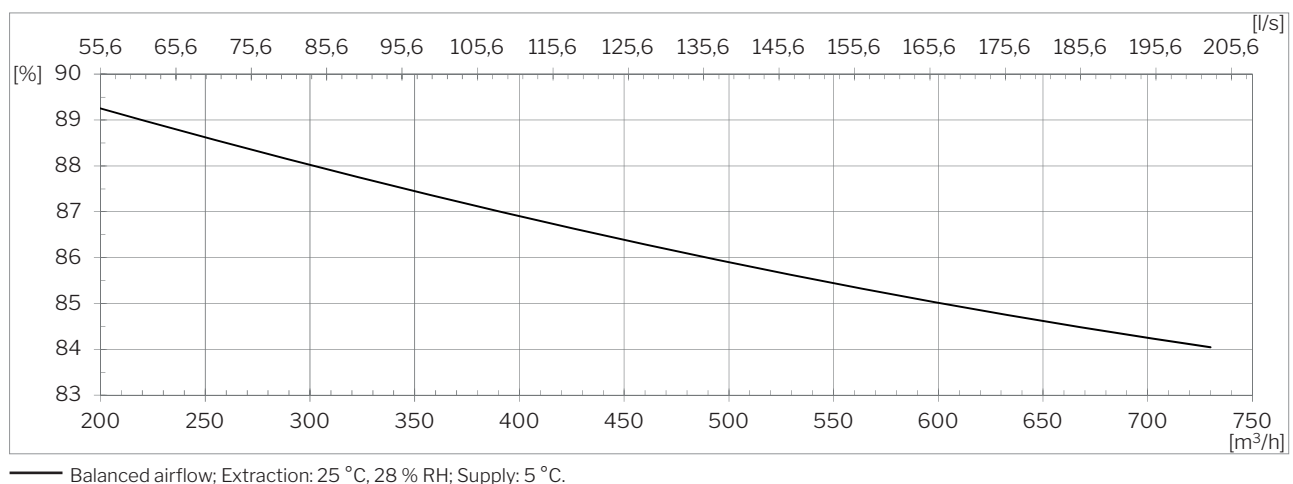


## Sound Power Level $L_{WA}$ [dB(A)], acc. to EN/ISO 3744:

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

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

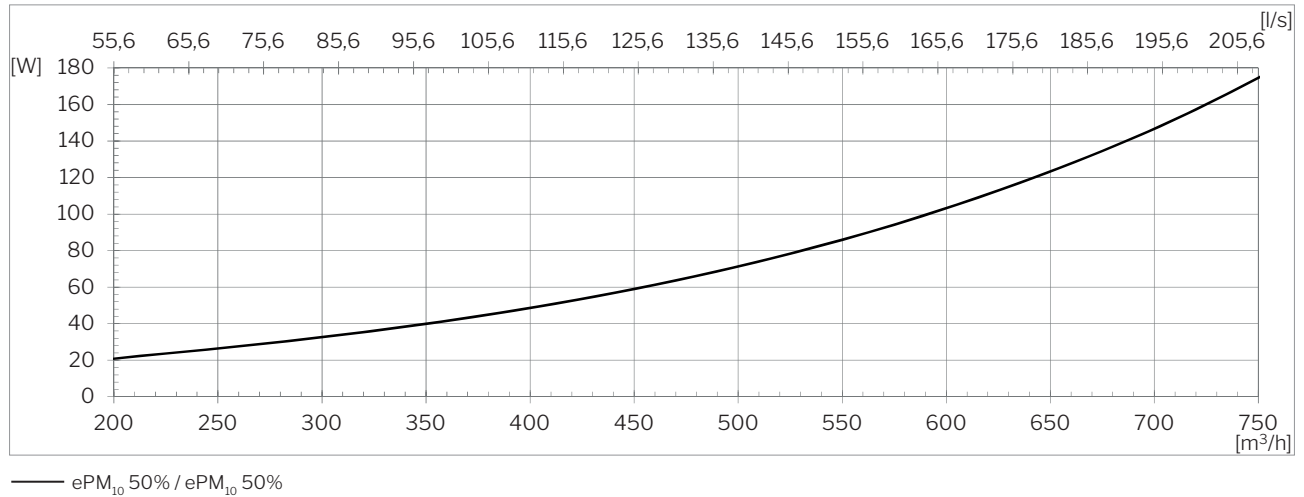
## Temperature efficiency acc. EN 308



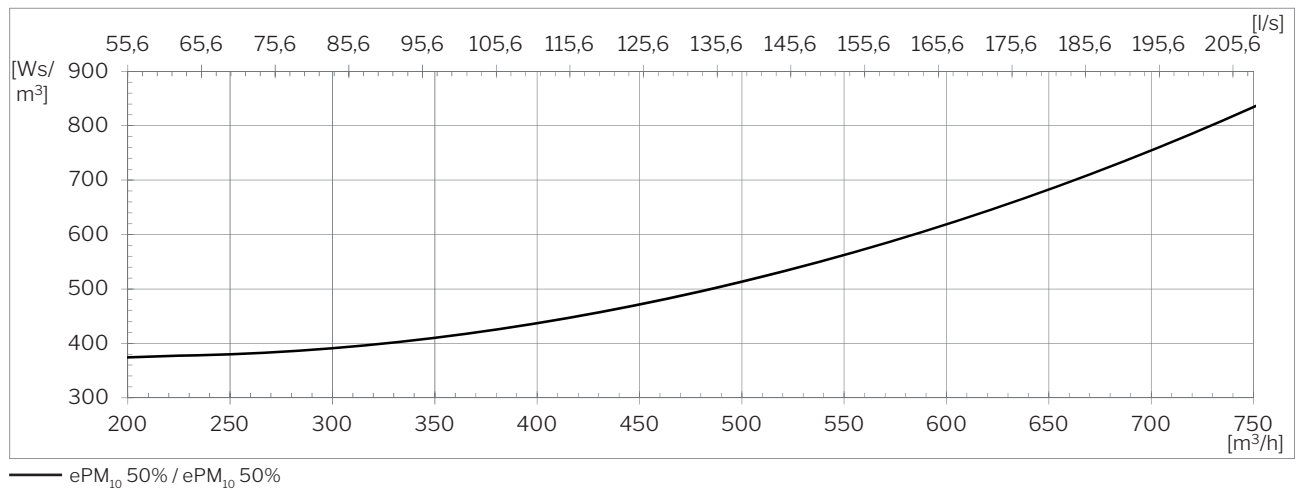
<sup>5</sup> Sound pressure level  $L_{p,eq}$  is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m³ and a reverberation time of  $T = 0.6$  s, corresponding to a room attenuation of 7.5 dB.

<sup>6</sup> 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.

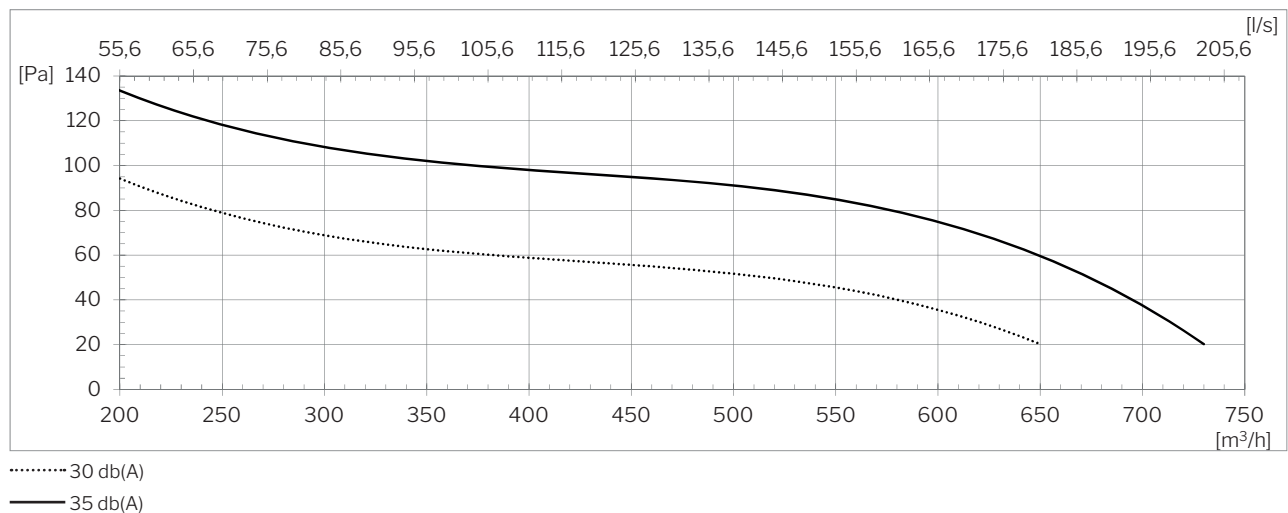
## Power consumption <sup>7</sup>



## SFP <sup>7</sup>



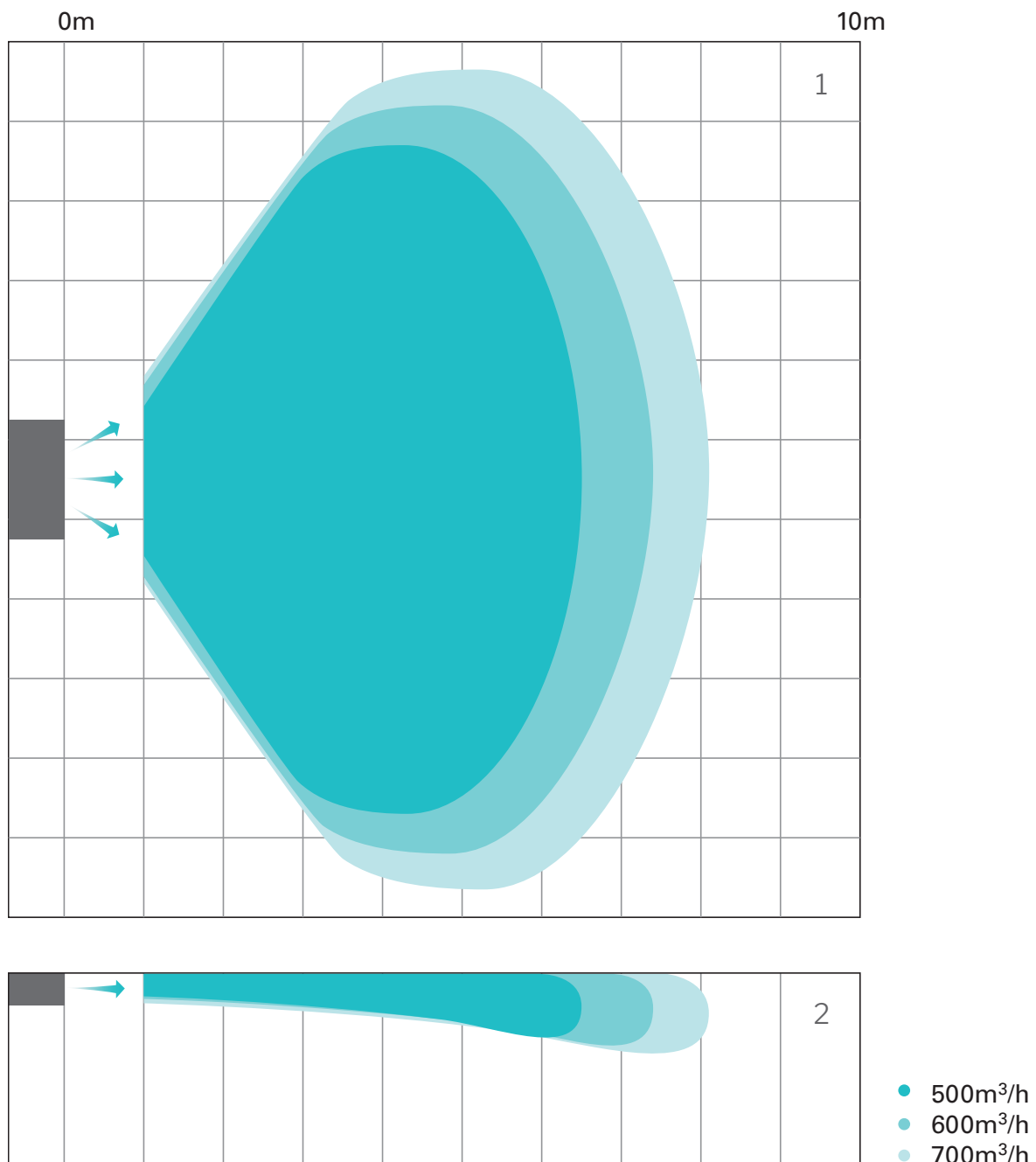
## External pressure loss <sup>7</sup>



<sup>7</sup> All measurements were performed in normal operating mode in a standard installation for the filter class, supply/extract air: ePM<sub>10</sub> 50% / ePM<sub>10</sub> 50%, using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

# AIRMASTER

Throw at 0.2 m/s



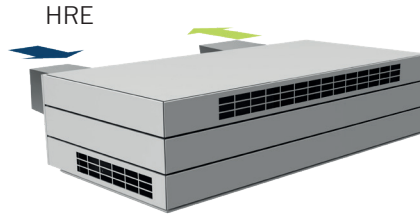
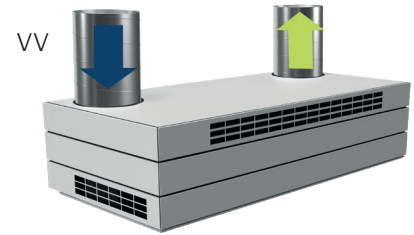
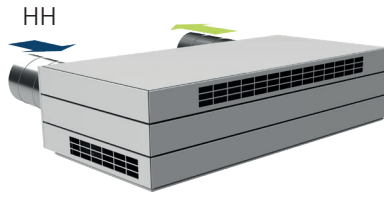
1 Throw seen from above

2 Throw seen from the side

## Version overview

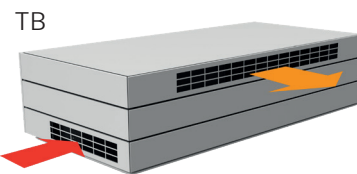
### Exhaust and supply

H: Horizontal  
V: Vertical  
HRE: Horizontal Rectangular



### Inlet and extract

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



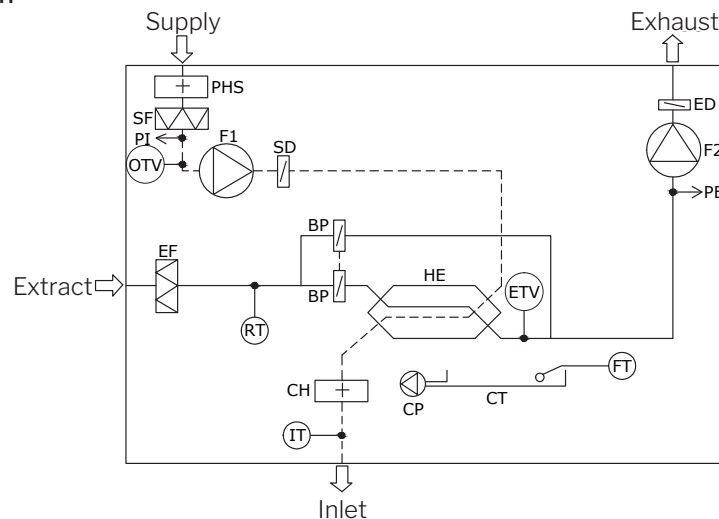
## Standard and options

|                                                                |   |
|----------------------------------------------------------------|---|
| Counterflow heat exchanger (aluminum)                          | x |
| Enthalpy counterflow heat exchanger (Polymer membrane)         | o |
| Combination counterflow heat exchanger (Polymer membrane)      | o |
| Motor-driven bypass                                            | x |
| Motor-driven supply air damper                                 | x |
| Motor-driven extract air damper                                | x |
| Capacitive return for motorized exhaust and supply air dampers | • |
| Electric preheating surface                                    | • |
| Electric comfort heating surface                               | • |
| Water heating surface                                          | • |
| Condensate pump                                                | • |
| PIR/motion sensor (wall-mounted)                               | • |
| PIR/motion sensor (built-in)                                   | • |
| CO <sub>2</sub> -sensor (wall-mounted)                         | • |
| CO <sub>2</sub> -sensor (built-in)                             | • |
| TVOC-sensor (built-in)                                         | • |
| CO <sub>2</sub> -/TVOC-sensor (built-in)                       | • |
| Hygrostat                                                      | o |
| Service power switch                                           | o |

|                                                |   |
|------------------------------------------------|---|
| Energy meter                                   | • |
| Cooling module, CC (Only for horizontal model) | • |
| Supply air filter ePM <sub>10</sub> 50%        | • |
| Supply air filter ePM <sub>1</sub> 55%         | • |
| Supply air filter ePM <sub>1</sub> 80%         | o |
| Extract air filter ePM <sub>10</sub> 50%       | x |
| Wall-/ceiling bracket                          | • |
| Ceiling frame                                  | • |
| Boomerain® façade grille Ø315                  | • |
| Airlinq® Viva control panel                    | • |
| Airlinq® Orbit control panel                   | • |
| Airmaster Airlinq® Online                      | • |
| Airlinq® Online API                            | • |
| Airlinq® BMS                                   | • |
| LON® module                                    | o |
| KNX® module                                    | o |
| MODBUS® RTU RS485 module                       | • |
| BACnet™ MS/TP module                           | • |
| BACnet™ /IP module                             | • |
| Mini B USB (on front of unit)                  | o |

X : Standard    • : Optional    o : Special item

## Schematic sketch



### COMPONENT DESIGNATION

|    |                                   |
|----|-----------------------------------|
| BP | Bypass damper (motor-driven)      |
| CH | Electric comfort heating surface  |
| CP | Condensate pump                   |
| 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 (option) |
| PHS | Preheating surface (option)        |
| PI  | Flow meter, supply air (option)    |
| RT  | Room temperature sensor            |
| SD  | Supply air damper (Motor-driven)   |
| SF  | Supply air filter                  |