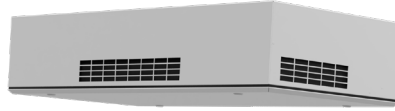


## Data Sheet AM 150



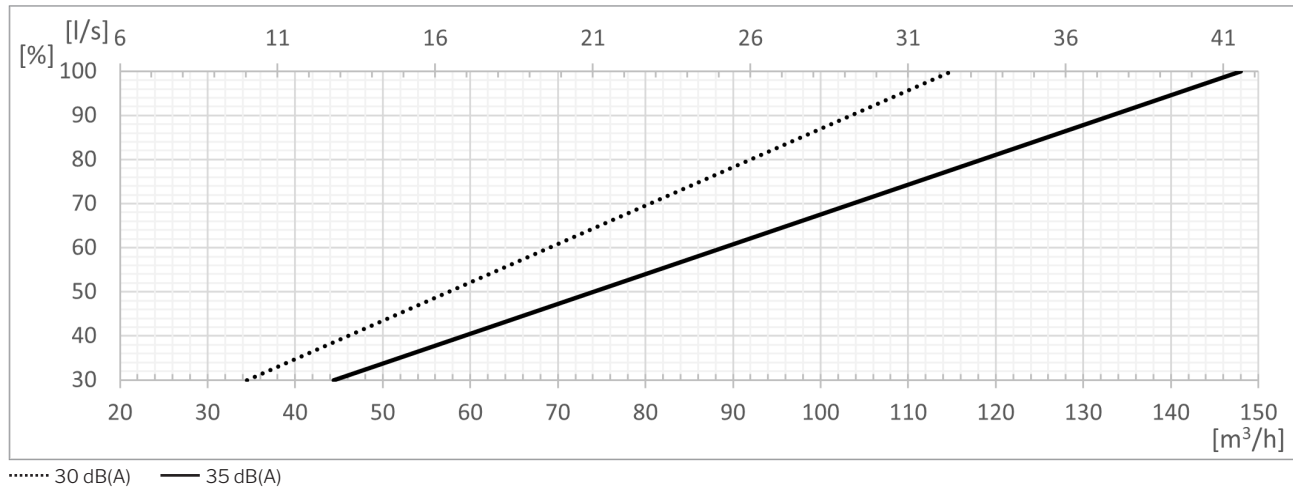
| Technical data                                      | Filter class                                                        | 30 dB(A) | 35 dB(A)            | Boost    |
|-----------------------------------------------------|---------------------------------------------------------------------|----------|---------------------|----------|
| Maximum capacity <sup>1</sup>                       | ePM <sub>10</sub> 50%                                               | 106 m³/h | 146 m³/h            | 225 m³/h |
|                                                     | ePM <sub>1</sub> 55%                                                | 84 m³/h  | 117 m³/h            | 206 m³/h |
|                                                     | ePM <sub>1</sub> 80%                                                | 80 m³/h  | 108 m³/h            | 190 m³/h |
| Throw (0,2 m/s) <sup>2</sup>                        | ePM <sub>10</sub> 50%                                               | 2,4 m    | 3,4 m               | 4,6 m    |
|                                                     | ePM <sub>1</sub> 55%                                                | 2,0 m    | 2,7 m               | 4,2 m    |
|                                                     | ePM <sub>1</sub> 80%                                                | 1,9 m    | 2,5 m               | 3,8 m    |
| Supply air filter                                   | ePM <sub>10</sub> 50%, ePM <sub>1</sub> 55% or ePM <sub>1</sub> 80% |          |                     |          |
| Extract air filter                                  | ePM <sub>10</sub> 50%                                               |          |                     |          |
| Dimensions (WxHxD)                                  | 1170 x 261 x 572 mm                                                 |          |                     |          |
| Weight, standard air handling unit, complete        | 53 kg                                                               |          |                     |          |
| Weight, casing                                      | 40 kg                                                               |          |                     |          |
| Weight, service cover                               | 13 kg                                                               |          |                     |          |
| Colour, casing                                      | RAL 9010 (white)                                                    |          |                     |          |
| Counterflow heat exchanger                          | PET (Polyethylene terephthalate)                                    |          |                     |          |
| Energy class, cf. EU regulation no. 1254            | SEC class A                                                         |          |                     |          |
| Air leakage classification cf. EN1886/EN13141-7     | Class L1 / Class A1                                                 |          |                     |          |
| Air leakage classification, main damper, cf. EN1751 | Class 3                                                             |          |                     |          |
| IP code                                             | 10                                                                  |          |                     |          |
| Duct connection                                     | Ø160 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                                               |          |                     |          |
| Maximum power consumption                           | 204 W                                                               |          |                     |          |
| Maximum current                                     | 1,87 A                                                              |          |                     |          |
| Recommended fuse                                    | 0,48                                                                |          |                     |          |
| Maximum fuse                                        | 13 A (1 phase, type B).<br>When using the cc module, it is type C   |          |                     |          |
| Leakage current AC / DC                             | ≤ 0,52 mA / ≤ 0,0007 mA                                             |          |                     |          |
| Recommended residual current circuit breaker (RCCB) | Type B                                                              |          |                     |          |
| Electrical heating surfaces                         |                                                                     |          |                     |          |
| Heat output                                         | 500 W                                                               |          | 1000 W <sup>3</sup> |          |
| Nominal current                                     | 2,17 A                                                              |          | 4,35 A              |          |
| Thermal circuit breaker, manual reset               | 100 °C                                                              |          | 100 °C              |          |

<sup>1</sup> All measurements were performed in normal operating mode in a standard installation using the facade grilles recommended by Airmaster, in a test room dimensioned 4.0 m x 4.0 m x 2.5 m with room attenuation of 7.5 dB. For larger rooms, e.g. 8.0 m x 10.0 m x 2.5 m, 2 dB must be deducted, i.e. sound pressure level for 2 dB higher can be used.

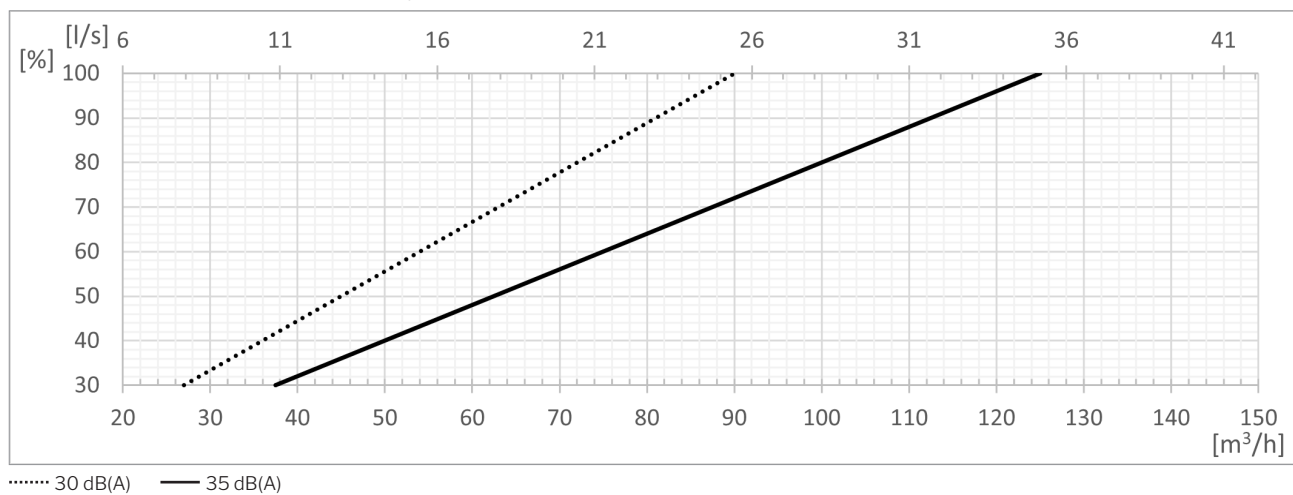
<sup>2</sup> The throw is measured with a 2 °C subcooled supply air at the standard setting of the inlet diffuser. The setting is adaptable, see page 7.

<sup>3</sup> Special item.

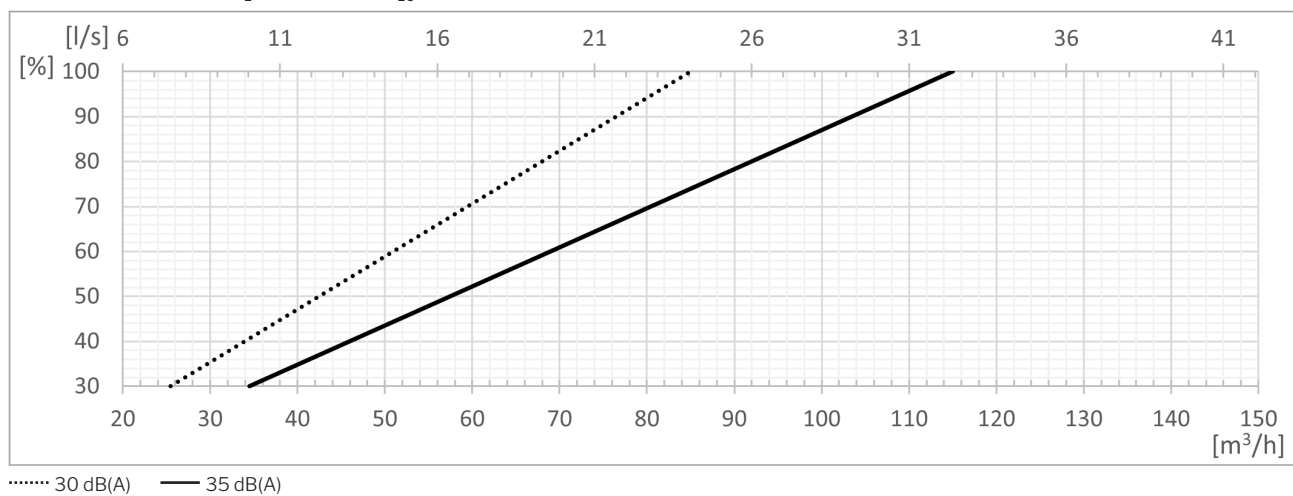
## Capacity with ePM<sub>10</sub> 50% / ePM<sub>10</sub> 50% filters



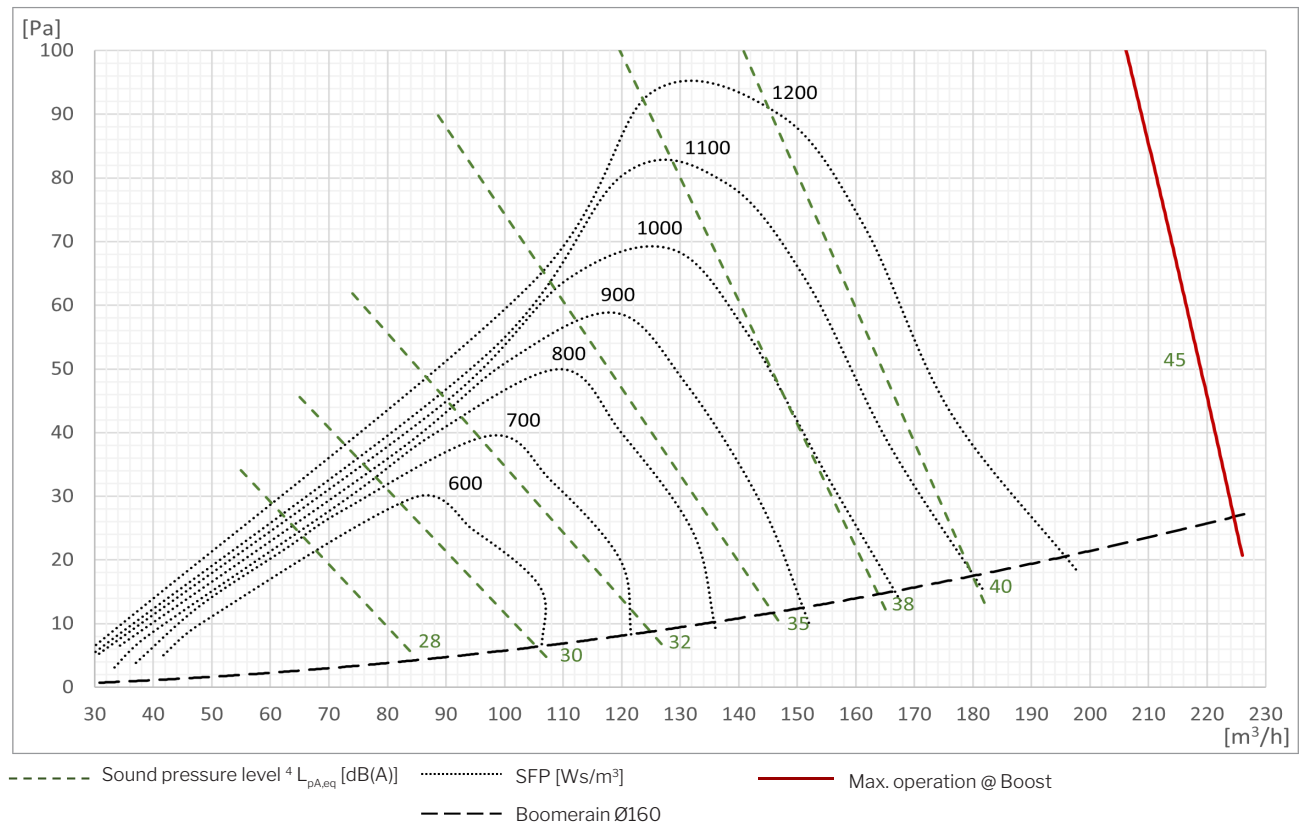
## Capacity with ePM<sub>1</sub> 55% / ePM<sub>10</sub> 50% filters



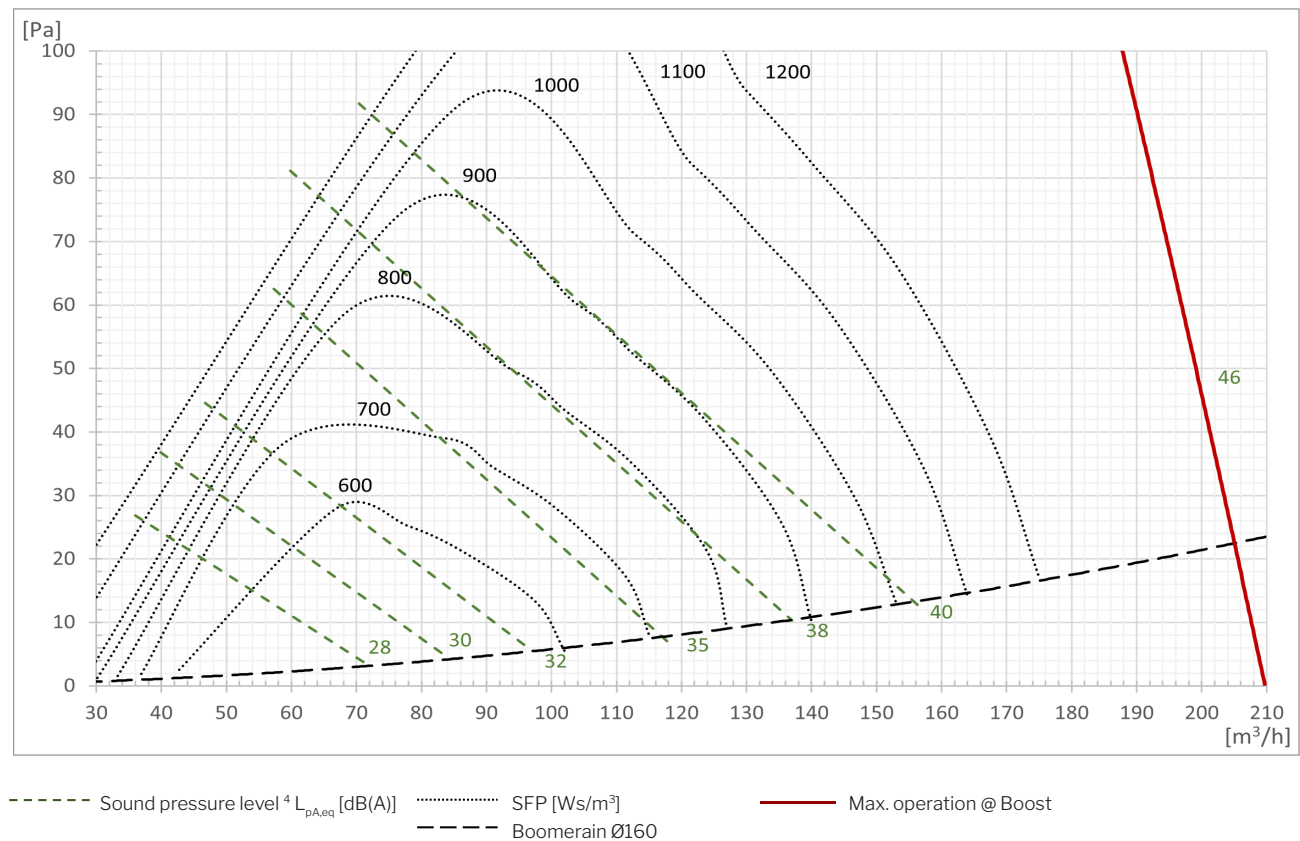
## Capacity with ePM<sub>1</sub> 80% / ePM<sub>10</sub> 50% filters



## SFP with ePM<sub>10</sub> 50% / ePM<sub>10</sub> 50% filters

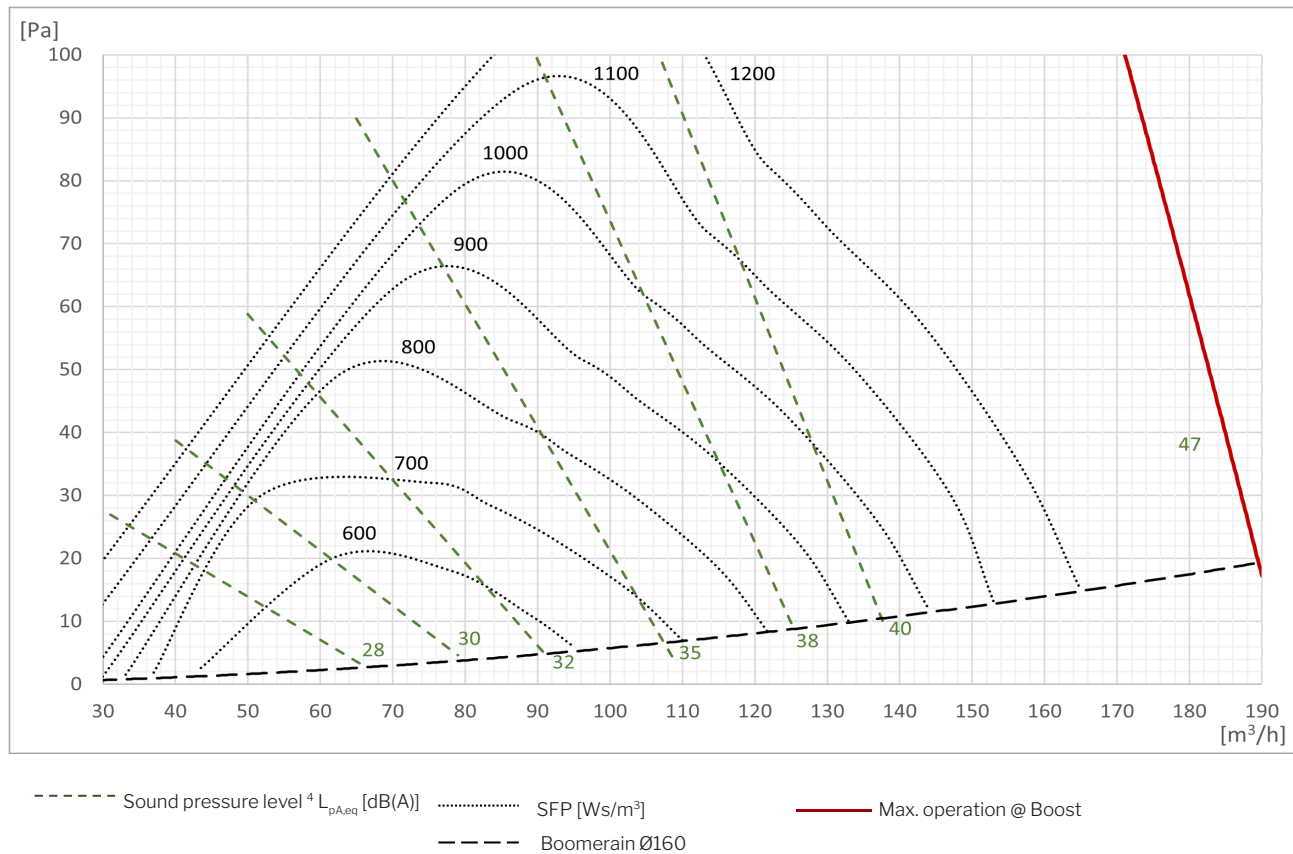


## SFP with ePM<sub>1</sub> 55% / ePM<sub>10</sub> 50% filters

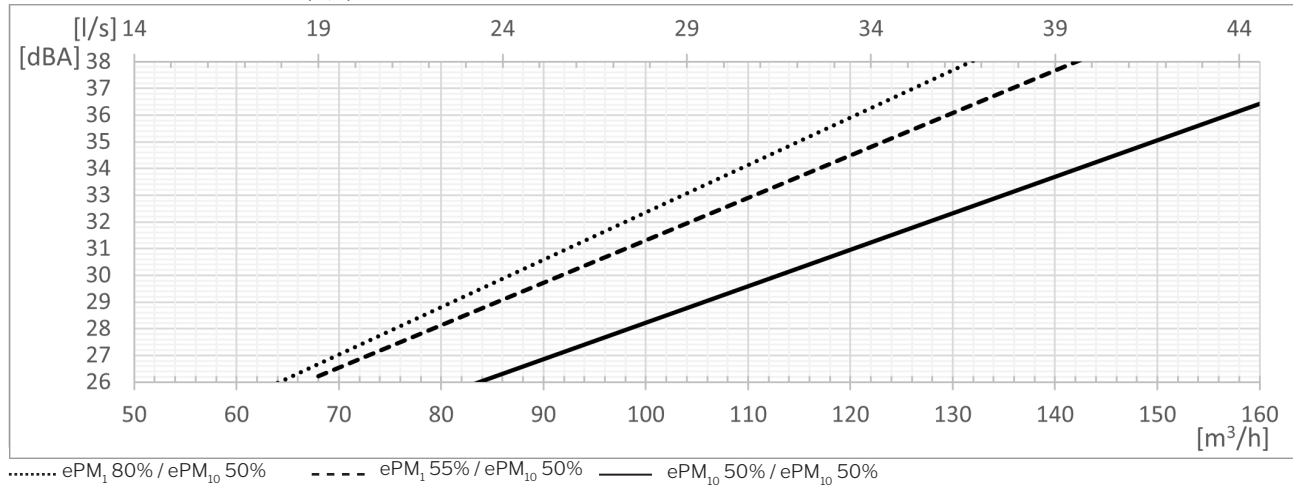


<sup>4</sup> The sound pressure level  $L_{pA,eq}$  is measured at a height of 1,2 m at a horizontal distance of 1 m from the air handling unit.

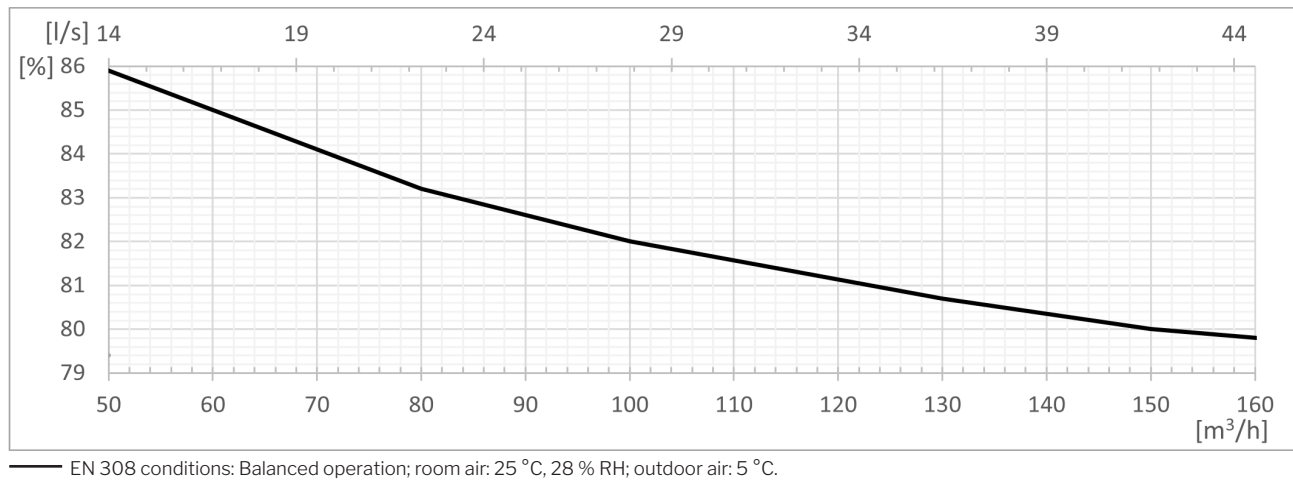
## SFP with ePM<sub>1</sub> 80% / ePM<sub>10</sub> 50% filters



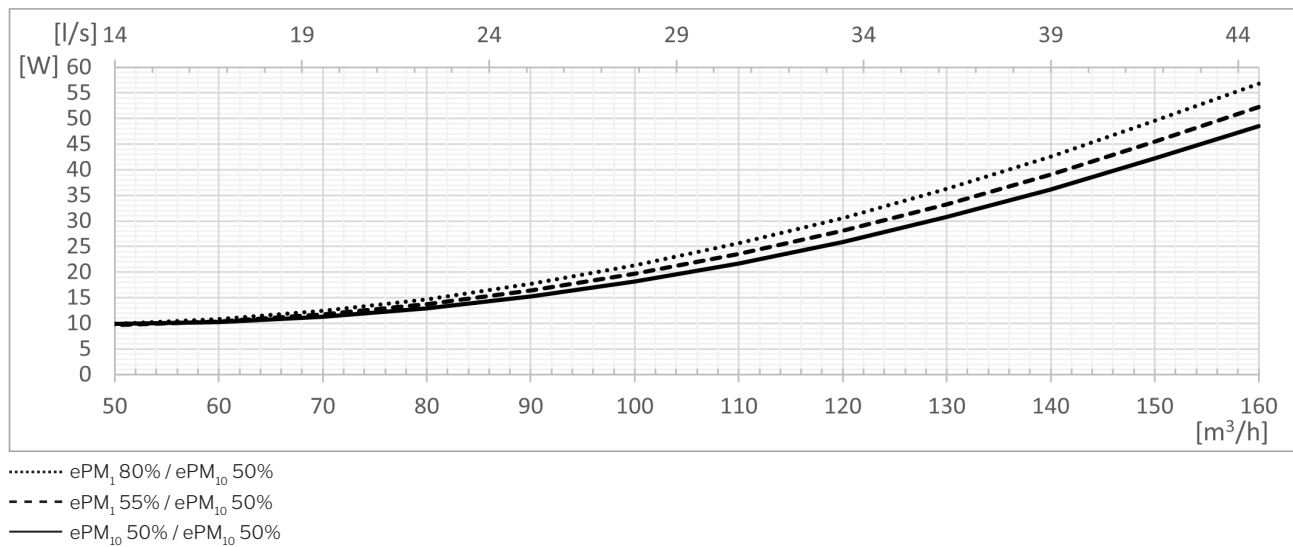
## Sound pressure level <sup>5</sup> L<sub>pA,eq</sub> acc. to Airmaster reference situation



## Temperature efficiency acc. to EN 308

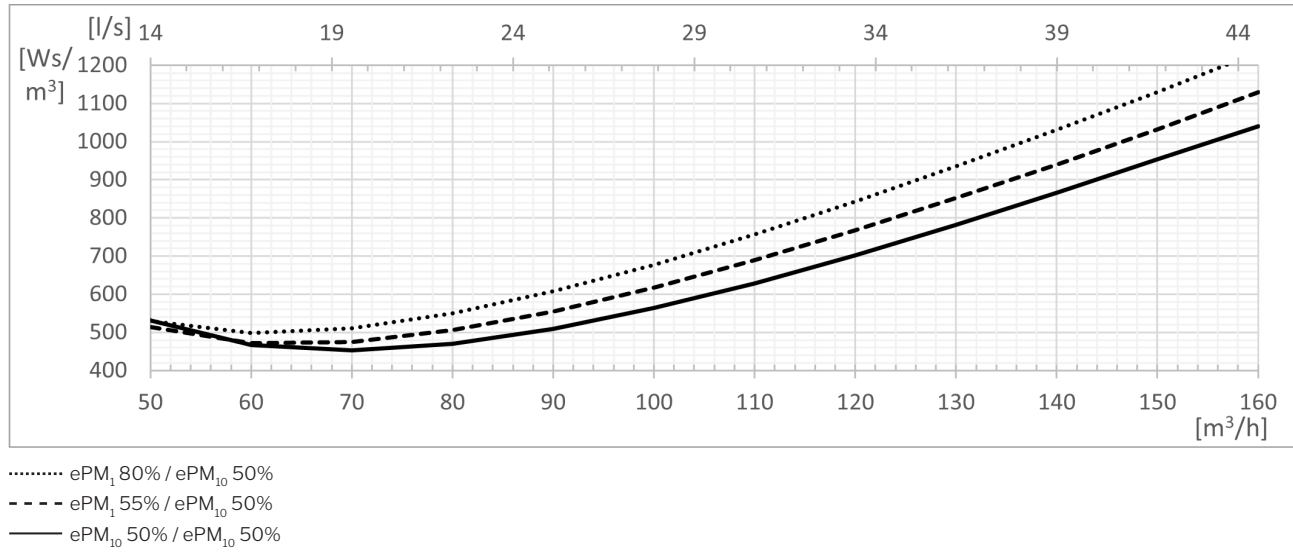


## Power consumption



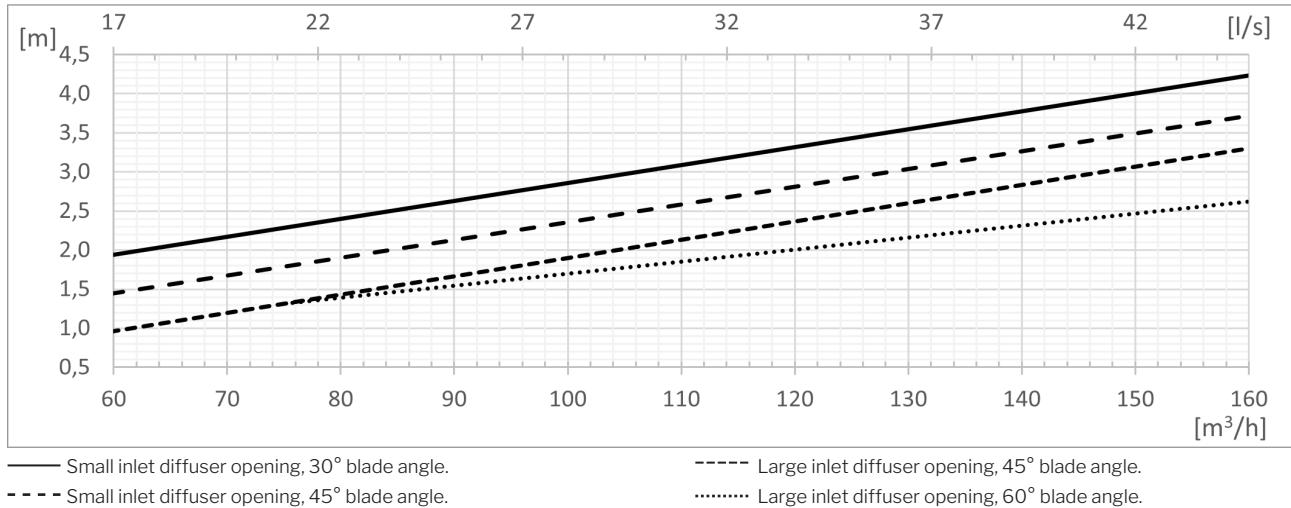
<sup>5</sup> The sound pressure level  $L_{pA,eq}$  is measured at a height of 1.2 m at a horizontal distance of 1 m from the air handling unit.

## SFP<sup>6</sup>

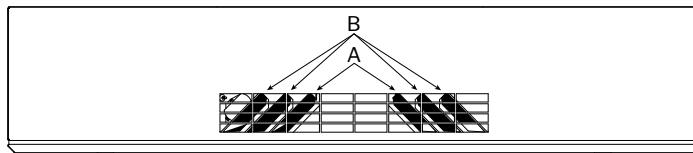


<sup>6</sup> The calculation of SFP includes the power consumption for operating fans but not for controls, display panel, etc.

Throw <sup>7</sup> (0,2 m/s)



## Small and large inlet diffuser opening

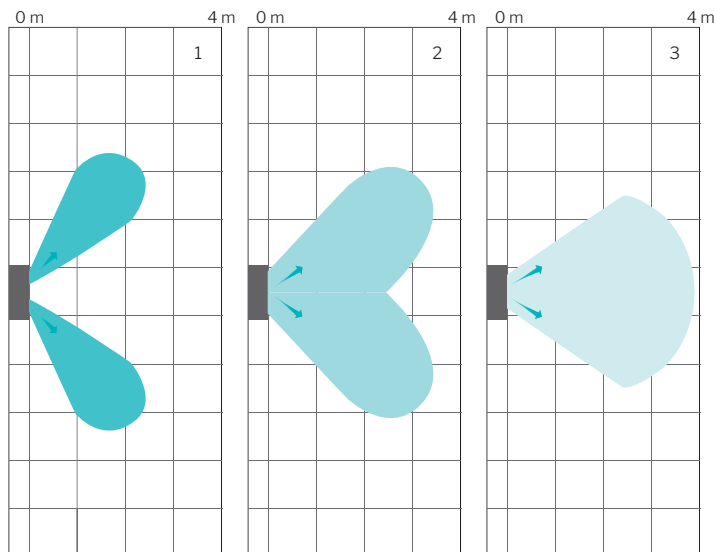


Small inlet diffuser opening:  
A is closed, B is open at x°.

Large inlet diffuser opening:  
A and B are open at x°.

Default delivery state:  
Small inlet diffuser opening, 45° blade angle.

Throw and dispersion, top view.



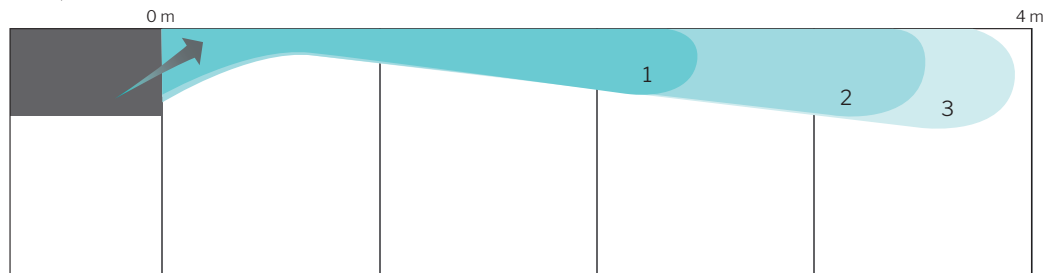
The air handling unit disperses inlet air depending on the blade angle settings.

The illustrations show the dispersion pattern and throw for the various blade angle settings at an air flow of 146 m³/h:

1. Large inlet diffuser opening, 60° blade angle.
2. Small inlet diffuser opening, 45° blade angle.
3. Small inlet diffuser opening, 30° blade angle.

Changing the air flow also affects the throw.

Throw, side view.



<sup>7</sup> The throw is measured with a 2 °C subcooled inlet air supply.

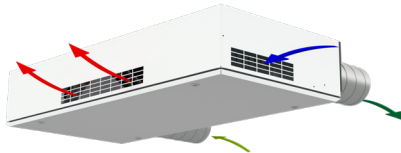
## Version overview AM 150

Exhaust/supply position  
» Back (**H**orizontal)

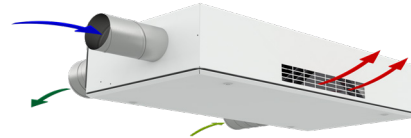
Inlet/extract position  
» Bottom (**B**)  
» Ducted Inlet (**DI**)  
» Ducted Extract (**DE**)

Mounting  
» Wall/ceiling bracket  
» Ceiling Frame (**CF**)

HH BB



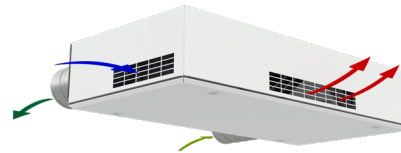
HHL BDE <sup>9</sup>



HH BDE



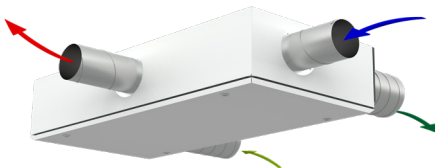
HHL BB <sup>9</sup>



HH DIB <sup>8</sup>



HH DIDE <sup>8</sup>



<sup>8</sup> Special item

<sup>9</sup> L: Left model

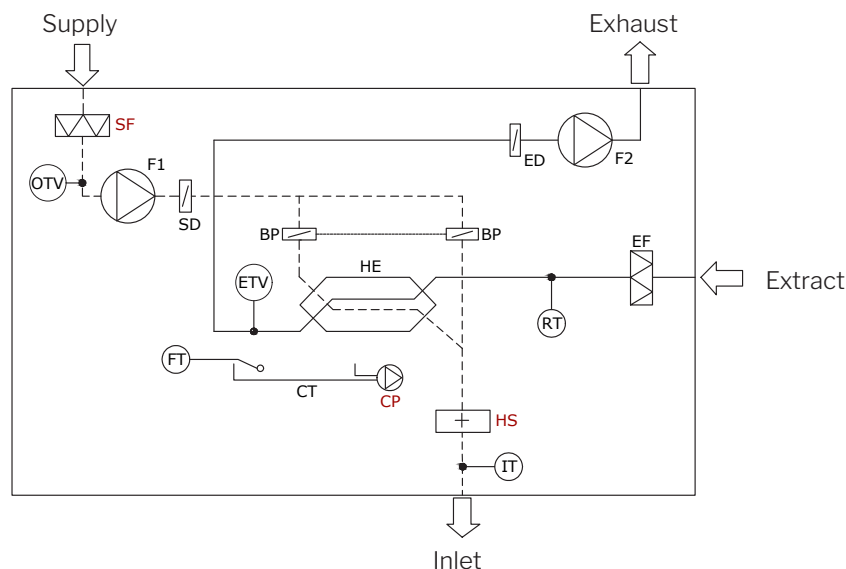
## Standards and options

|                                                           |   |
|-----------------------------------------------------------|---|
| Counterflow heat exchanger (PET)                          | 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 |
| Electric heating surface/VPH <sup>10</sup>                | • |
| Condensate pump                                           | • |
| Service power switch                                      | • |
| Electronic humidity sensor (built-in)                     | • |
| PIR/motion sensor (wall mounted)                          | • |
| PIR/motion sensor (integrated)                            | • |
| CO <sub>2</sub> sensor (wall mounted)                     | • |
| CO <sub>2</sub> sensor (integrated)                       | • |
| TVOC (integrated)                                         | • |
| CO <sub>2</sub> -/TVOC sensor (integrated)                | • |
| Hygrostat (wall mounted)                                  | o |
| Energy meter                                              | • |
| 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 |
| LED (operating mode indicator)           | x |
| Comfort cooling module (except HHL)      | • |
| Wall/ceiling bracket                     | • |
| Ceiling frame                            | • |
| Operating button                         | • |
| Control panel, Viva                      | • |
| Control panel, Orbit                     | • |
| 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                       | • |

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

## Schematic sketch



### Component designation

|     |                                          |    |                                   |     |                                            |
|-----|------------------------------------------|----|-----------------------------------|-----|--------------------------------------------|
| BP  | Bypass damper (motor-driven)             | FT | Float                             | OTV | Temperature sensor, Supply air ventilation |
| CP  | Condensate pump (option)                 | F1 | Supply air fan                    | RT  | Temperature sensor, Room                   |
| CT  | Condensate tray                          | F2 | Extract air fan                   | SD  | Supply air damper (motor-driven)           |
| ED  | Exhaust air damper (motor-driven)        | HE | Counterflow heat exchanger        | SF  | Supply air filter (option)                 |
| EF  | Extract air filter                       | HS | Electric heating surface (option) |     |                                            |
| ETV | Temperature sensor, Exhaust, Ventilation | IT | Temperature sensor, Inlet-air     |     |                                            |

<sup>10</sup> Virtual PreHeat