



## Datasheet AM 900

Displacement ventilation

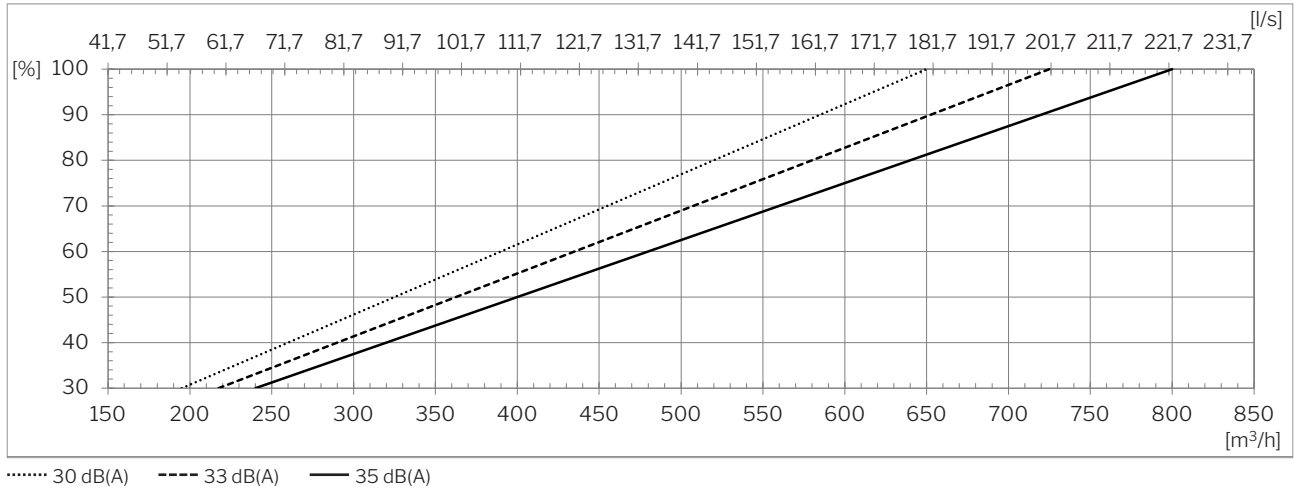
Technical data	Filter class	30 dB(A)	33 dB(A)	35 dB(A)
Maximum capacity <sup>1</sup>	ePM <sub>10</sub> 50%	650 m <sup>3</sup> /h	725 m <sup>3</sup> /h	800 m <sup>3</sup> /h
	ePM <sub>1</sub> 55%	631 m <sup>3</sup> /h	703 m <sup>3</sup> /h	776 m <sup>3</sup> /h
	ePM <sub>1</sub> 80%	611 m <sup>3</sup> /h	682 m <sup>3</sup> /h	752 m <sup>3</sup> /h
Adjacent zone (0.2 m/s) <sup>2</sup>		approx. 1.2 m at 650 m <sup>3</sup> /h		approx. 1.5 m at 800 m <sup>3</sup> /h
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)		800 x 2323 x 687 mm		
Minimum ceiling height		2490 mm		
Weight, standard air handling unit, complete		180 kg		
Color casing		RAL 9010		
Counterflow heat exchanger		3 x PET (Polyetylentereftalat)		
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		Ø4 mm / Ø6 mm		
Supply voltage		220-240V/50Hz, ~1N+PE		
Nominal power consumption <sup>1</sup>		240 W		
Nominal current <sup>1</sup>		1,8 A		
Power factor		0.6		
Maximum fuse		16 A (1 phase, type B)		
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	1050 W	
Nominal current		6.5 A	4.4 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 grills recommended by Airmaster: Airmaster Boomerain® Ø315.

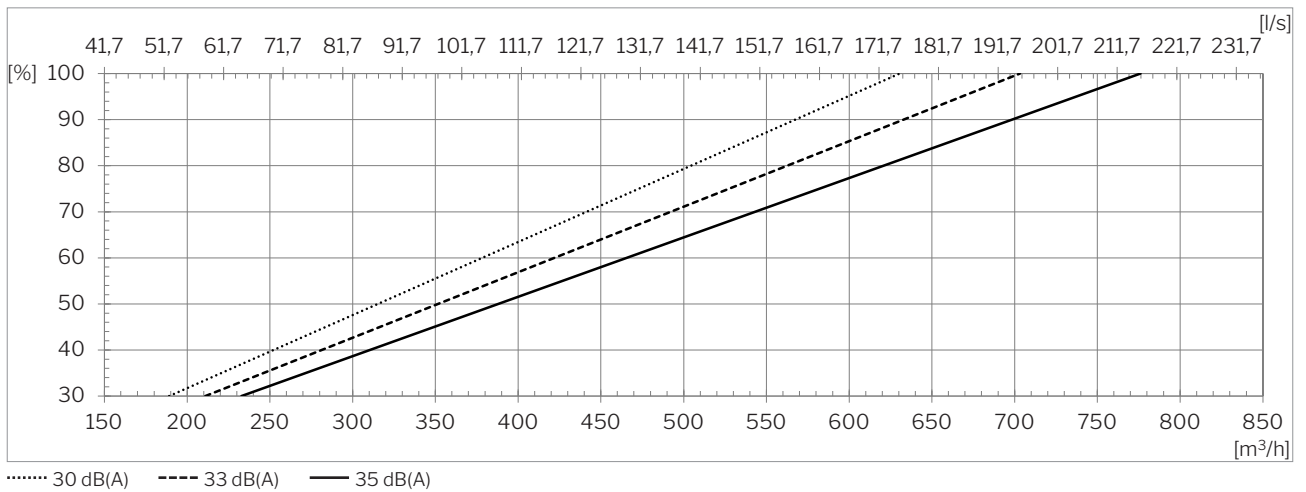
<sup>2</sup> Adjacent zone to outlet was measured with filter class: supply air ePM<sub>10</sub> 50% | Extract air ePM<sub>10</sub> 50%

<sup>3</sup> Heat output for maximum capacity at 35 dB(A), delivery/return temperature 60/40°C and a liquid flow of 111 l/h.

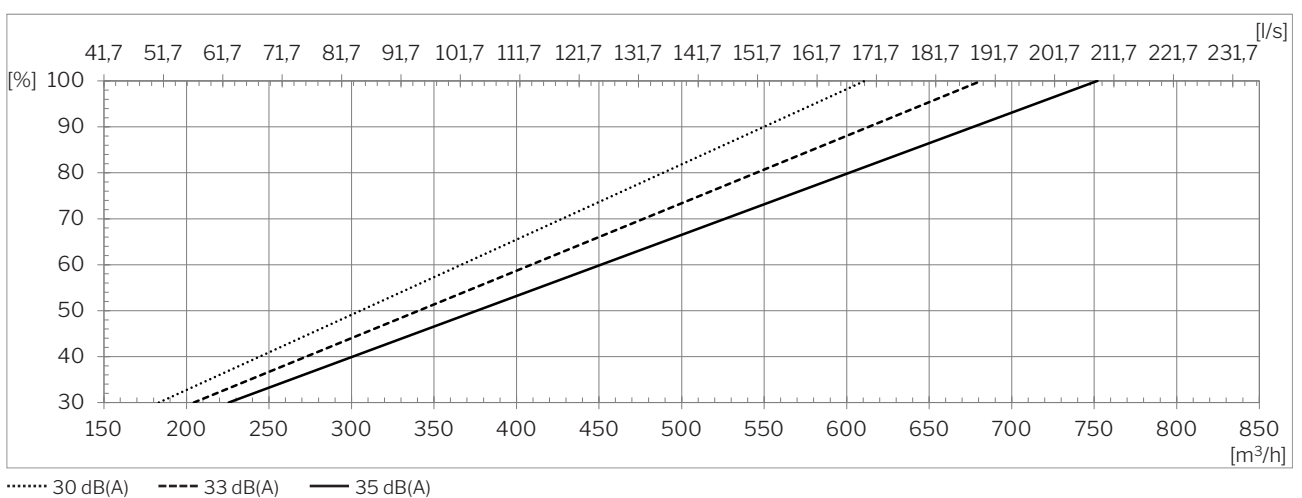
## Capacity with ePM<sub>10</sub> 50% / ePM<sub>10</sub> 50% filters <sup>4</sup>



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

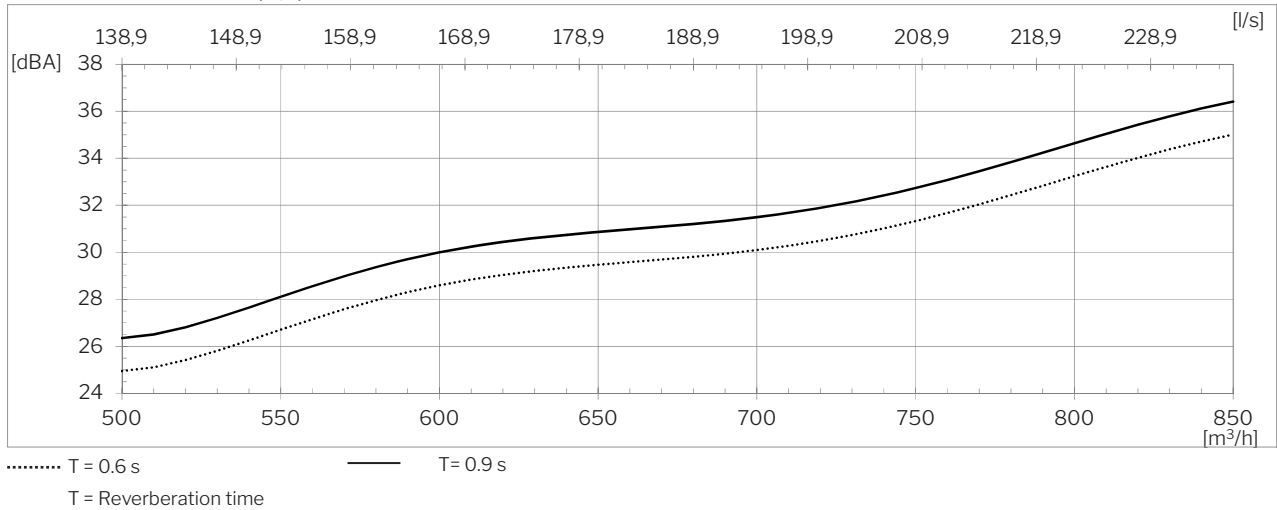


## Capacity with ePM<sub>1</sub> 80% / ePM<sub>10</sub> 50% filters <sup>4</sup>

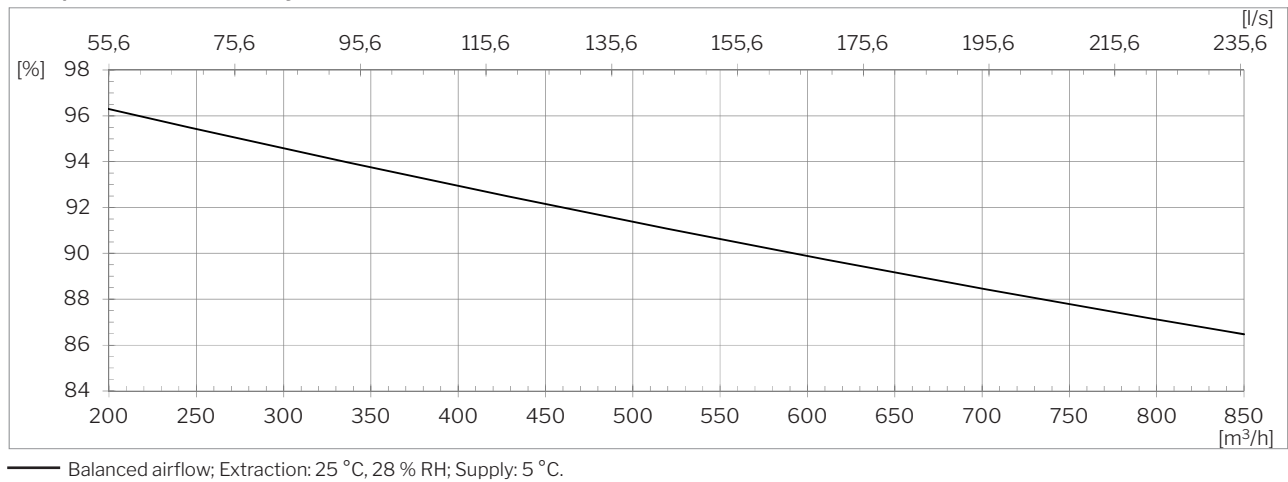


<sup>4</sup> All measurements were performed in normal operating mode in a standard installation using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

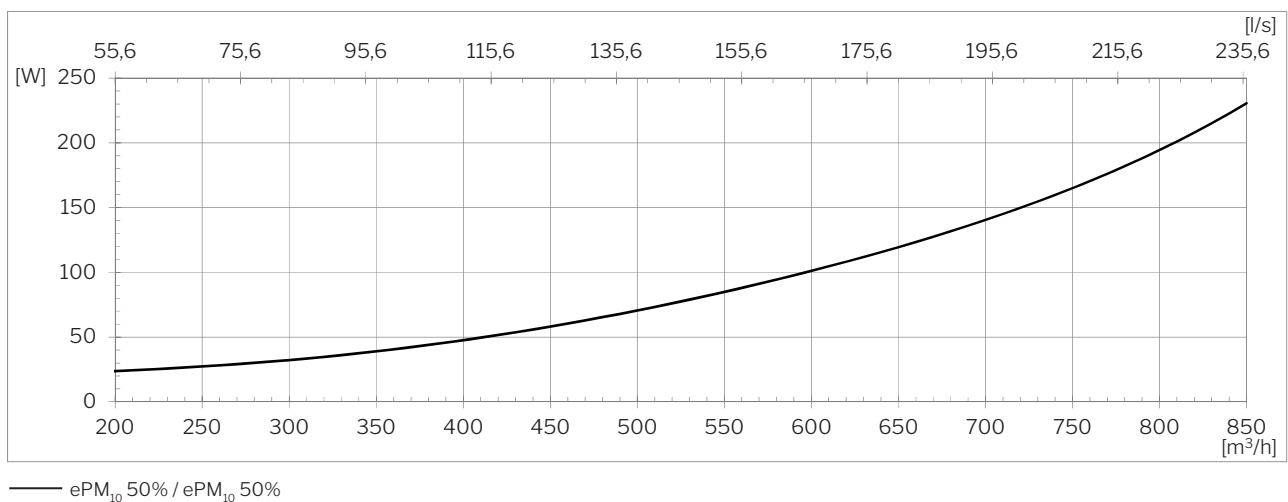
## Sound pressure $L_{pA,eq}$ acc. Airmaster reference situation



## Temperature efficiency acc. EN 308



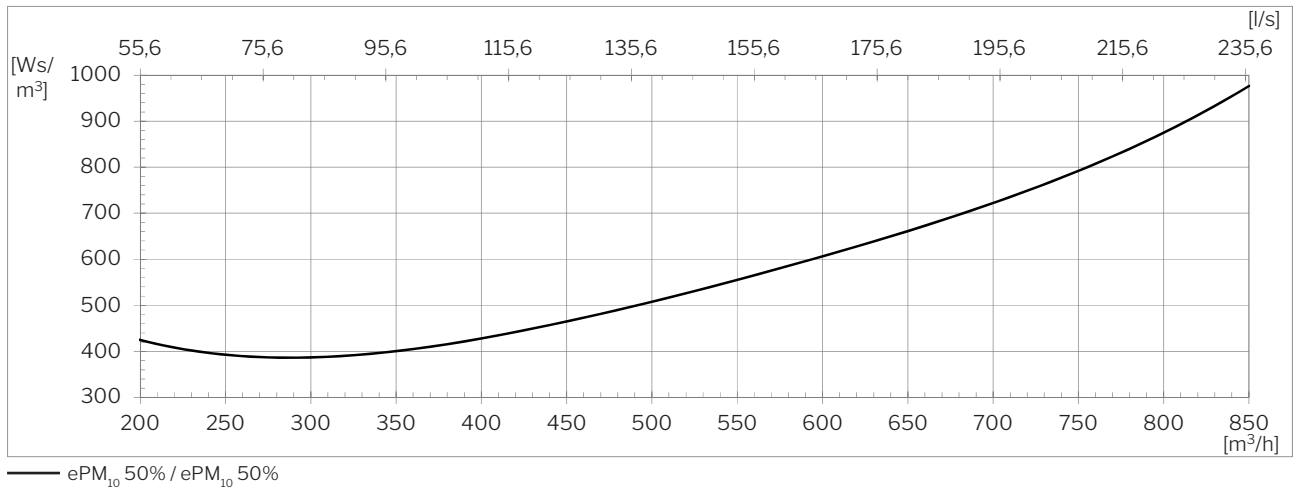
## Power consumption <sup>6</sup>



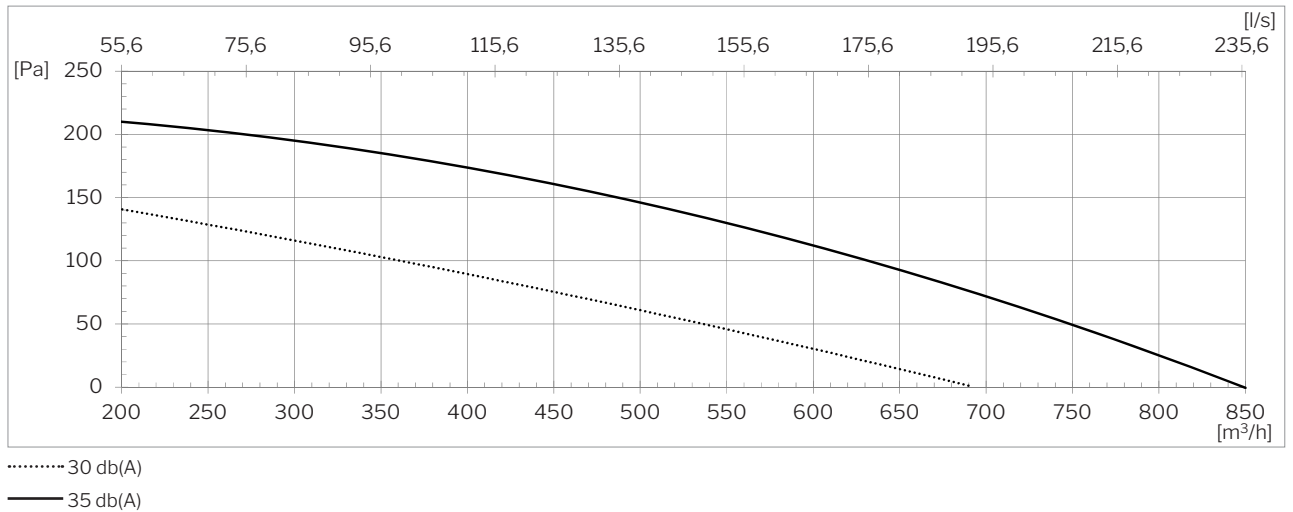
<sup>5</sup>Sound pressure level  $L_{pA,eq}$  is measured in a height of 1.2 m with at horizontal distance of 1 m from the air handling unit in room with a size of 200 m<sup>3</sup> and a reverberation time of T = 0.6 s, corresponding to a room attenuation of 7.5 dB.

<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.

## SFP<sup>7</sup>

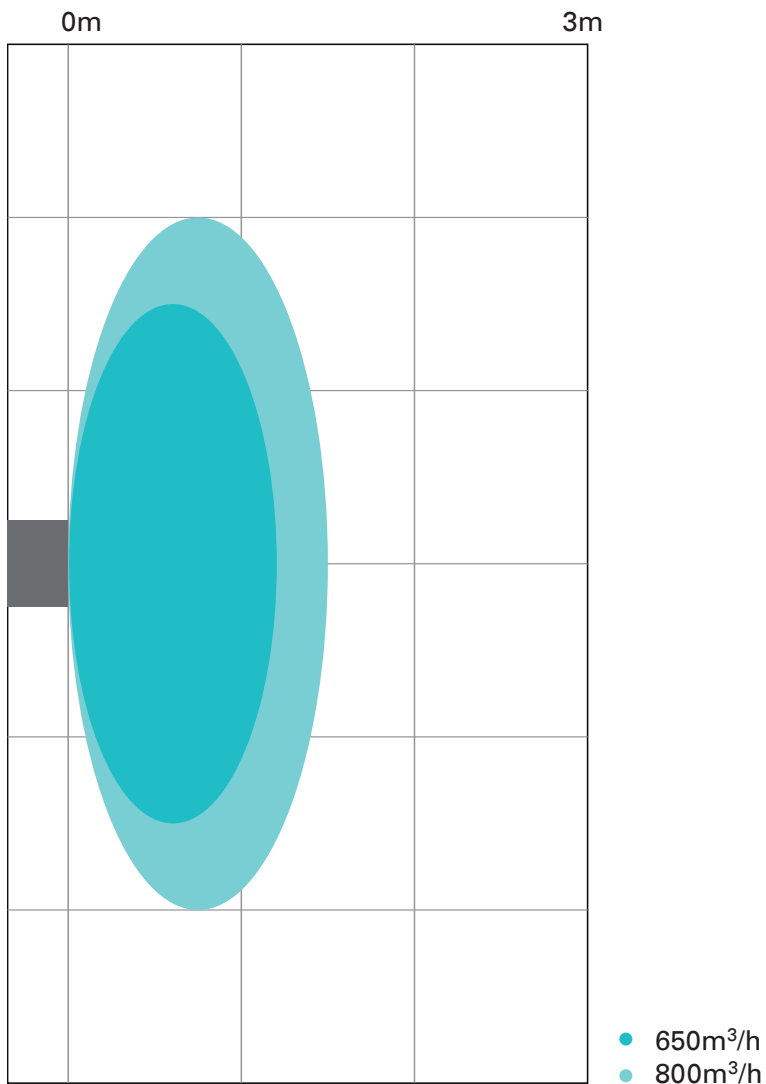


## External pressure loss<sup>7</sup>



<sup>7</sup> All measurements were performed in normal operating mode in a standard installation for the filter class, supply/extract air: ePM10 50% / ePM10 50%, using the facade grills recommended by Airmaster: Airmaster Boomerain® Ø315.

## Adjacent zone<sup>8</sup> - displacement



<sup>8</sup> The result applies to an undertemperature of the inlet air of 3-5 °C.

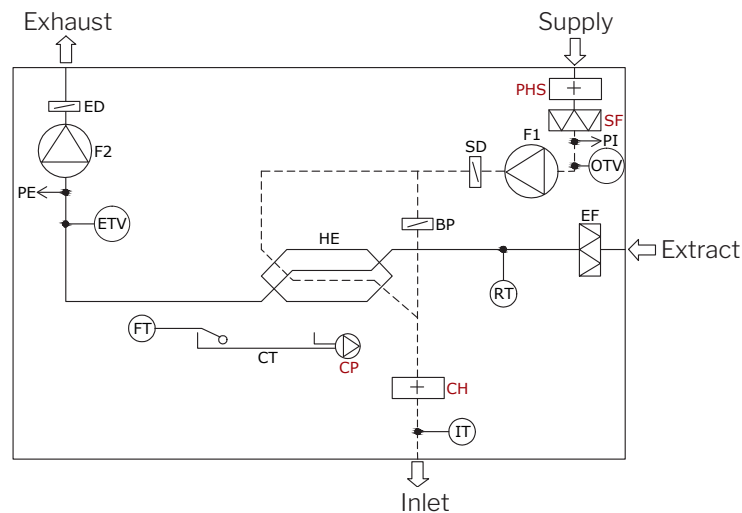
## Standard and options

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
Capacitive return for motorized exhaust and supply air dampers	•
Electric preheating surface	•
Electric comfort heating surface	•
Condensate pump	•
PIR/motion sensor (wall-mounted)	•
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 (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
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	•

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

## Schematic sketch - displacement



### 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
PHS	Preheating surface (option)
PI	Flow meter, supply air
RT	Room temperature sensor
SD	Supply air damper (Motor-driven)
SF	Supply air filter (option)