

## Technical data

	Filter class	30 dB(A)	35 dB(A)	Boost
Maximum capacity <sup>A</sup>	ePM <sub>10</sub> 50%	730 m <sup>3</sup> /h	915 m <sup>3</sup> /h	930 m <sup>3</sup> /h
	ePM <sub>1</sub> 55%	715 m <sup>3</sup> /h	912 m <sup>3</sup> /h	930 m <sup>3</sup> /h
Throw (0.2 m/s) <sup>B</sup>	ePM <sub>10</sub> 50%	5.2 m	7.1 m	7.5 m
	ePM <sub>1</sub> 55%	5.1 m	7.1 m	7.5 m
Operating range (max. capacity), outside temperature	-20 °C – +40 °C			
Intake filter	ePM <sub>10</sub> 50%, ePM <sub>1</sub> 55%			
Extract filter	ePM <sub>10</sub> 50%			
Dimensions (WxHxD)	1150 x 2260 x 661 mm			
Minimum ceiling height	2300 mm			
Weight: standard air handling unit, complete	281 kg			
Color: casing	RAL 9010			
Counterflow heat exchanger	Aluminium			
Air leakage classification cf. EN 1886 (external leakage)	Class L2			
Air leakage classification cf. EN 13141-7, EN 13141-8 (external leakage)	Class A1			
Air leakage classification cf. EN 308 (internal leakage)	Max. 0.5%			
Air leakage classification, main damper, cf. EN 1751	Class 3			
IP code	10			
Duct connection	Ø315 mm			
Free area, inlet opening / free area, extract opening	0.07 m <sup>2</sup> / 0.143 m <sup>2</sup>			
Condensate pump: capacity / lifting height (at 5 l/h)	10 l/h / 6 m			
Condensate drain hose: internal diameter / external diameter	Ø6 mm / Ø9 mm			
Supply voltage <sup>C</sup>	220-240V/50Hz, ~1N+PE or 220-240V/50Hz, ~3N+PE			
Maximum power	354 W			
Maximum current	2.76 A			
Power factor	0.56			
Leakage current AC / DC	≤6mA			
Maximum fuse <sup>C</sup>	16 A, 1 phase, type B or 16 A, 3 phase, type B			
Recommended residual current circuit breaker (RCCB)	Type B			

<sup>A</sup> All measurements were performed in a normal operating mode in a standard installation in a test room, dimensioned 8.0 m x 10.0 m x 2.5 m with room attenuation of 8 dB(A).

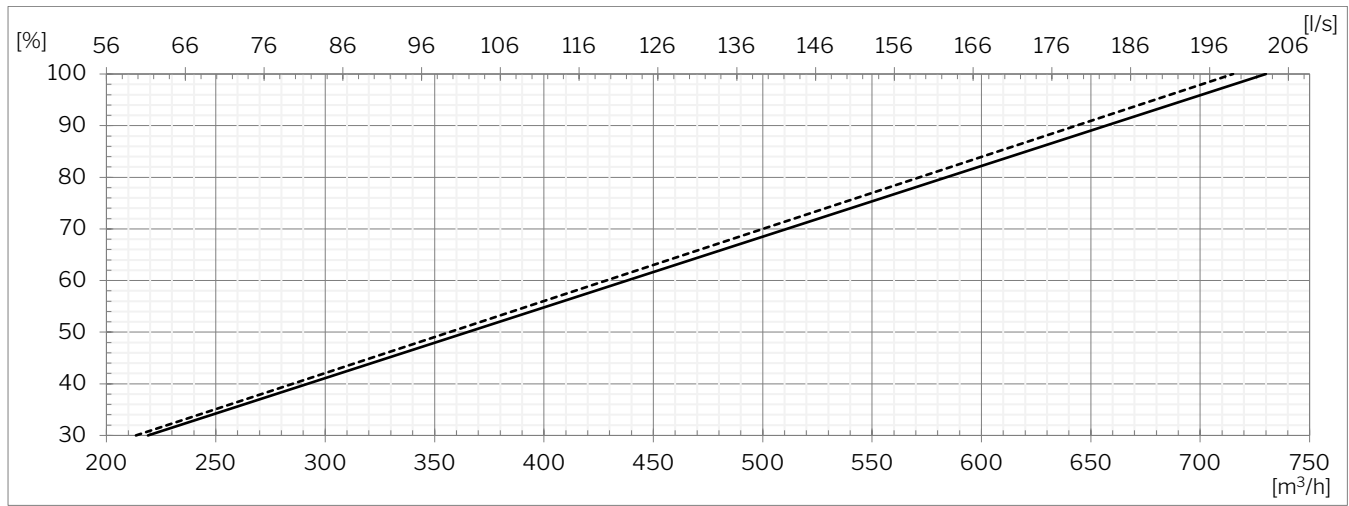
<sup>B</sup> The throw is measured with a 2-3°C subcooled intake air in a test room, dimensioned 8.0 m x 10.0 m x 2.5 m. Measured with intake filter ePM<sub>10</sub> 50% and extract filter ePM<sub>10</sub> 50%.

<sup>C</sup> A 3-phase connection must be used if the electric preheating surface is chosen.

## Electrical heating surfaces

	Preheating surface	Comfort heating surface
Heat output	2300 W	1700 W
Nominal current	10.00 A @ 230 V	7.39 A @ 230 V
Thermal circuit breaker, automatic reset	50 °C	50 °C
Thermal circuit breaker, manual reset	100 °C	100 °C

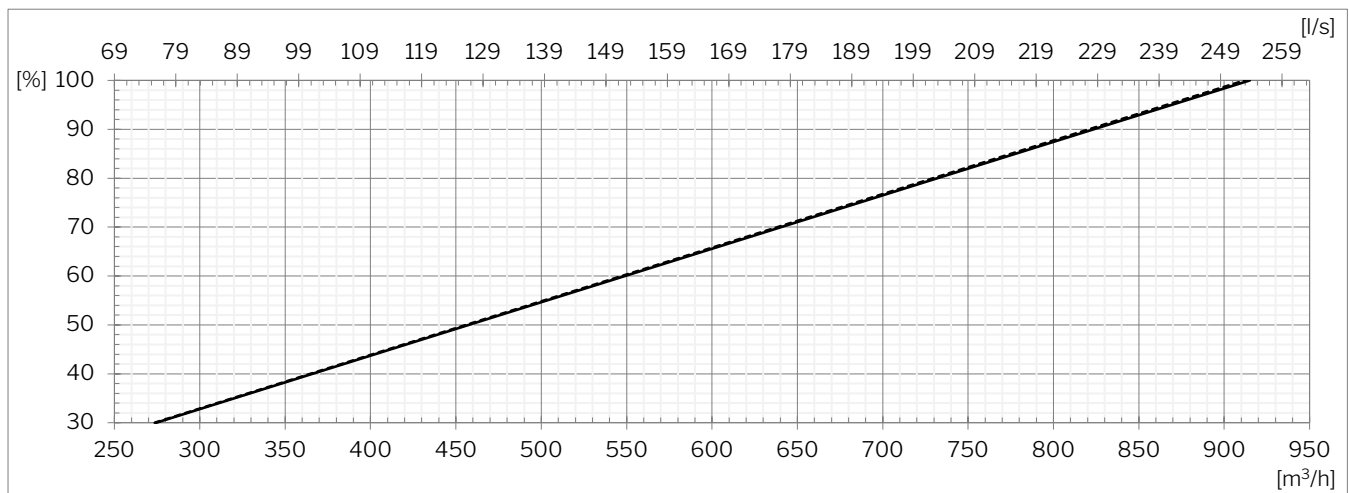
## Capacity at 30 dB(A) sound pressure level<sup>D</sup>



— Intake filter ePM<sub>10</sub> 50% + extract filter ePM<sub>10</sub> 50%

--- Intake filter ePM<sub>1</sub> 55% + extract filter ePM<sub>10</sub> 50%

## Capacity at 35 dB(A) sound pressure level<sup>D</sup>

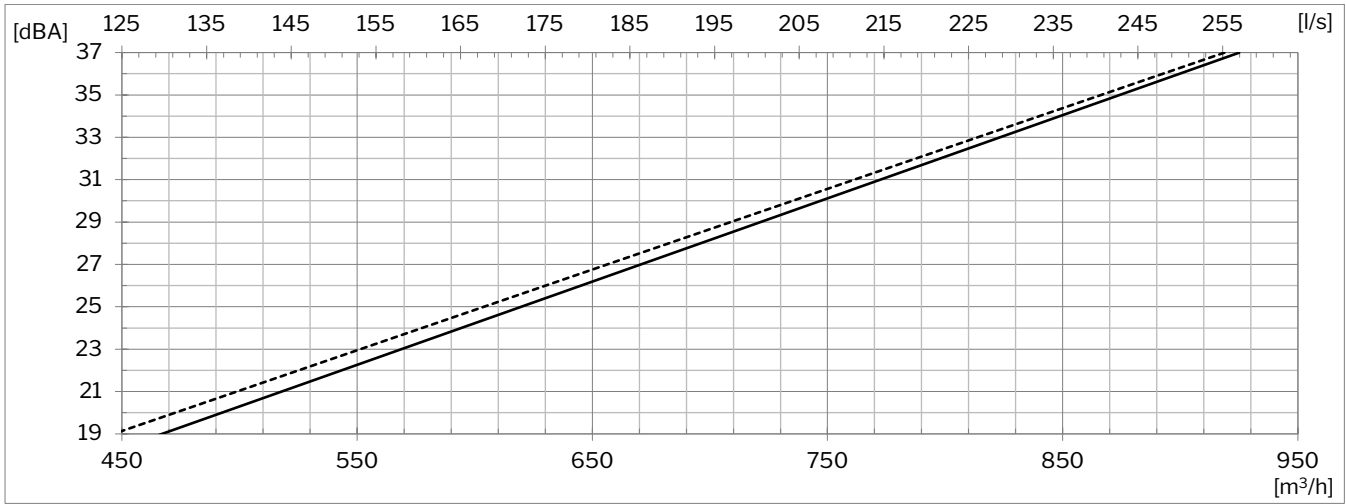


— Intake filter ePM<sub>10</sub> 50% + extract filter ePM<sub>10</sub> 50%

--- Intake filter ePM<sub>1</sub> 55% + extract filter ePM<sub>10</sub> 50%

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

## A-weighted sound pressure level $L_{pA}$ acc. to Airmaster reference situation<sup>E</sup>



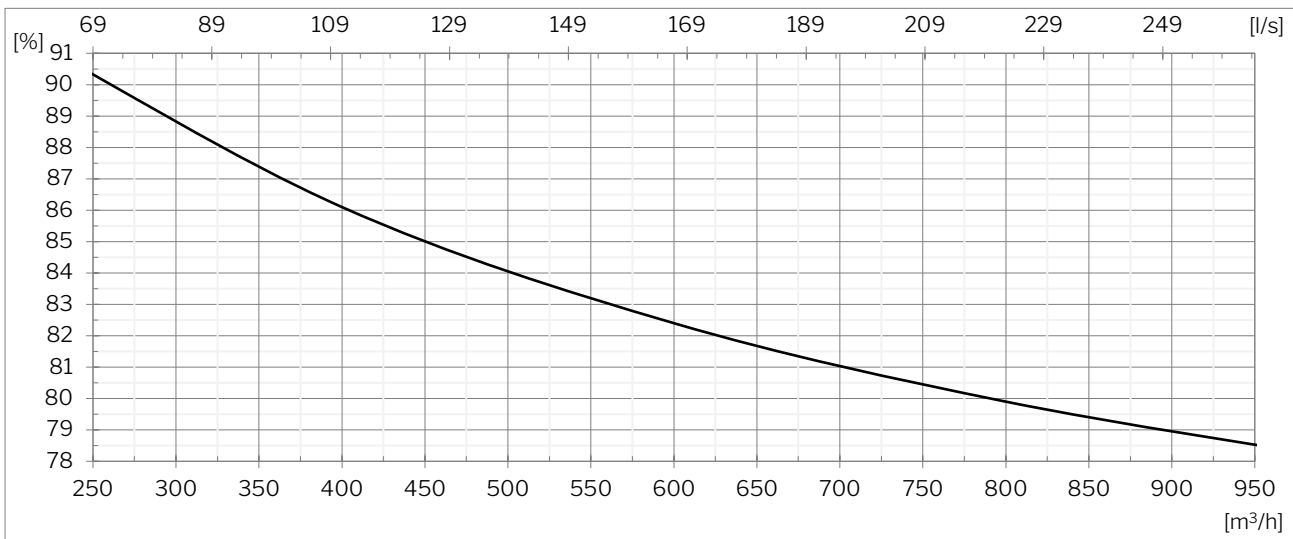
— Intake filter ePM<sub>10</sub> 50% + extract filter ePM<sub>10</sub> 50%

--- Intake filter ePM<sub>1</sub> 55% + extract filter ePM<sub>10</sub> 50%

Low-frequency sound:

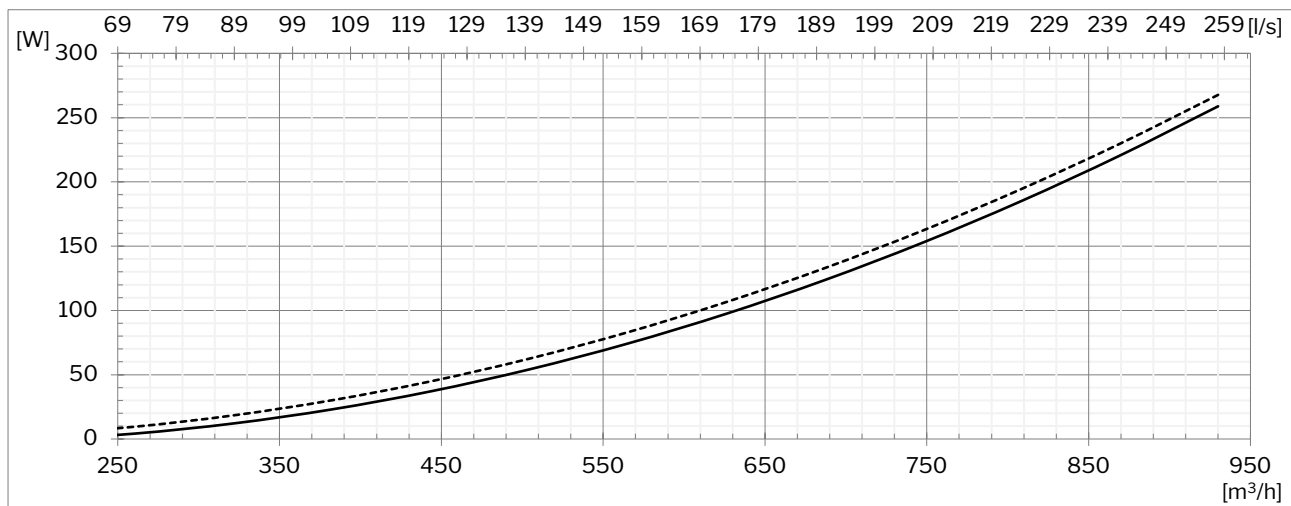
The sound pressure level measured with C-weighting does not exceed levels measured with A-weighting by more than 20 dB.

## Temperature efficiency acc. to EN 308



<sup>E</sup> The sound pressure level is measured at a height of 1.2 m at a horizontal distance of 1 m from the air handling unit.

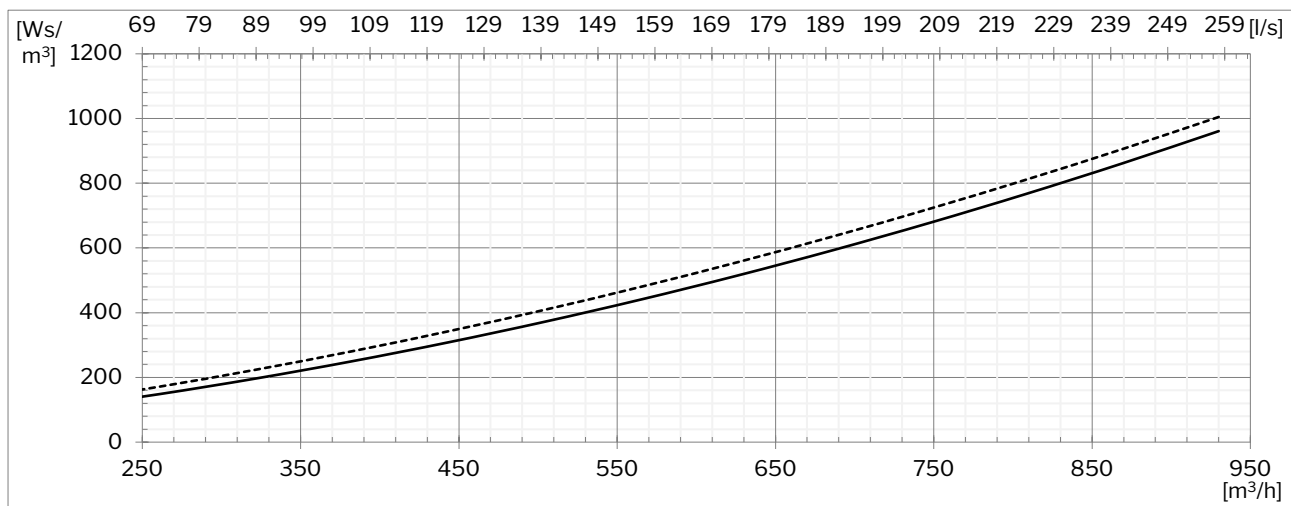
# Power consumption



— Intake filter ePM<sub>10</sub> 50% + extract filter ePM<sub>10</sub> 50%

--- Intake filter ePM<sub>1</sub> 55% + extract filter ePM<sub>10</sub> 50%

# SFP<sup>F</sup>

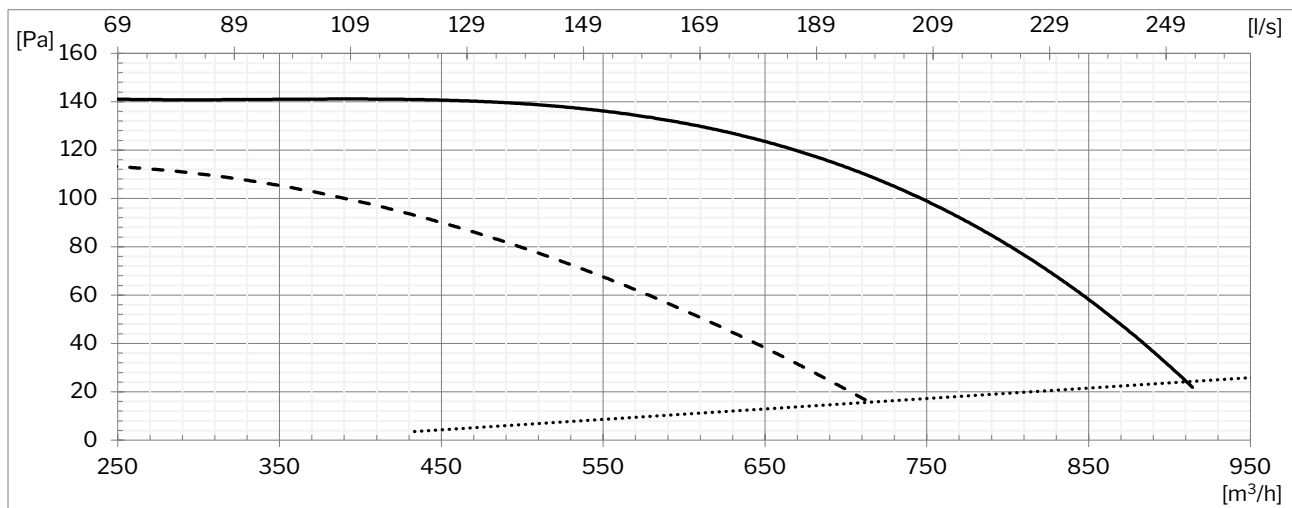


— Intake filter ePM<sub>10</sub> 50% + extract filter ePM<sub>10</sub> 50%

--- Intake filter ePM<sub>1</sub> 55% + extract filter ePM<sub>10</sub> 50%

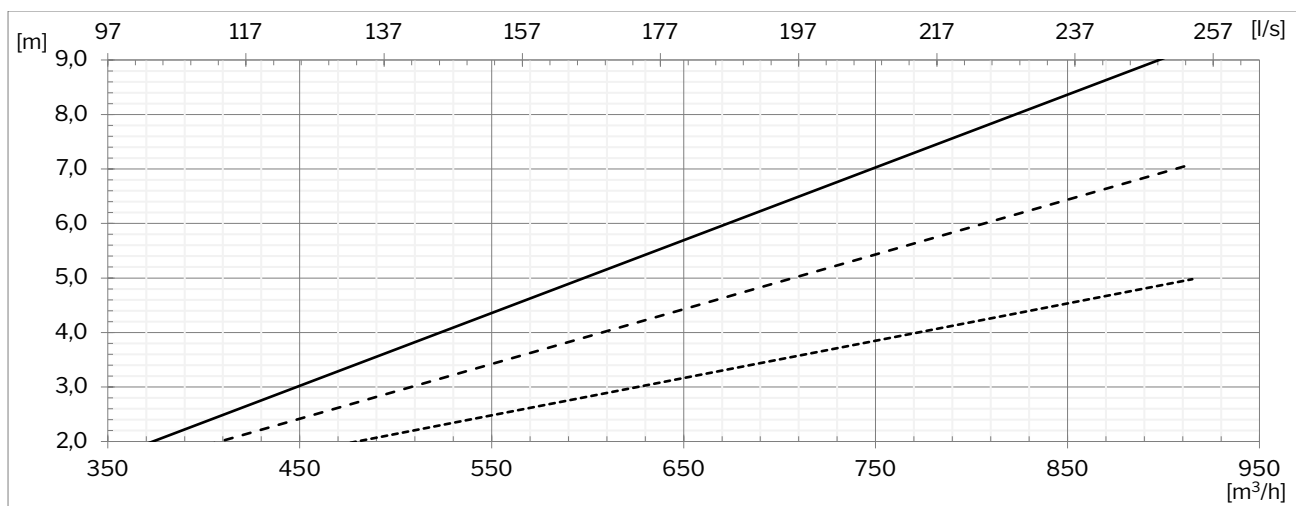
<sup>F</sup> The SFP calculation includes power consumption for operating fans but not controls, display panels, etc.

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



- 35 dB(A)
- 30 dB(A)
- .... Ø315 Boomerain®

## Throw (0.2 m/s)



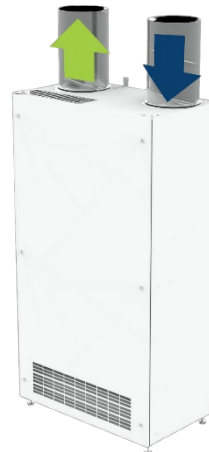
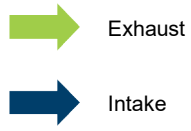
- 0° blade angle
- - 10° blade angle
- · - 30° blade angle

<sup>G</sup> All measurements were performed in normal operating mode in a standard installation using the Ø315 mm Boomerain® façade grills recommended by Airmaster. Filter class: intake filter ePM<sub>1</sub> 55%, extract filter ePM<sub>10</sub> 50%.

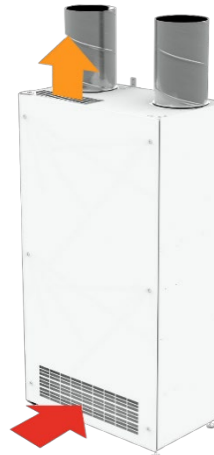
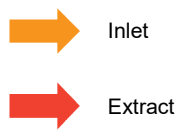
# Version overview

## AME 900 F VV

### Exhaust and intake:



### Inlet and extract:



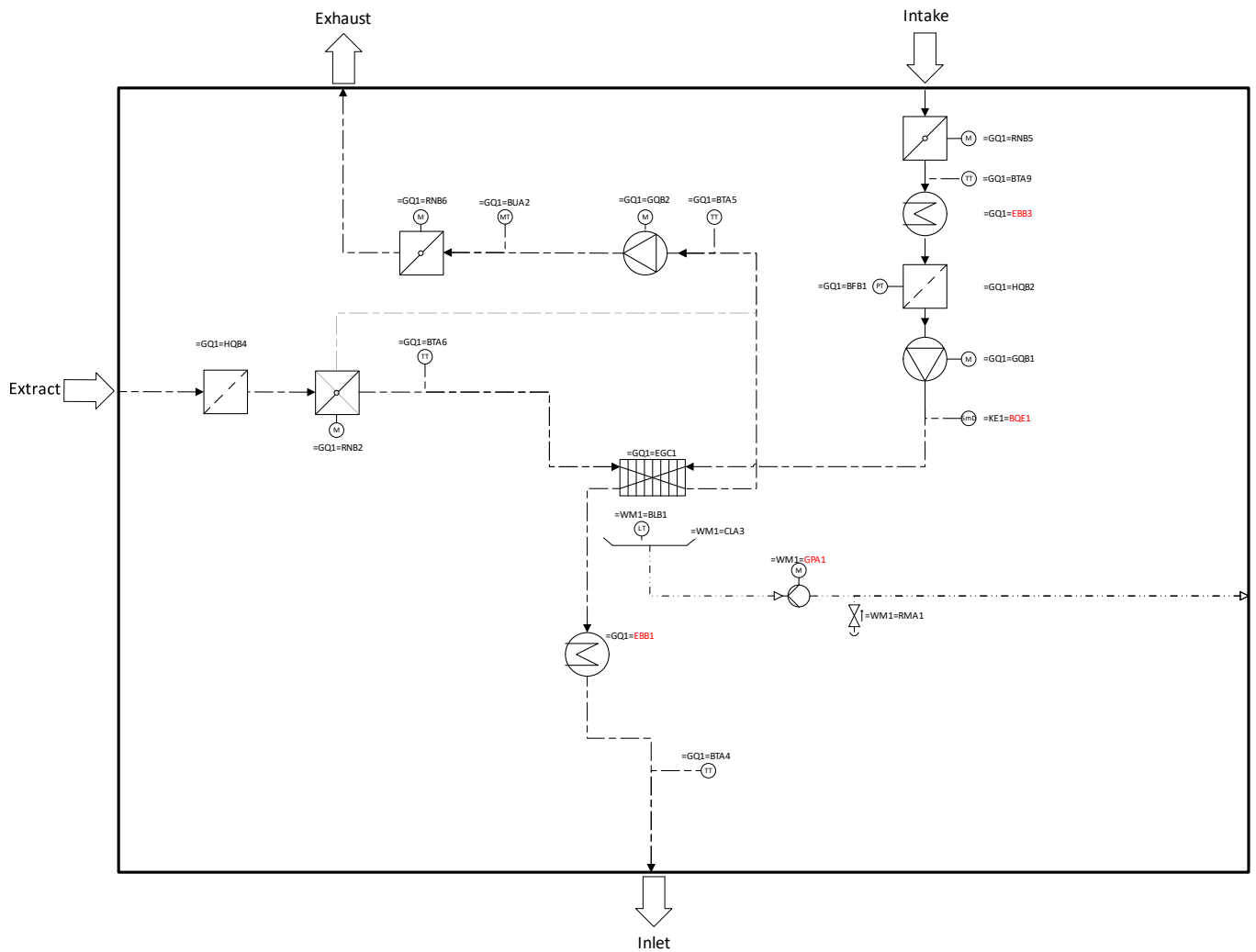
## Standard and options

Counterflow heat exchanger	✓	Intake filter ePM <sub>10</sub> 50%	opt.
Motor-driven bypass	✓	Intake filter ePM <sub>1</sub> 55%	opt.
Motor-driven intake air damper	✓	Extract filter ePM <sub>10</sub> 50%	✓
Motor-driven exhaust air damper	✓	LED (operating mode indicator)	✓
Electric preheating surface	opt.	Airlinq® Orbit control panel	opt.
Electric comfort heating surface	opt.	Airmaster Airlinq® Online	opt.
Condensate pump	opt.	Airlinq® Online API	opt.
Temperature sensor (integrated)	✓	MODBUS® RTU RS485 module	opt.
CO <sub>2</sub> sensor (integrated)	✓		
Smoke detector (integrated)	opt.		

✓: standard   opt.: optional   si: special item



# Schematic sketch



## Component designation:

=GQ1 Ventilation system  
 =WM1 Condensation system  
 =KE1 Control system

=BLB	Float switch	=EBB1	Electric comfort heating surface (option)	=HQB	Filter
=BTA	Temperature sensor	=EBB3	Electric preheating surface (option)	=RMA	Air vent with non-return valve
=BUA	CO <sub>2</sub> sensor	=EGC	Heat exchanger	=RNB	Damper
=BQE1	Smoke detector (option)	=GPA1	Condensate pump (option)		
=CLA	Condensate tray	=GQB	Fan		