

Technical data

	Filter class	30 dB(A)	35 dB(A)	Boost
Maximum capacity ^A	ePM ₁₀ 50%	730 m ³ /h	915 m ³ /h	930 m ³ /h
	ePM ₁ 55%	715 m ³ /h	912 m ³ /h	930 m ³ /h
Throw (0.2 m/s) ^B	ePM ₁₀ 50%	5.2 m	7.1 m	7.5 m
	ePM ₁ 55%	5.1 m	7.1 m	7.5 m
Operating range (max. capacity), outside temperature	-20 °C – +40 °C			
Supply air filter	ePM ₁₀ 50%, ePM ₁ 55%			
Extract air filter	ePM ₁₀ 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 ² / 0.143 m ²			
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 ^C	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 ^C	16 A, 1 phase, type B or 16 A, 3 phase, type B			
Recommended residual current circuit breaker (RCCB)	Type B			

^A 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).

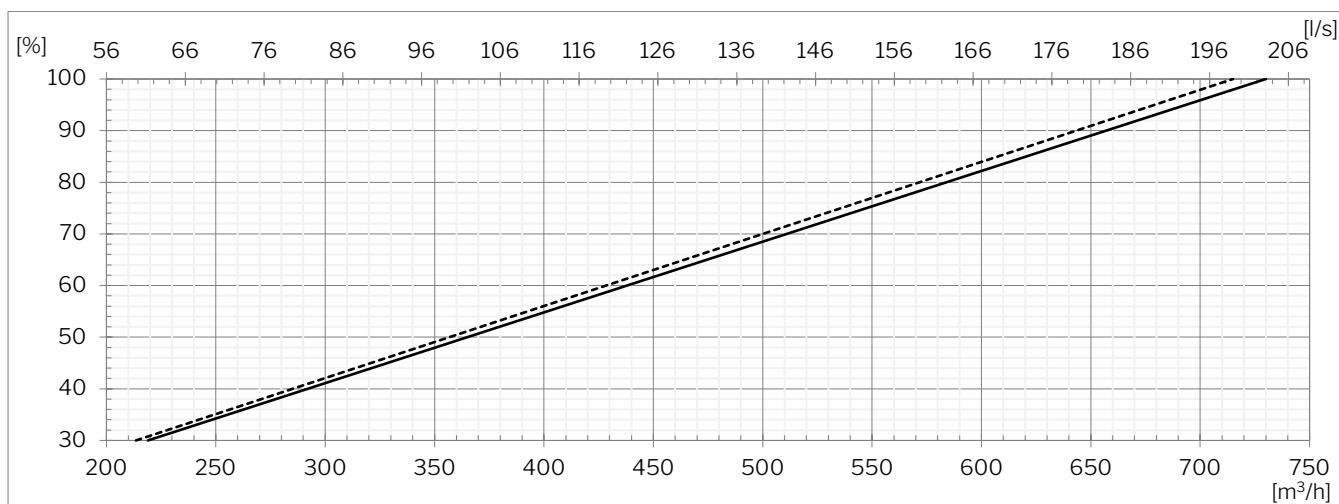
^B The throw is measured with a 2-3 °C subcooled supply air in a test room, dimensioned 8.0 m x 10.0 m x 2.5 m. Measured with supply air filter ePM₁₀ 50% and extract air filter ePM₁₀ 50%.

^C 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

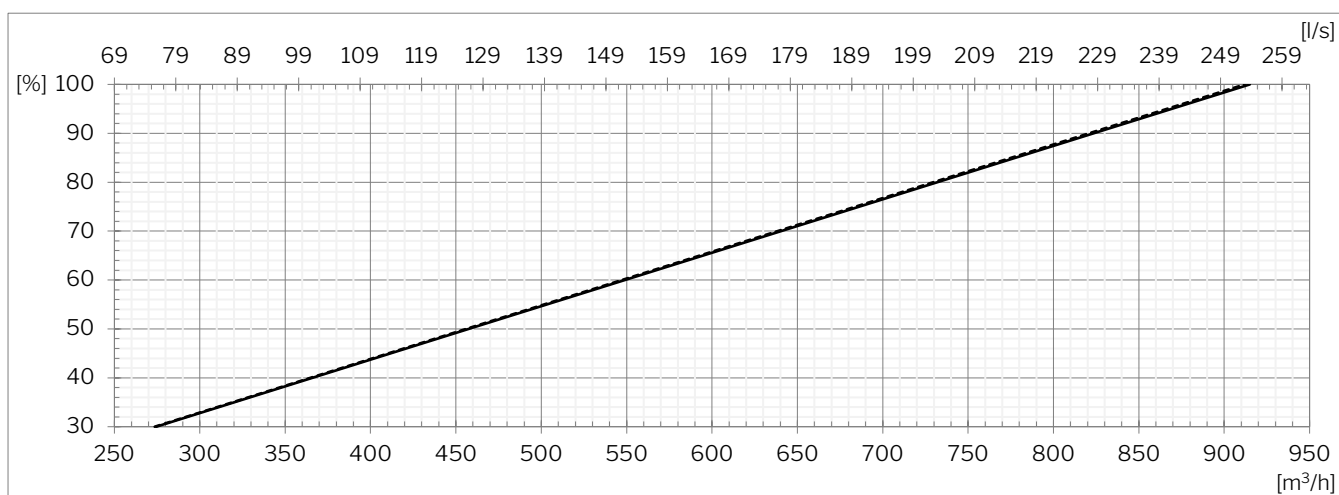
Capacity at 30 dB(A) sound pressure level^D



— Supply air filter ePM₁₀ 50% + extract air filter ePM₁₀ 50%

--- Supply air filter ePM₁ 55% + extract air filter ePM₁₀ 50%

Capacity at 35 dB(A) sound pressure level^D

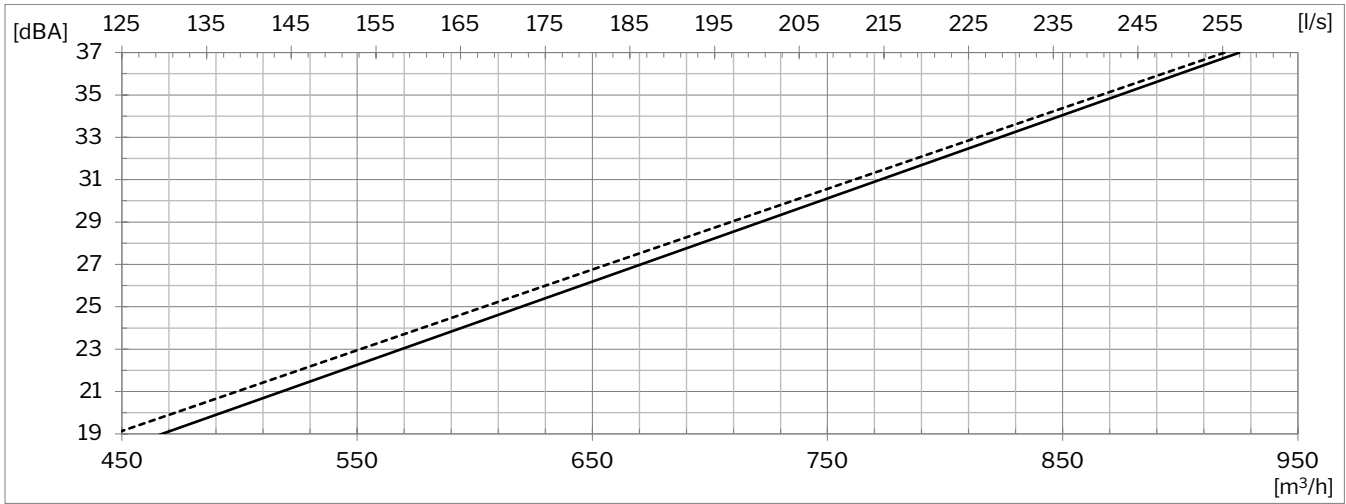


— Supply air filter ePM₁₀ 50% + extract air filter ePM₁₀ 50%

--- Supply air filter ePM₁ 55% + extract air filter ePM₁₀ 50%

^D 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^E



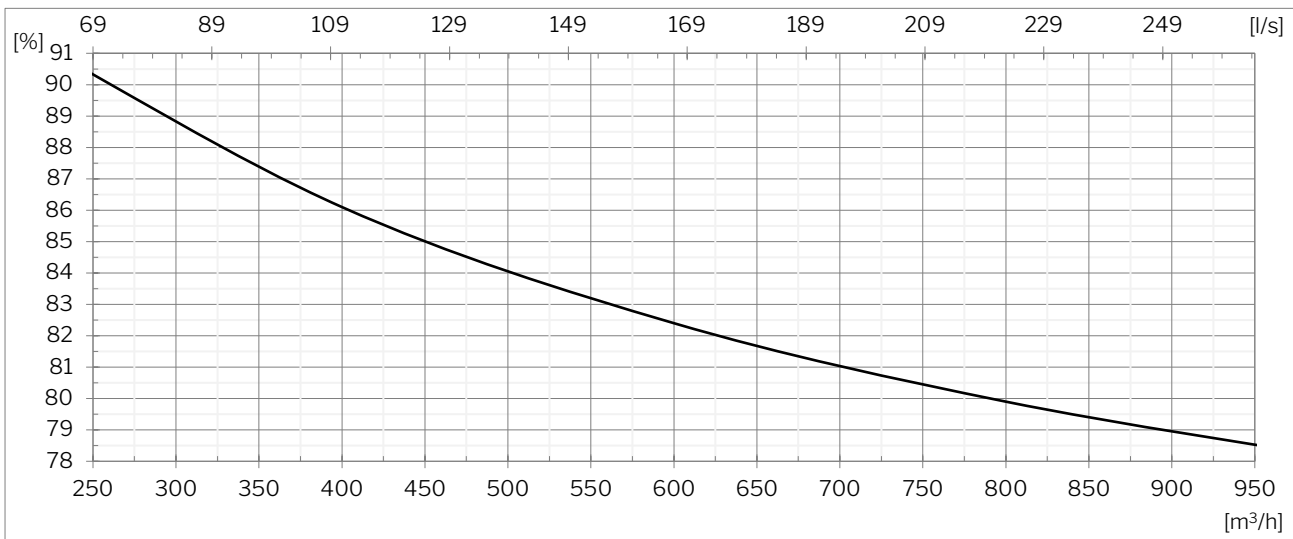
— Supply air filter ePM₁₀ 50% + extract air filter ePM₁₀ 50%

---- Supply air filter ePM₁ 55% + extract air filter ePM₁₀ 50%

Low-frequency sound:

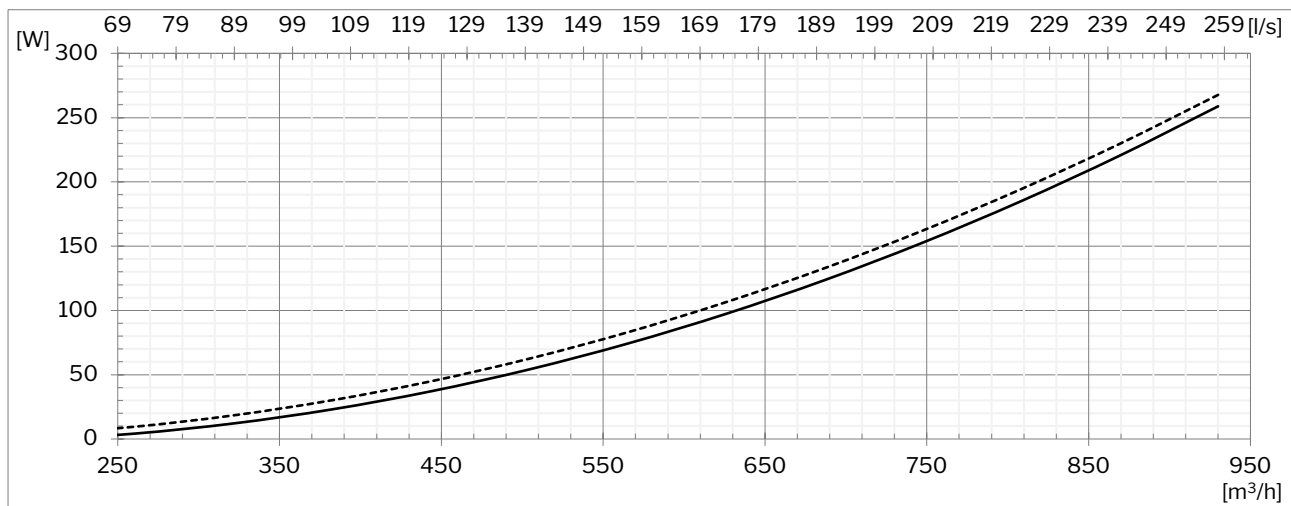
The sound pressure level measured with C-weighting does not exceed levels measured with A-weighting by more than 20 dB.

Temperature efficiency acc. to EN 308



^E 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.

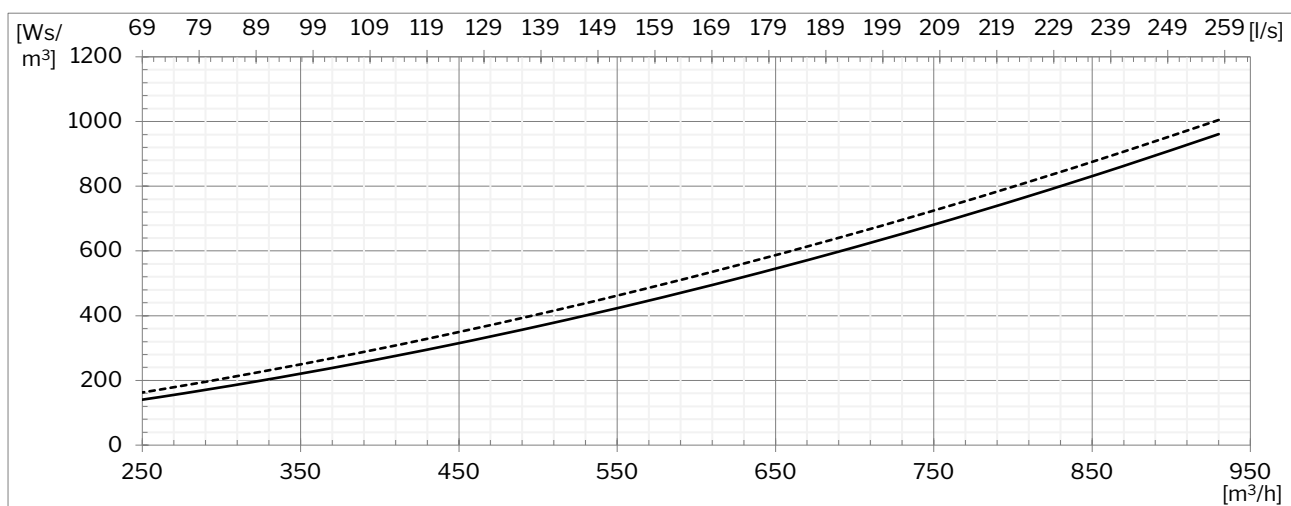
Power consumption



— Supply air filter ePM₁₀ 50% + extract air filter ePM₁₀ 50%

--- Supply air filter ePM₁ 55% + extract air filter ePM₁₀ 50%

SFP^F

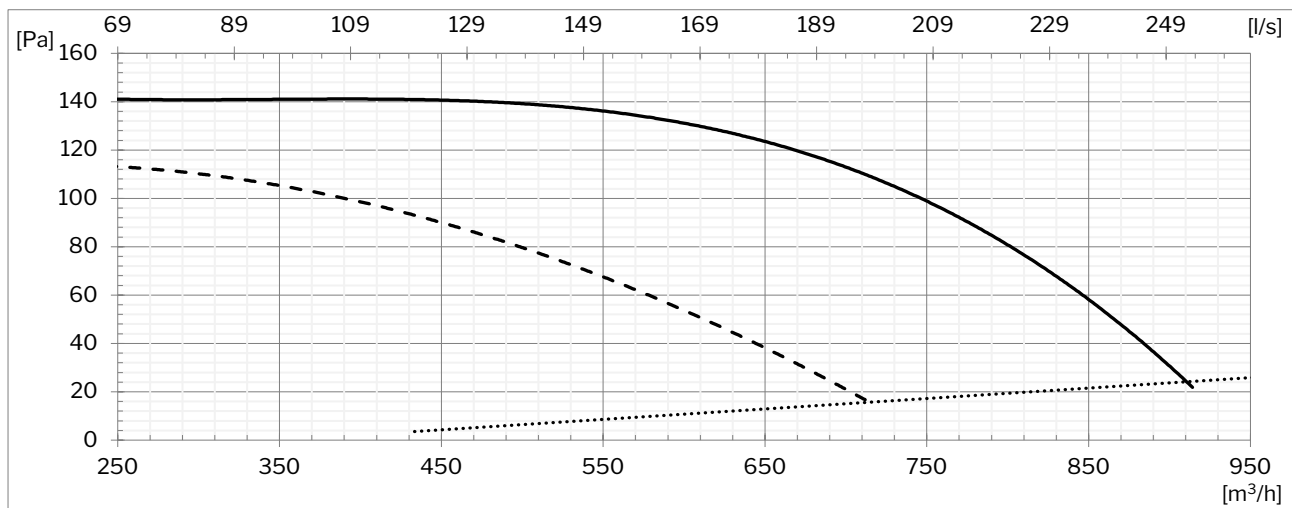


— Supply air filter ePM₁₀ 50% + extract air filter ePM₁₀ 50%

--- Supply air filter ePM₁ 55% + extract air filter ePM₁₀ 50%

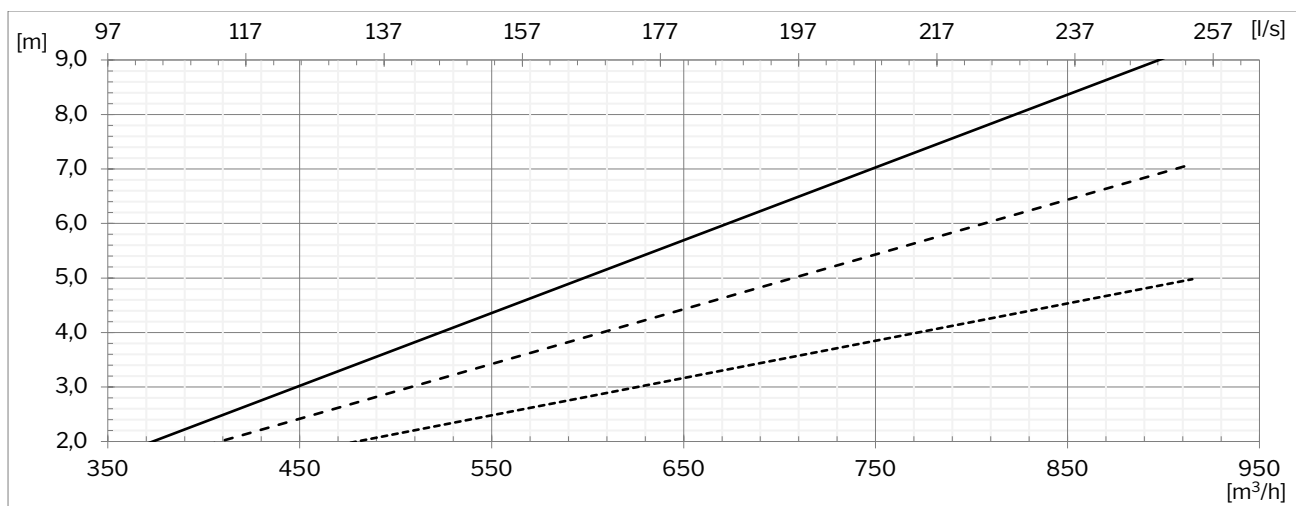
^F The SFP calculation includes power consumption for operating fans but not controls, display panels, etc.

External pressure loss^G



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

Throw (0.2 m/s)



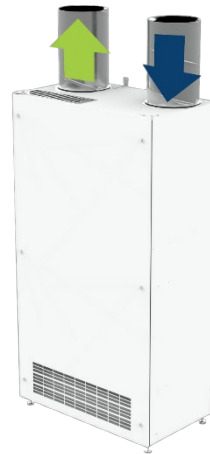
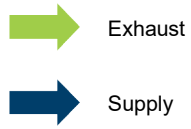
- 0° blade angle
- - 10° blade angle
- · - 30° blade angle

^G All measurements were performed in normal operating mode in a standard installation using the Ø315 mm Boomerain® façade grills recommended by Airmaster. Filter class: supply air filter ePM₁ 55%, extract air filter ePM₁₀ 50%.

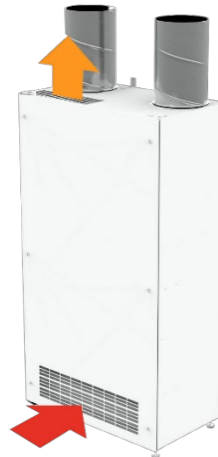
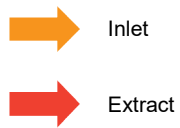
Version overview

AME 900 F VV

Exhaust and supply:



Inlet and extract:

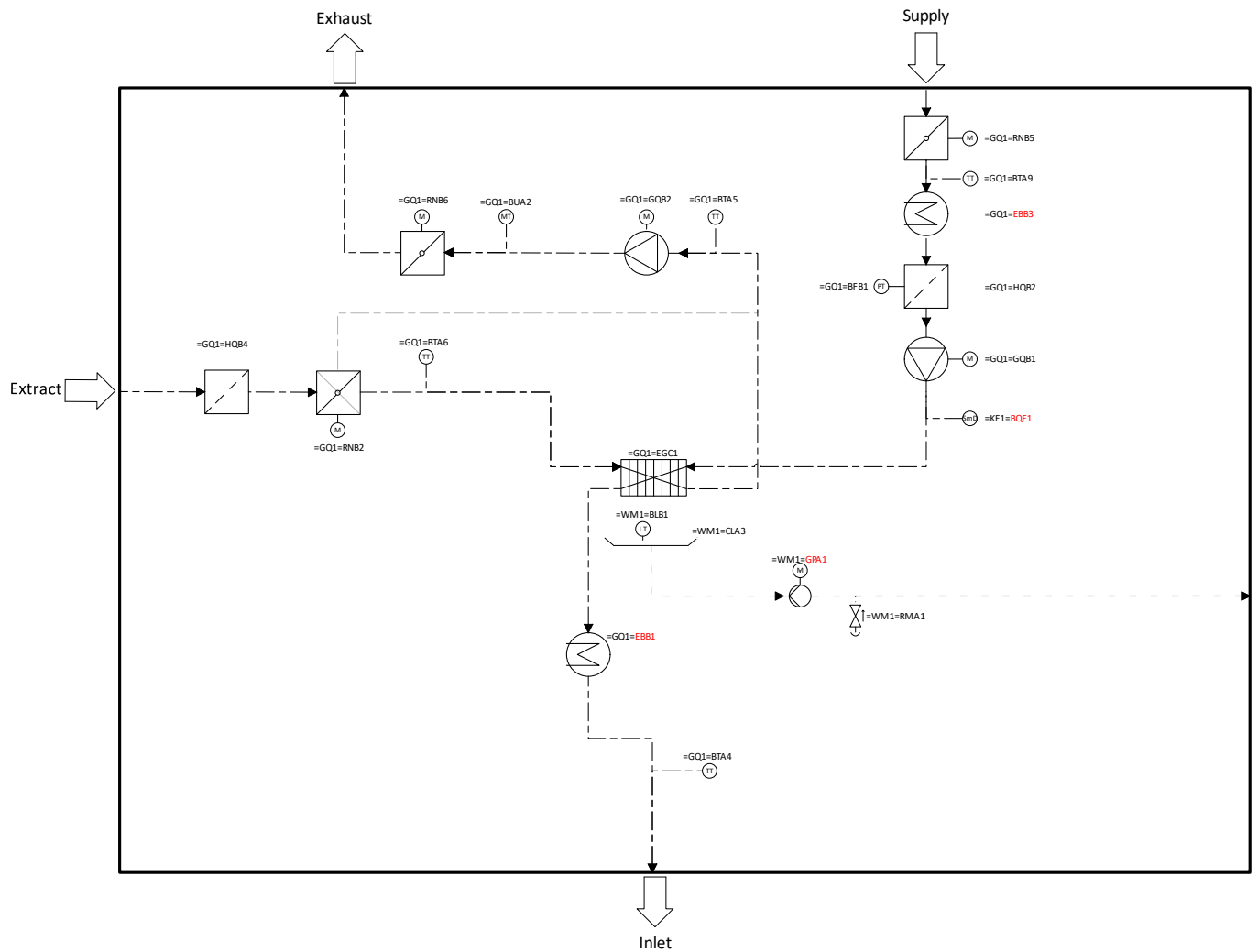


Standard and options

Counterflow heat exchanger (PET)	✓	Supply air filter ePM ₁₀ 50%	opt.
Motor-driven bypass	✓	Supply air filter ePM ₁ 55%	opt.
Motor-driven supply air damper	✓	Extract air filter ePM ₁₀ 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 ₂ 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
 =BTA Temperature sensor
 =BUA CO₂ sensor
 =BQE1 Smoke detector (option)
 =CLA Condensate tray

=EBB1 Electric comfort heating surface (option)
 =EBB3 Electric preheating surface (option)
 =EGC Heat exchanger
 =GPA1 Condensate pump (option)
 =GQB Fan

=HQB Filter
 =RMA Air vent with non-return valve
 =RNB Damper