

Technical data

	Filter class	30 dB(A)	35 dB(A)	Boost
Maximum capacity ^A	ePM ₁₀ 50%	745 m³/h	950 m³/h	980 m³/h
	ePM ₁ 55%	740 m³/h	940 m³/h	965 m³/h
	ePM ₁ 80%	720 m³/h	930 m³/h	960 m³/h
Throw (0.2 m/s) ^B	ePM ₁₀ 50%	6.3 m	8.0 m	8.3 m
	ePM ₁ 55%	6.2 m	7.9 m	8.1 m
	ePM ₁ 80%	6.1 m	7.8 m	8.1 m
Operating range (max. capacity), outside temperature	-20 °C – +40 °C			
Intake filter	ePM ₁₀ 50%, ePM ₁ 55%, ePM ₁ 80%			
Extract filter	ePM ₁₀ 50%			
Dimensions (Width x Depth x Height)	2167 x 1613 x 505 mm			
Weight: standard air handling unit, complete	340 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, inner / outer	0.0956 m² / 0.157 m²			
Free area, extract opening	0.088 m²			
Condensate pump: capacity / lifting head 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).

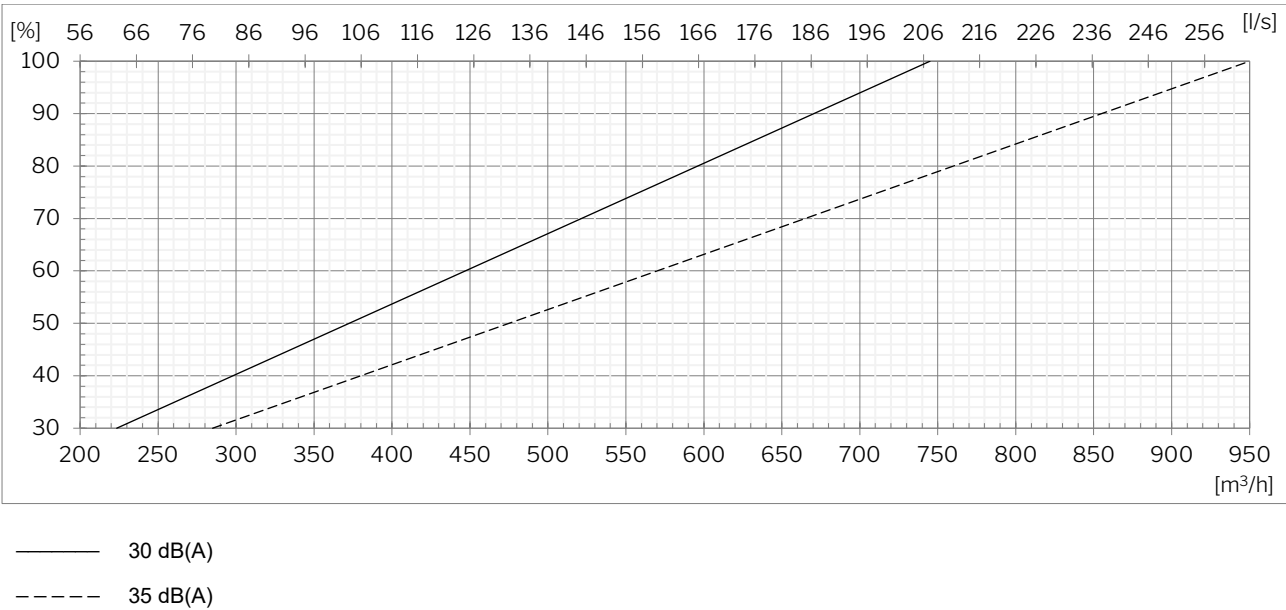
^B The throw is measured with a 2-3°C subcooled intake air in a test room, dimensioned 8.0 m x 10.0 m x 2.5 m. Measured with extract filter ePM₁₀ 50%.

^C A 3-phase connection must be used if the electric preheating surface is chosen.

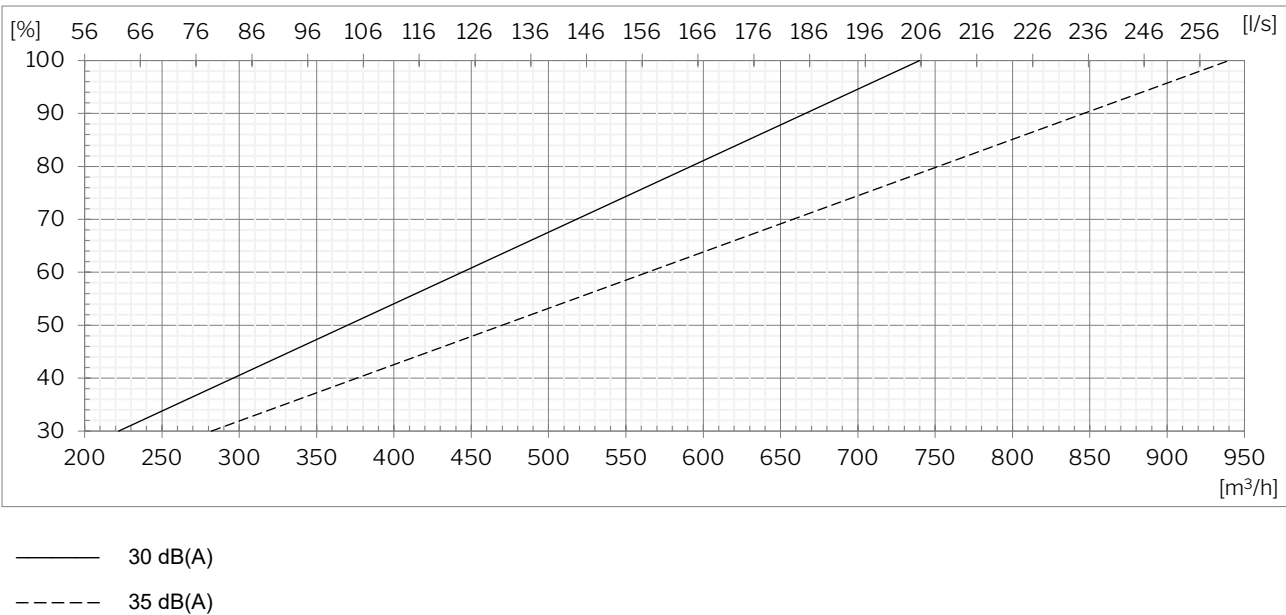
Electrical heating surfaces

	Preheating surface	Comfort heating surface
Heat output	2300 W	1800 W
Nominal current	10.00 A @ 230 V	7.83 A @ 230 V
Thermal circuit breaker, automatic reset	50 °C	50 °C
Thermal circuit breaker, manual reset	100 °C	100 °C

Capacity with intake filter ePM₁₀ 50% + extract filter ePM₁₀ 50%^D

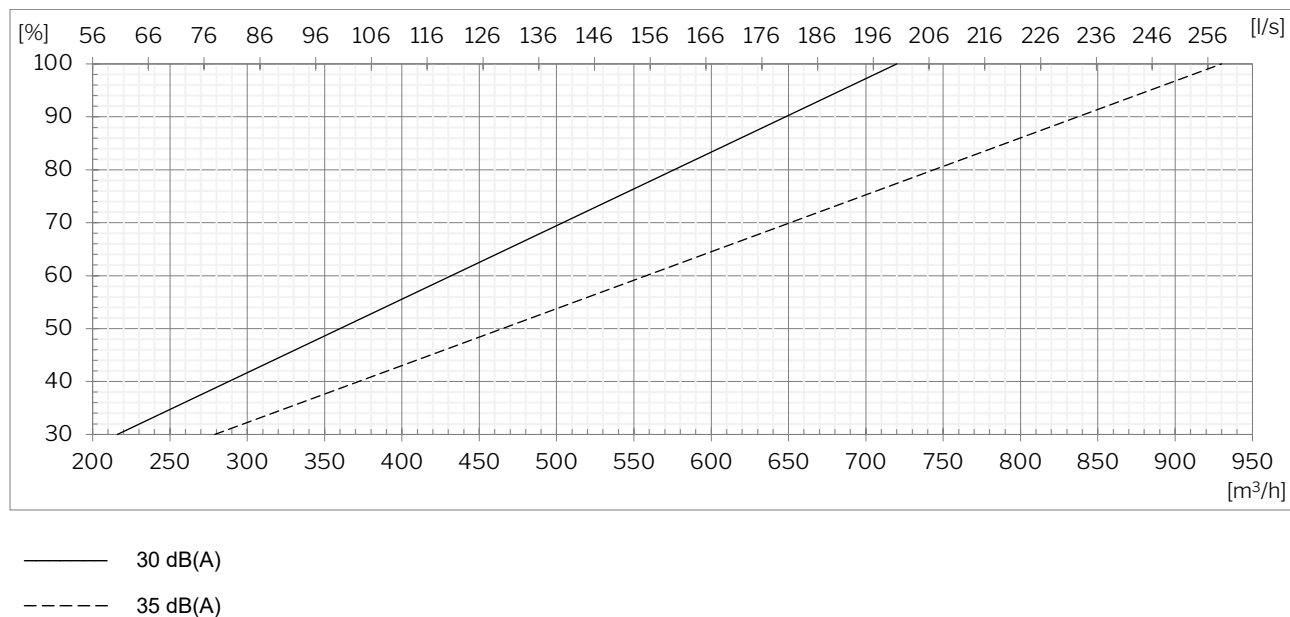


Capacity with intake filter ePM₁ 55% + extract filter ePM₁₀ 50%^D

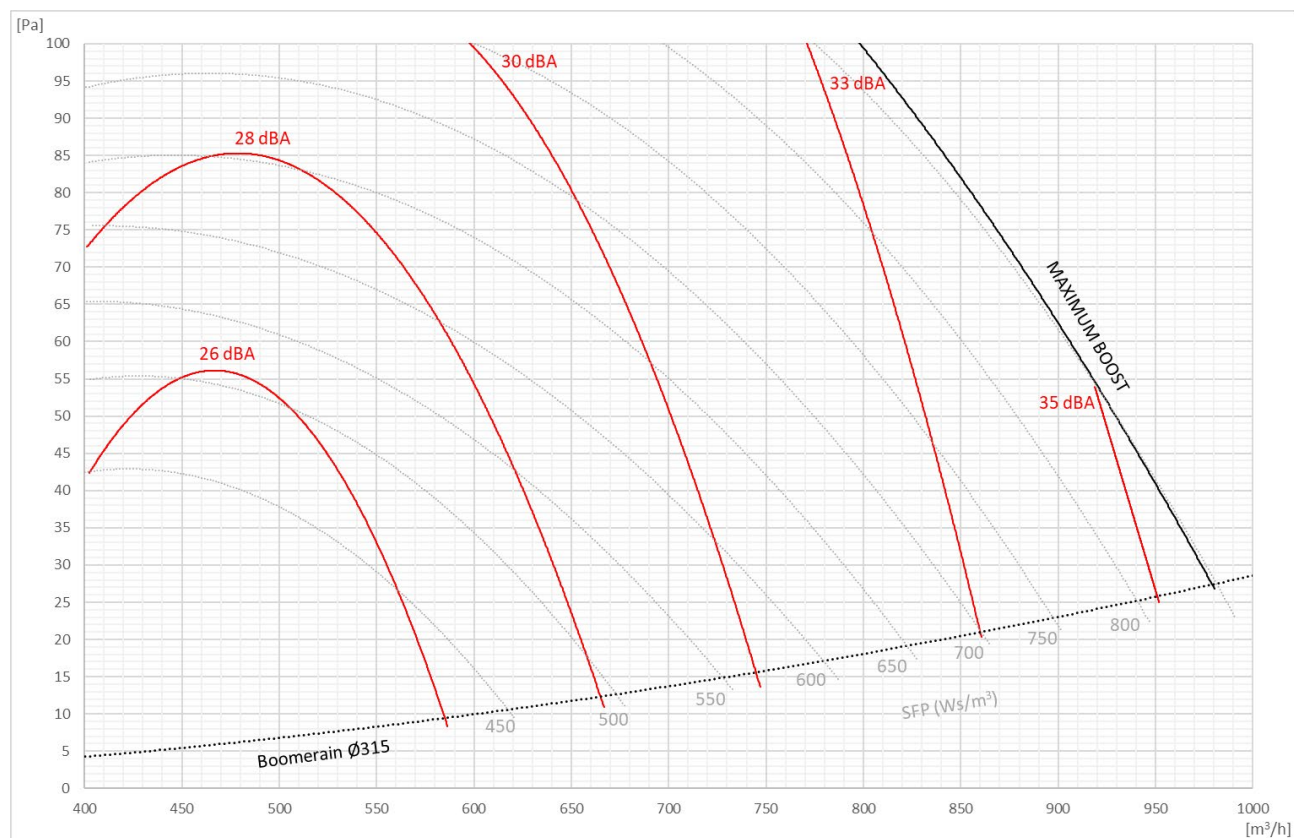


^D All measurements were performed in normal operating mode in a standard installation using the Ø315 mm Airmaster Boomerain® façade grilles.

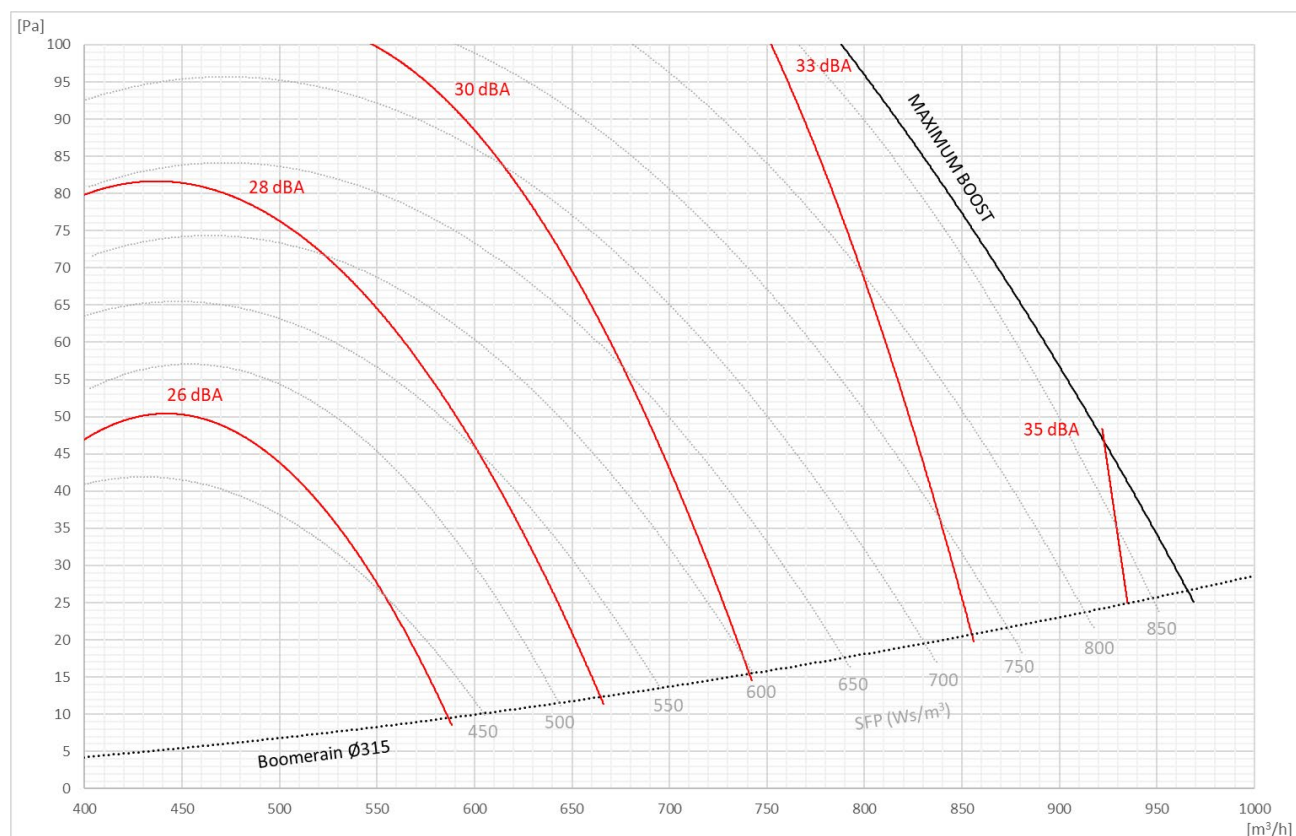
Capacity with intake filter ePM₁ 80% + extract filter ePM₁₀ 50%^D



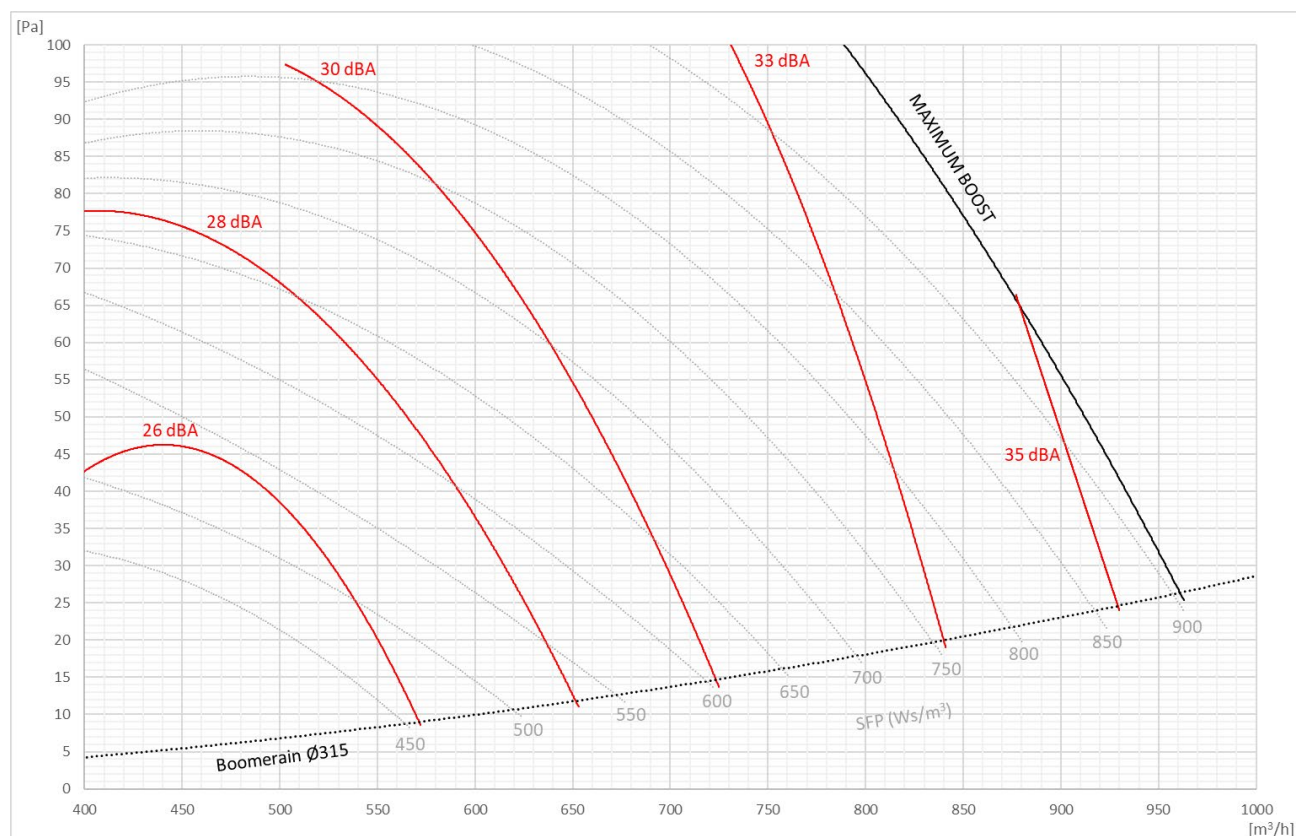
Performance chart with intake filter ePM₁₀ 50% + extract filter ePM₁₀ 50%



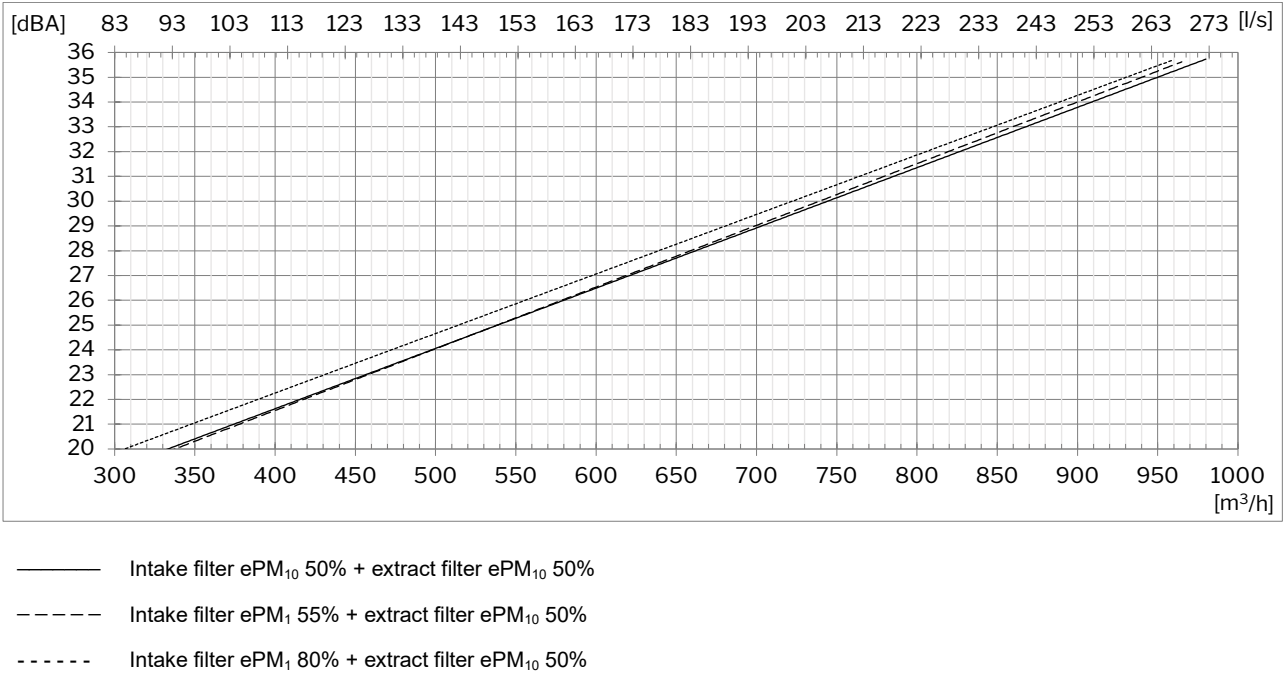
Performance chart with intake filter ePM₁ 55% + extract filter ePM₁₀ 50%



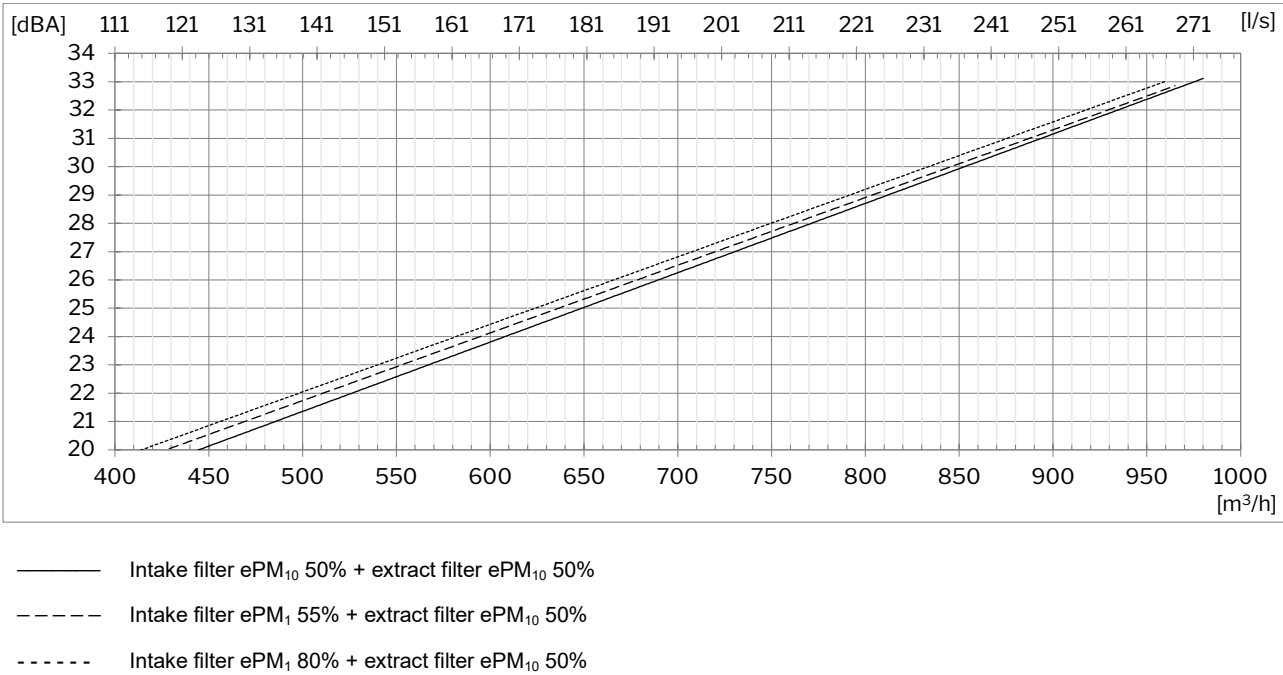
Performance chart with intake filter ePM₁ 80% + extract filter ePM₁₀ 50%



A-weighted sound pressure level L_{pA}^E



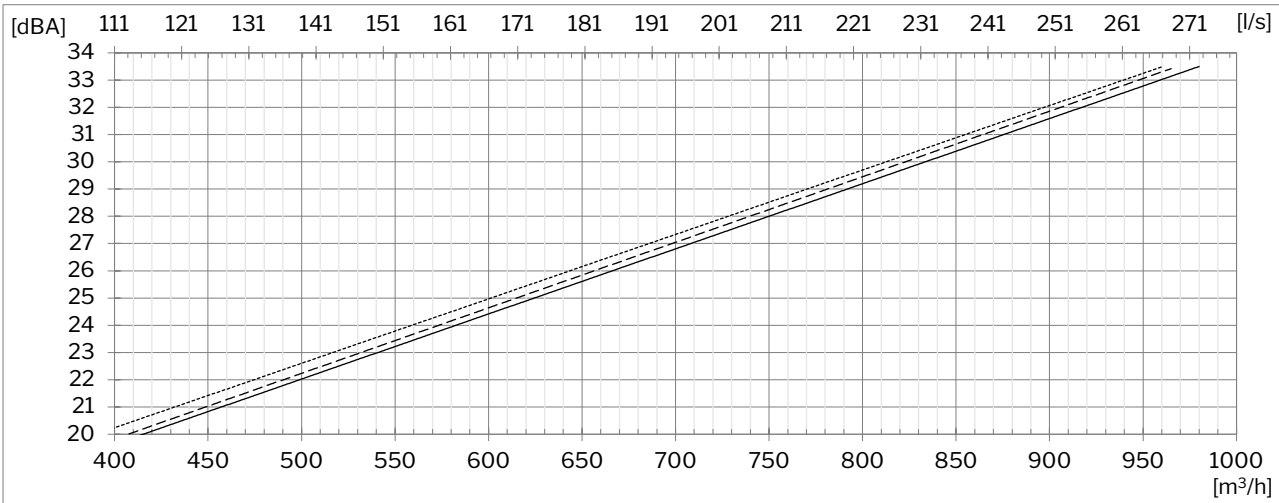
A-weighted sound pressure level L_{pA}^F



^E The sound pressure level is measured at a height of 1.2 m at a horizontal distance of 1 m from the unit according to Airmaster reference situation.

^F The sound pressure level is measured at a height of 1.5 m at a horizontal distance of 3 m from the unit.

A-weighted sound pressure level L_{pA}^G

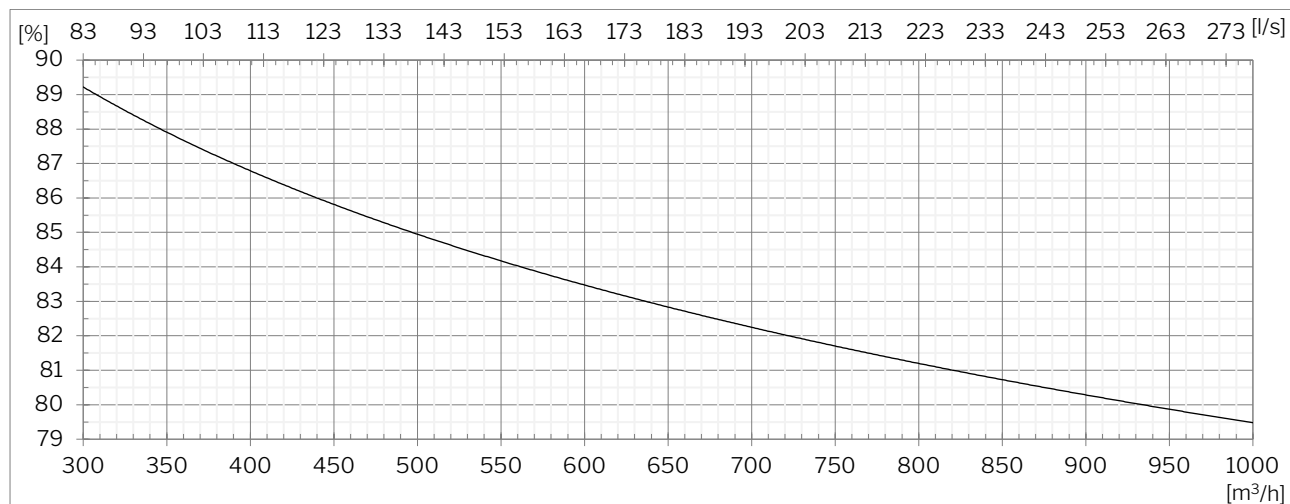


- Intake filter ePM₁₀ 50% + extract filter ePM₁₀ 50%
- Intake filter ePM₁ 55% + extract filter ePM₁₀ 50%
- Intake filter ePM₁ 80% + extract filter ePM₁₀ 50%

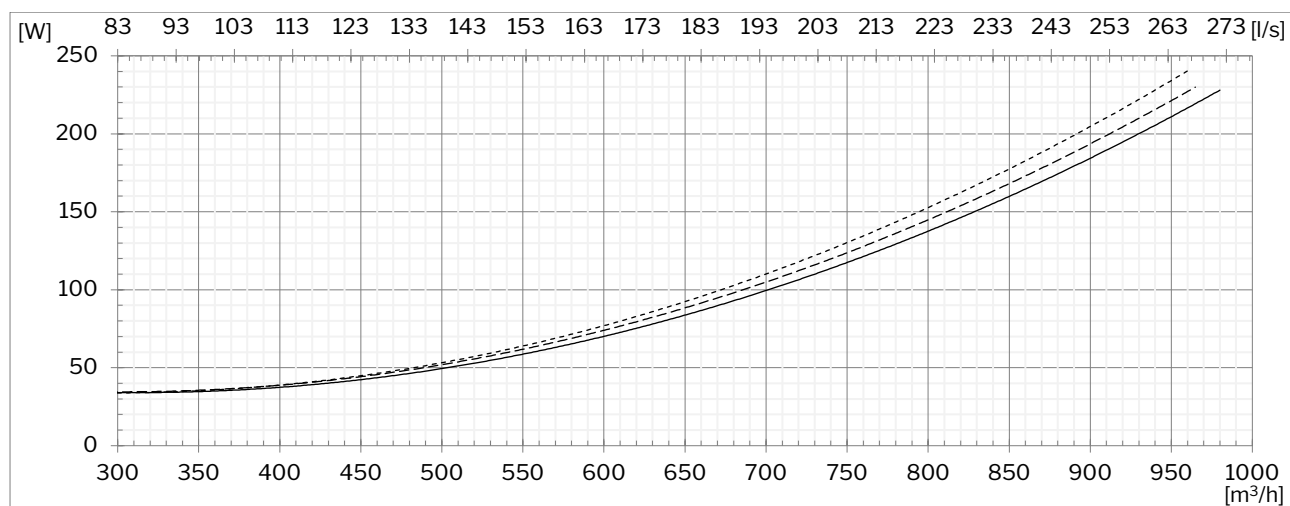
Low-frequency sound:
The sound pressure level measured with C-weighting does not exceed levels measured with A-weighting by more than 20 dB.

^G The sound pressure level is measured in three positions, the result is based on power average.
Position 1: measured at a height of 1.2 m at a horizontal distance of 1 m from the unit.
Position 2: measured at a height of 1.5 m at a horizontal distance of 3 m from the unit.
Position 3: measured at a height of 1.5 m, far right corner in the test room, 1.5 m from each wall.

Temperature efficiency acc. to EN 308

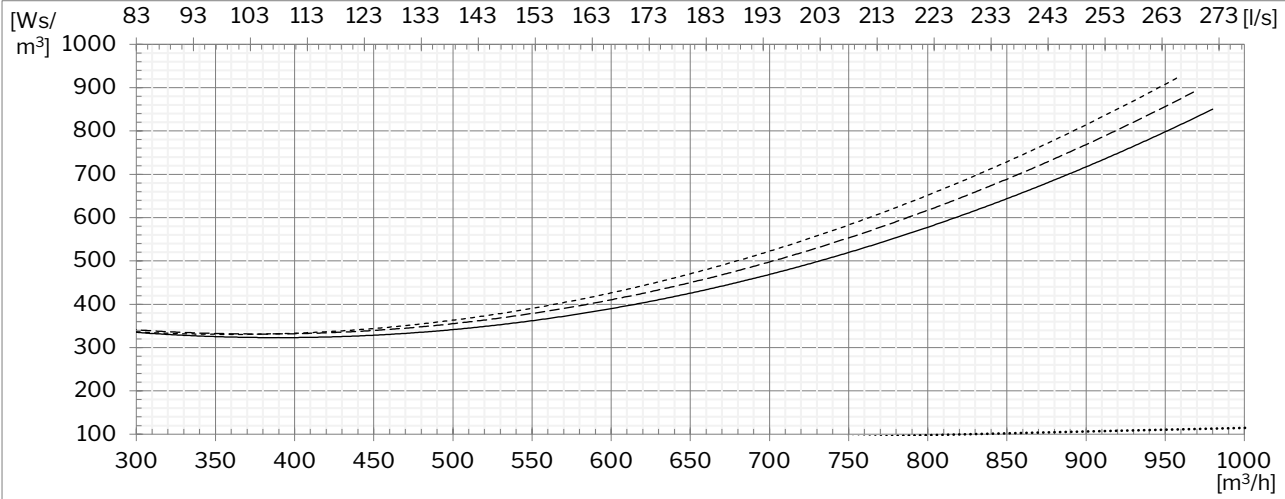


Power consumption



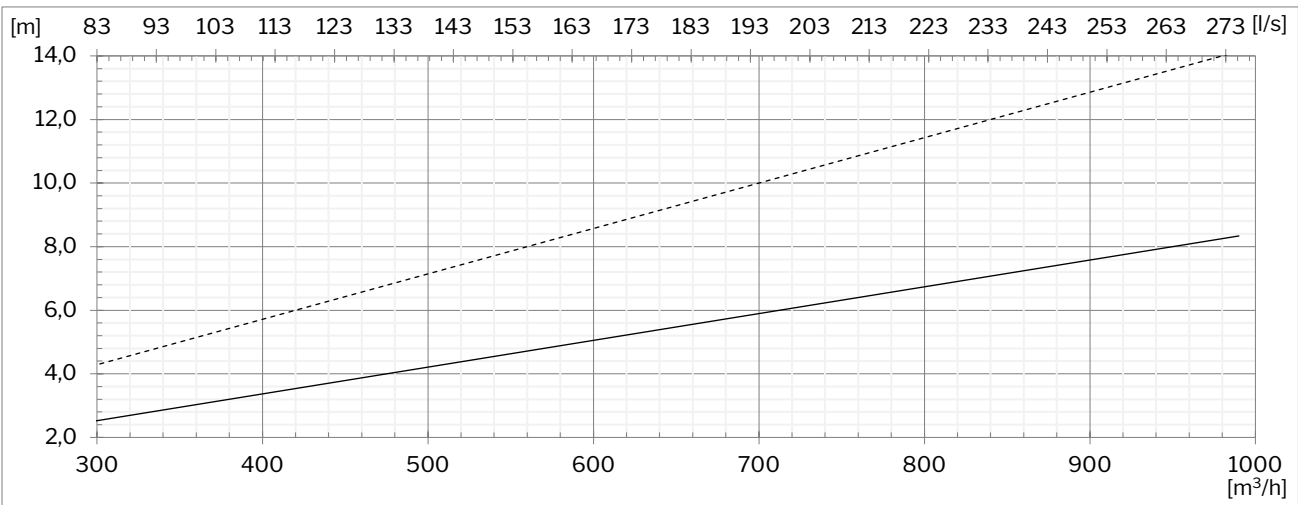
- Intake filter ePM₁₀ 50% + extract filter ePM₁₀ 50%
- - - - Intake filter ePM₁ 55% + extract filter ePM₁₀ 50%
- - - - Intake filter ePM₁ 80% + extract filter ePM₁₀ 50%

SFP^H

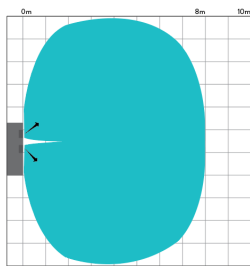


- Intake filter ePM₁₀ 50% + extract filter ePM₁₀ 50%
- Intake filter ePM₁ 55% + extract filter ePM₁₀ 50%
- Intake filter ePM₁ 80% + extract filter ePM₁₀ 50%

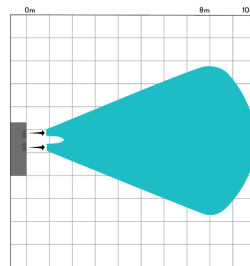
Throw (0.2 m/s)



- Diffuser standard factory configuration @ 0.2 m/s
- Diffuser long throw configuration @ 0.2 m/s



Standard



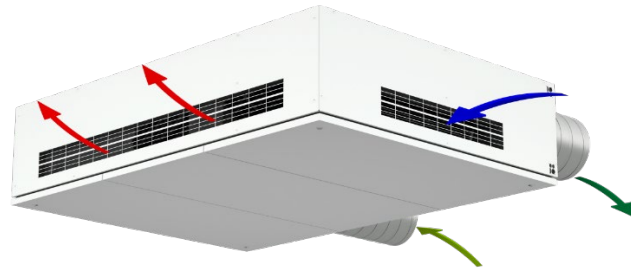
Long throw

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

Version overview

HHBB

-  Exhaust
-  Intake
-  Inlet
-  Extract



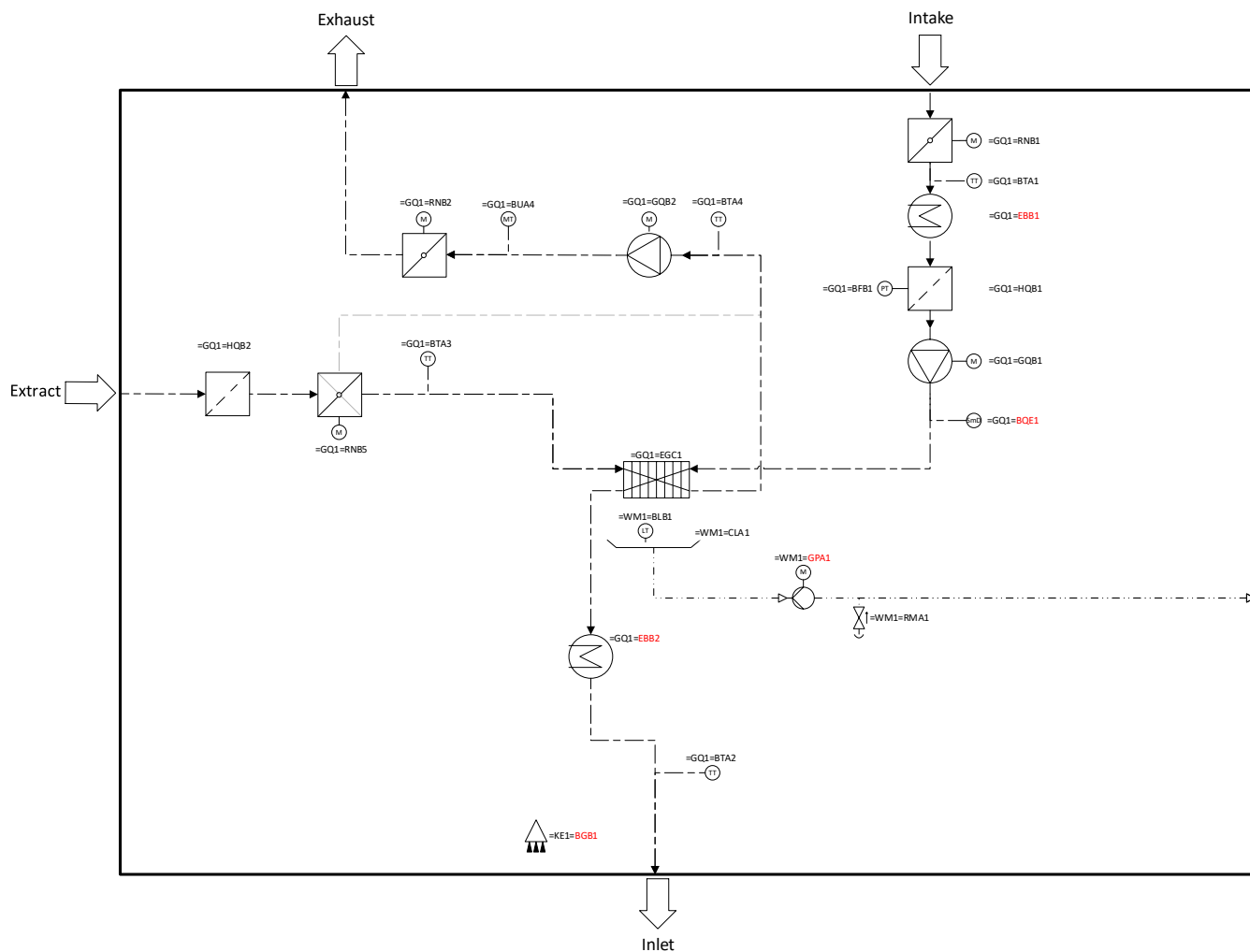
Standard and options

Counterflow heat exchanger	✓
Motor-driven bypass	✓
Motor-driven intake air damper	✓
Motor-driven exhaust air damper	✓
Electric preheating surface	opt.
Electric comfort heating surface	opt.
Condensate pump	opt.
CO ₂ sensor, integrated	opt.
TVOC sensor, integrated	opt.
CO ₂ & TVOC sensor, integrated	opt.
Motion sensor, integrated	opt.
Motion sensor, wall-mounted	opt.
Hygrostat, wall-mounted	si
Smoke detector, integrated	opt.
Energy Meter, single-phase	opt.
Energy Meter, three-phase	opt.

Intake filter ePM ₁₀ 50%	opt.
Intake filter ePM ₁ 55%	opt.
Intake filter ePM ₁ 80%	si
Extract filter ePM ₁₀ 50%	✓
LED (operating mode indicator)	✓
Airlinq® Viva control panel	opt.
Airlinq® Orbit control panel	opt.
Airmaster Airlinq® Online Stand-alone	opt.
Airmaster Airlinq® Online	opt.
Airlinq® Online API	opt.
Airlinq® BMS	opt.
MODBUS® RTU RS485 module	opt.
BACnet™ IP	opt.
BACnet™ MS/TP	opt.

✓: standard opt.: optional si: special item

Schematic sketch



Component designation:

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

=BFB Pressure monitor
 =BGB1 Motion sensor (option)
 =BLB Float switch
 =BTA Temperature sensor
 =BUA CO₂ sensor

=BQE Smoke detector (option)
 =CLA Condensate tray
 =EBB1 Electric preheating surface (option)
 =EBB2 Electric comfort heating surface (option)
 =EGC Heat exchanger

=GPA1 Condensate pump (option)
 =GQB Fan
 =HQB Filter
 =RMA Air vent with non-return valve
 =RNB Damper