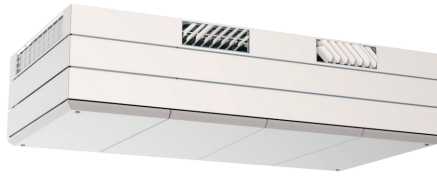


Data Sheet AM 1000



Technical data	Filter class	30 dB(A)	35 dB(A)
Maximum capacity ¹	ePM ₁₀ 50%	950 m³/h	1050 m³/h
	ePM ₁ 55%	926 m³/h	1024 m³/h
	ePM ₁ 80%	903 m³/h	998 m³/h
Throw (0,2 m/s) ²	ePM ₁₀ 50%	8,0 m	9,5 m
	ePM ₁ 55%	7,6 m	9,1 m
	ePM ₁ 80%	7,2 m	8,7 m
Supply air filter	ePM ₁₀ 50%, ePM ₁ 55% or ePM ₁ 80%		
Extract air filter	ePM ₁₀ 50%		
Dimensions (WxHxD)	2325 x 561 x 1283 mm		
Weight: Standard unit complete; centre -, left -, right -, front module; service covers	301,5 kg; 131 kg; 61 kg; 36 kg; 19 kg; 35 kg		
Color, Panel / Color, Case	RAL 9010 (white) / RAL 7024 (grey)		
Counterflow heat exchanger	Aluminium		
Air leakage classification cf. EN1886/EN13141-7	Class L2 / A1		
Air leakage classification, main damper, cf. EN1751	Class 3		
IP code	10		
Duct connection ³	Ø315 mm		
Condensate pump (capacity/lifting height at 5 l/h)	10 l/h / 6 m		
Condensate drain hose internal/external diameter	Ø6 mm / Ø9 mm		
Supply voltage: single-phase ⁴ ; three-phase ⁴	220-240V/50Hz, ~1N+PE; 220-240V/50Hz, ~3N+PE		
Maximum power consumption	354 W		
Maximum current	2,76 A		
Power factor	0,56		
Maximum fuse	16 A (1 phase, type B) 3 x 16 A (3 phases, type B). When choosing a pre-heating surface, a 3-phase connection must be used		
Leakage current	≤ 4 mA		
Recommended residual current circuit breaker (RCCB)	Type B		
Electrical heating surfaces		Preheating surface	Comfort heating surface
Heat output		2300 W	1500 W
Nominal current		10 A	6,5 A
Thermal cutout, automatic reset		50 °C	50 °C
Thermal cutout, manual reset		100 °C	100 °C
Water heating surface			
Nominel heat output ⁵		2540 W	
Connection dimension		1/2" (DN 15)	
Materials pipes/fins		Copper/aluminum	
Opening/closing time, motor valve		60 s	
Maximum operating temperature		90 °C	
Maximum operating pressure		5 bar	

¹ All measurements were performed with an AM 1000 HH TT in normal operating mode in a standard installation, using the wall grilles Ø315 recommended by Airmaster with a room attenuation of 9 dB.

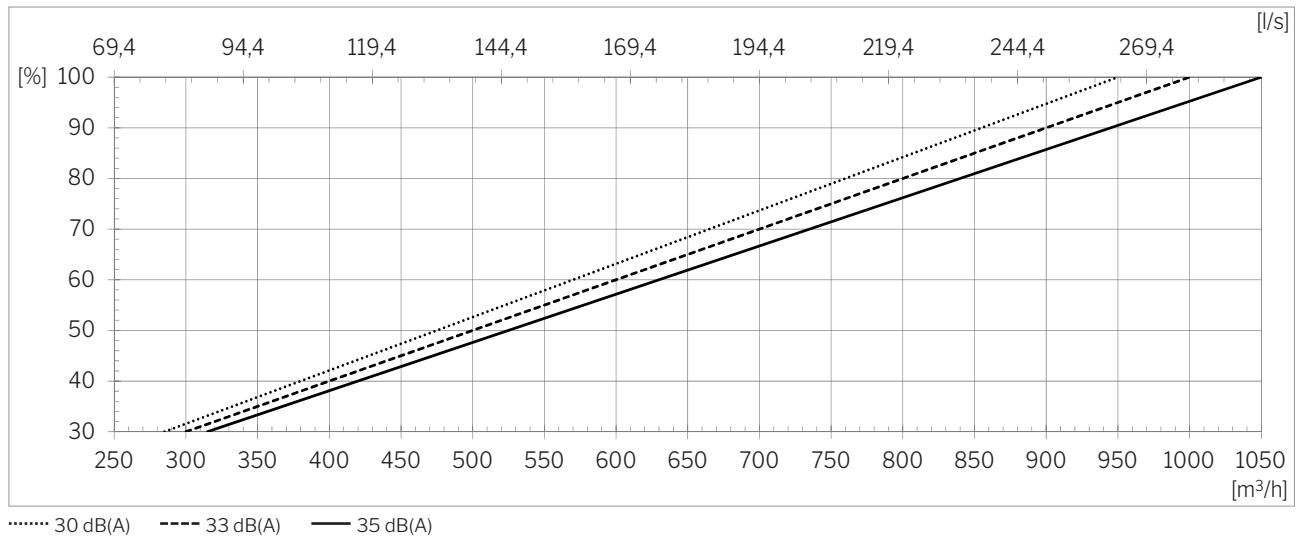
² The throw was measured with a 2 °C subcooled supply air. The setting is adaptable, see page 5.

³ Horizontal supply/exhaust using Airmaster Boomerain® Ø315 or with Ø400 mm wall grilles.

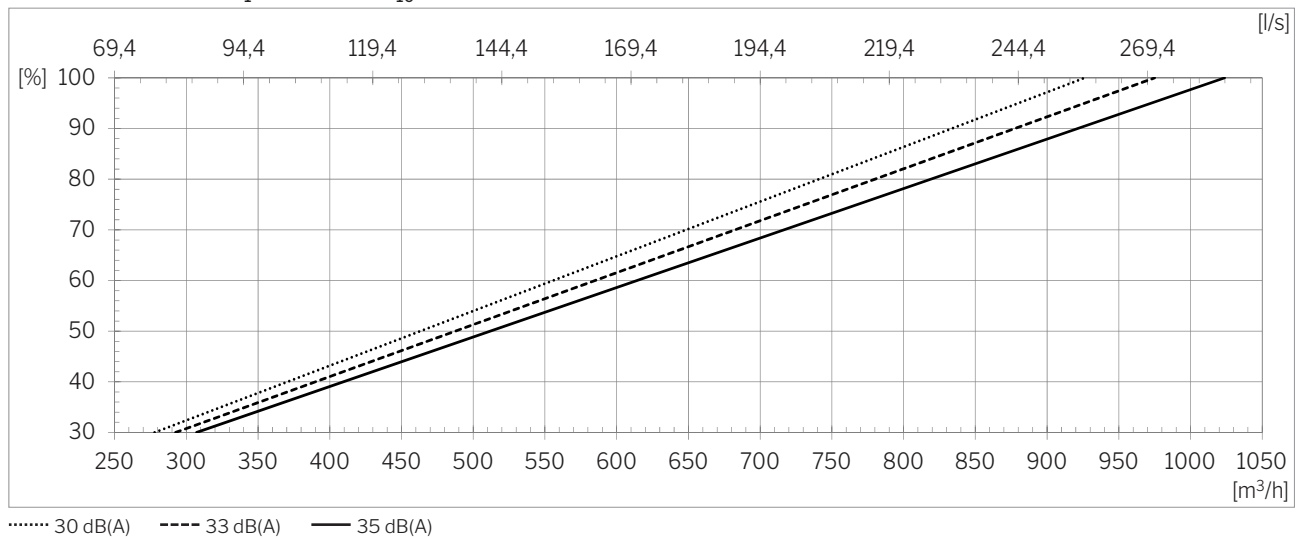
⁴ The supply voltage can be limited to a single-phase, connected to L1. Only for air handling units without electric heating surface or only with electric comfort heating surface.

⁵ Heat output for maximum capacity at supply/exhaust temperature 60/40 °C and a liquid flow of 112 l/h.

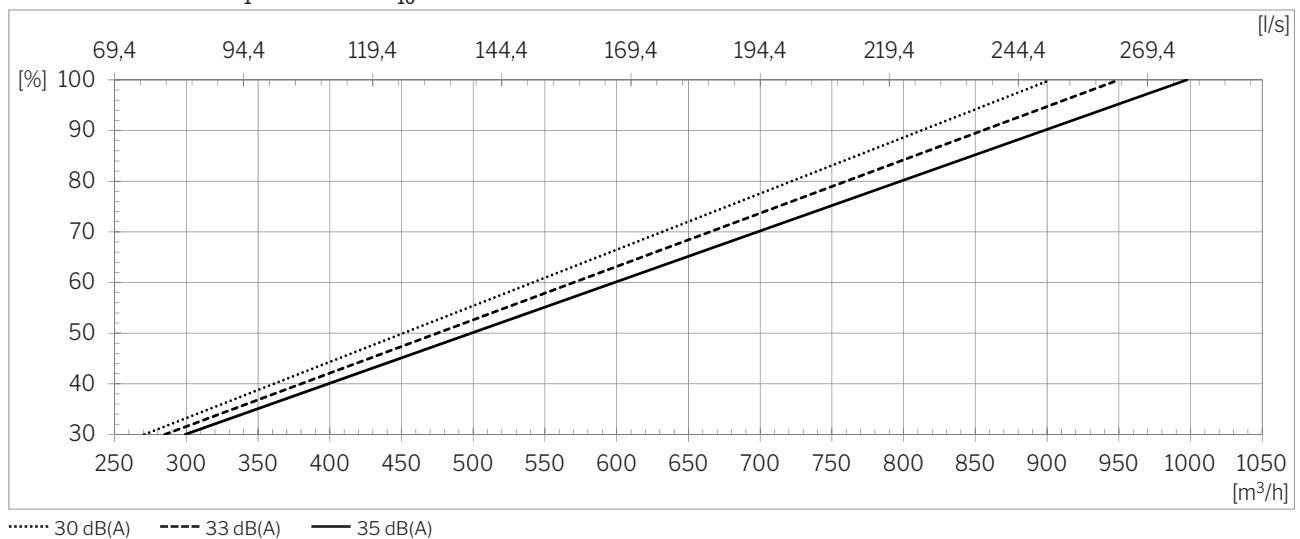
Capacity with ePM₁₀ 50% / ePM₁₀ 50% filters⁶



Capacity with ePM₁ 55% / ePM₁₀ 50% filters⁶

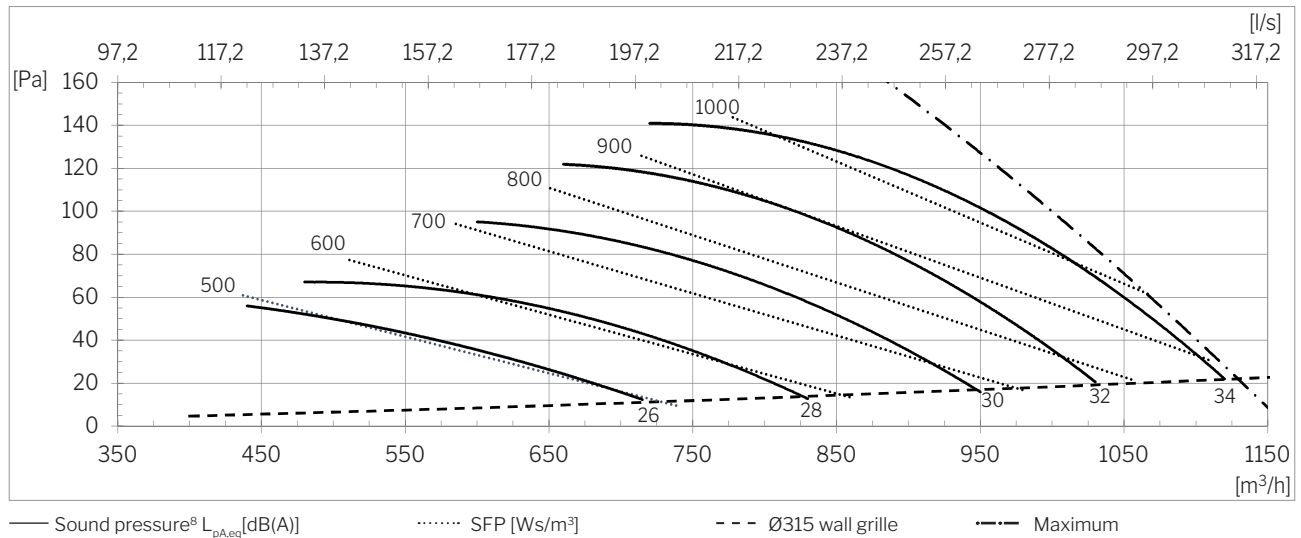


Capacity with ePM₁ 80% / ePM₁₀ 50% filters⁶

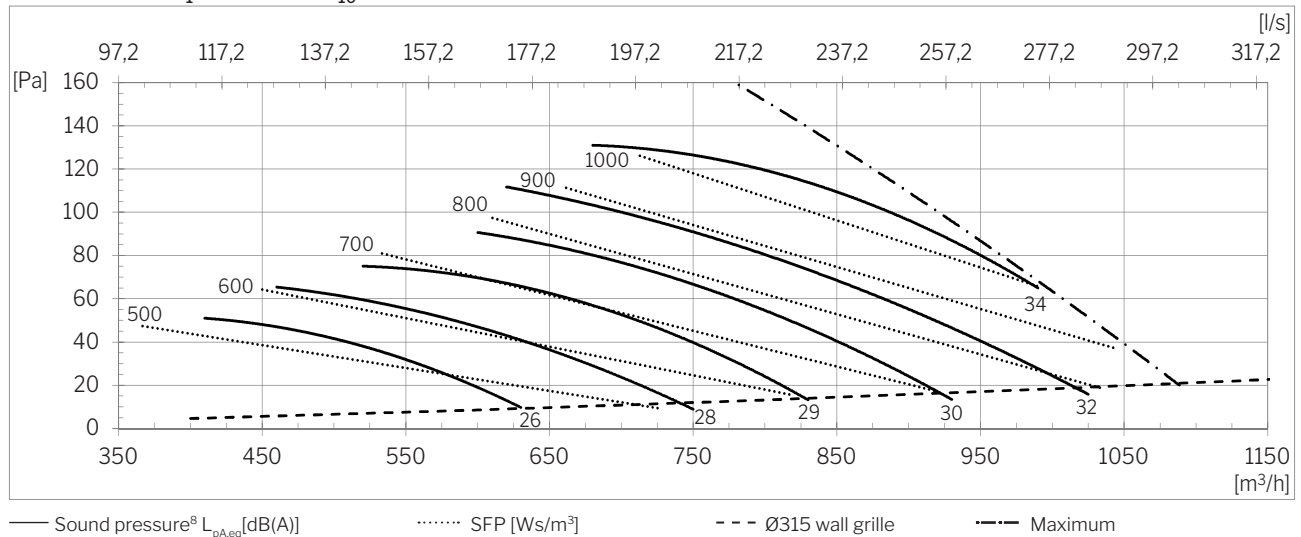


⁶ All measurements were performed with an AM 1000 HH TT in normal operating mode in a standard installation, using the wall grilles Ø315 recommended by Airmaster with room attenuation of 9 dB.

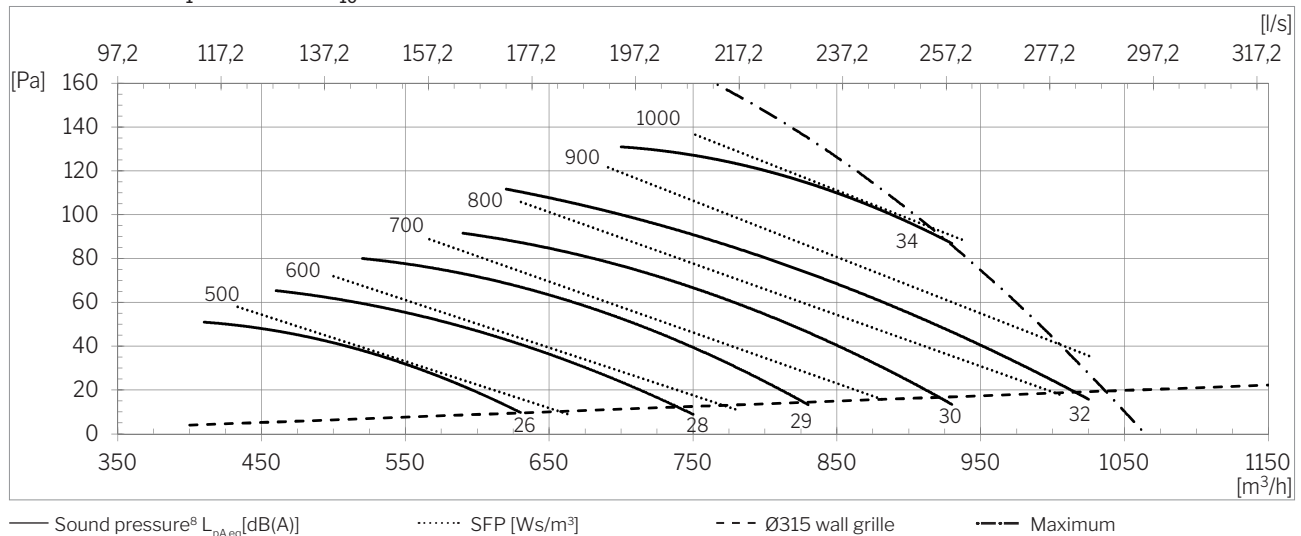
SFP with ePM₁₀ 50% / ePM₁₀ 50% filters⁷



SFP with ePM₁ 55% / ePM₁₀ 50% filters⁷



SFP with ePM₁ 80% / ePM₁₀ 50% filters⁷



⁷ All measurements were performed with an AM 1000 HH TT in normal operating mode in a standard installation, using the wall grilles Ø315 recommended by Airmaster with room attenuation of 9 dB.

⁸ Sound pressure level $L_{pA,eq}$ was measured at a height of 1.2 m with a horizontal clearance from the unit of 1 m at a room attenuation of 9 dB.

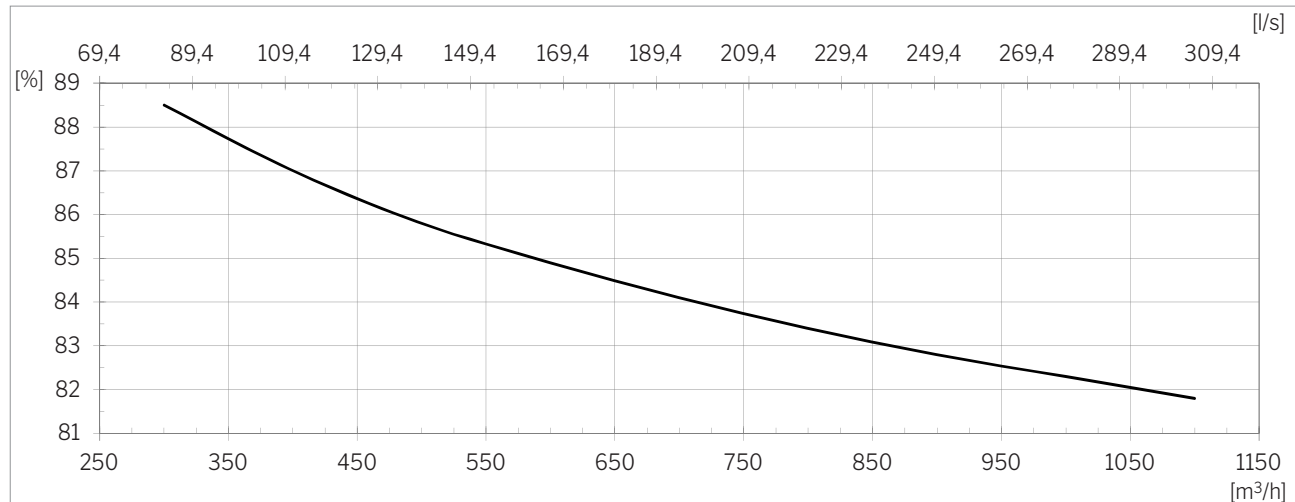
Sound power level, LWA [dB(A)], acc. ISO 9614-1

Data is for the entire unit (including top) at a flow of 950 m³/h with ePM₁₀ 50% / ePM₁₀ 50% filters and Ø315 wall grille. A simplified calculation model that assumes a point source may result in an over-estimation of the sound pressure for AM 1000, especially if absorbent surfaces are located close to the unit.

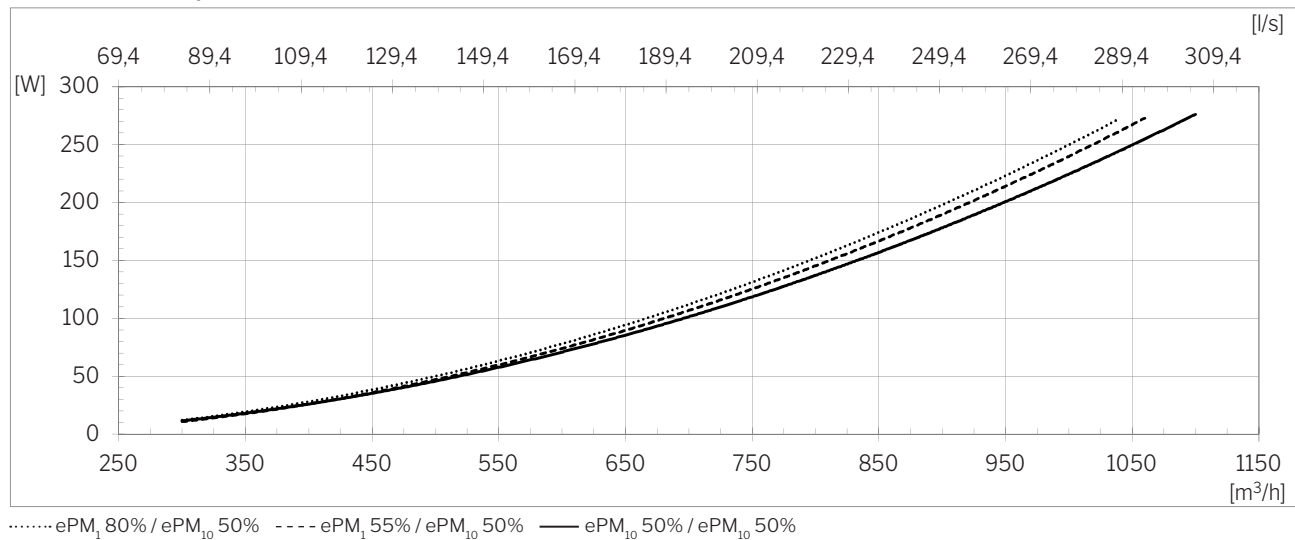
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000	Total
L _{WA} [dB(A)]	31,2	38,3	38,2	36,7	31,6	23,4	14,1	7,7	43,2

Temperature efficiency, acc. to EN 308

EN 308 conditions: Balanced operation; Room air: 25 °C, 28 % RH; Outdoor air: 5 °C, 50 % RH.

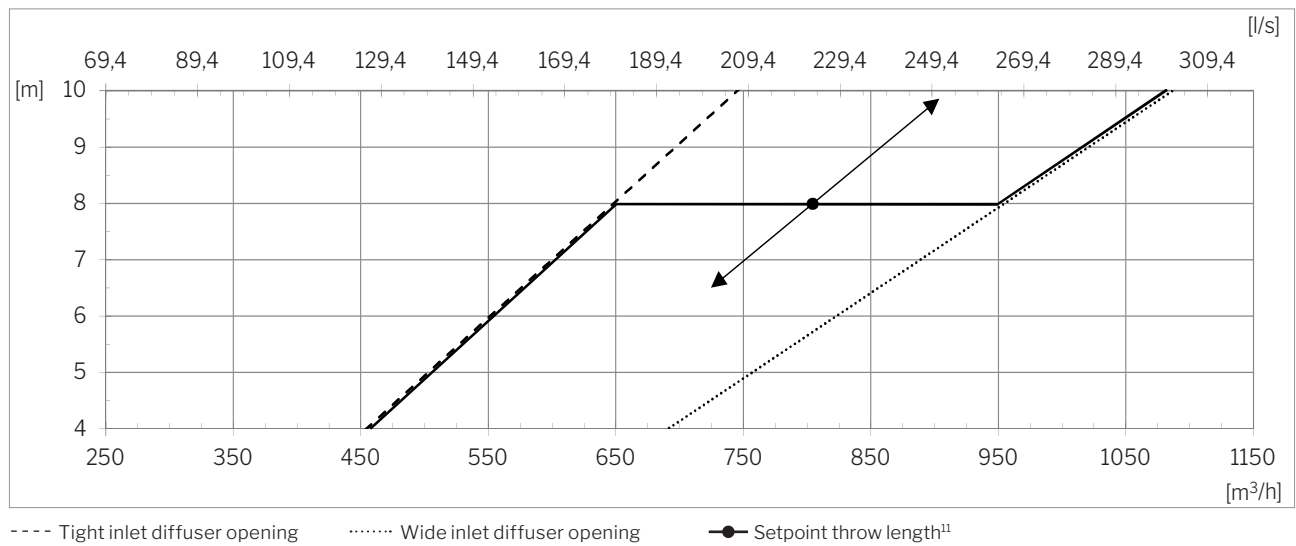


Power consumption⁹

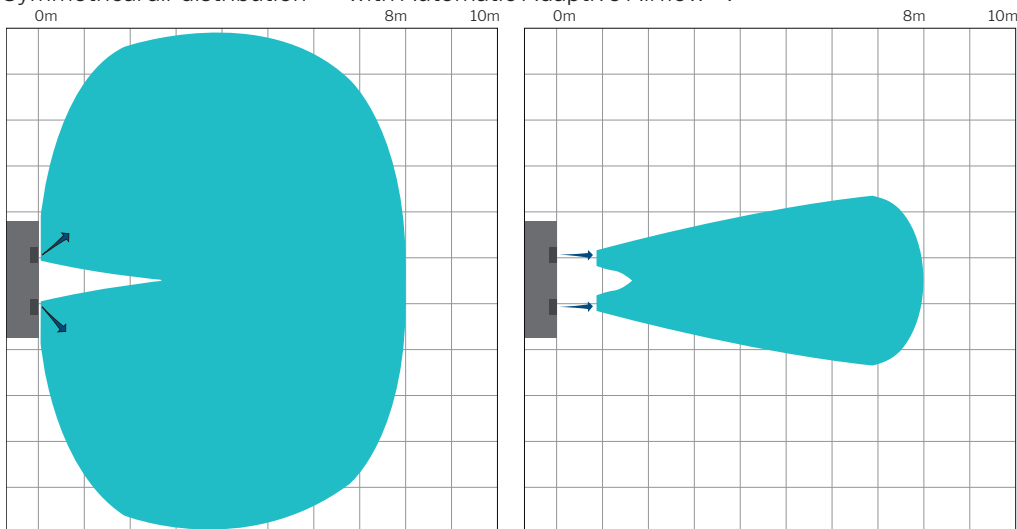


⁹ All measurements were performed with an AM 1000 HH TT in normal operating mode in a standard installation, using the wall grilles Ø315 recommended by Airmaster with room attenuation of 9 dB.

Throw (0,2 m/s)¹⁰



Symmetrical air distribution^{12, 13} with Automatic Adaptive Airflow™.



¹⁰ The throw is measured with 2°C subcooled supply air.

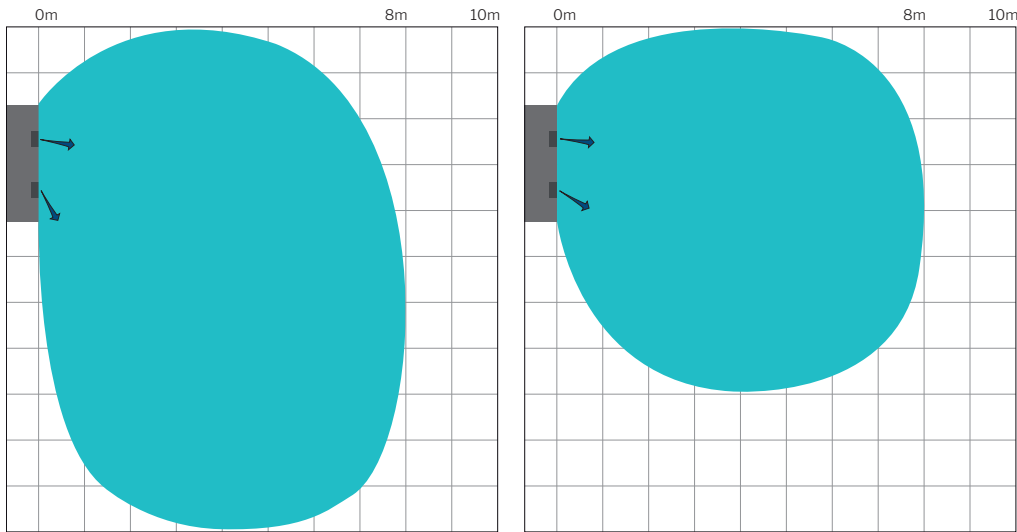
¹¹ Set point for throw length can be adjusted using a PC with "Airlinq® Service Tool" installed.

¹² Image on the left: Maximum airflow / inlet diffuser completely open.

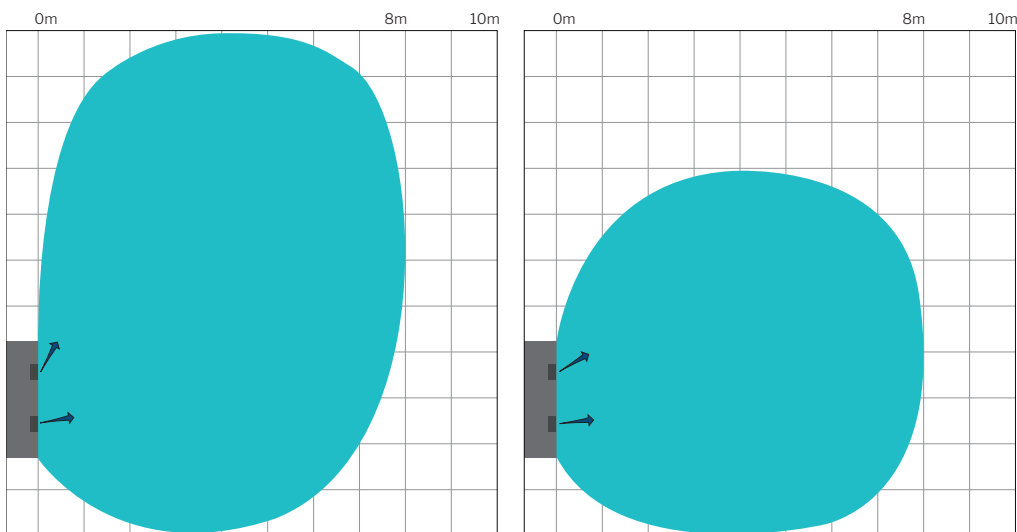
¹³ Image on the right: Low airflow / inlet diffuser completely tightened.

Throw (0,2 m/s)¹⁴:

Asymmetrical air distribution^{15 16} with Automatic Adaptive Airflow™ and left facing inlet air grilles.



Asymmetrical air distribution^{15 16} with Automatic Adaptive Airflow™ and right facing inlet air grilles.



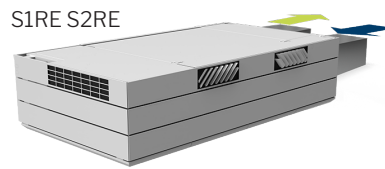
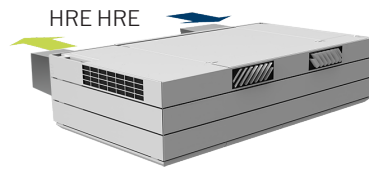
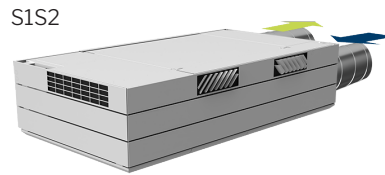
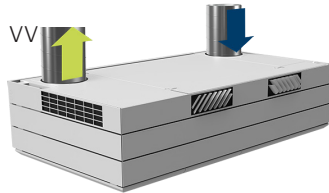
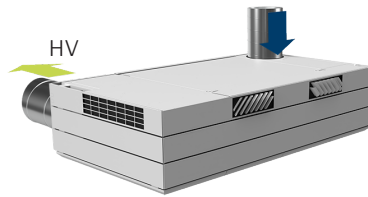
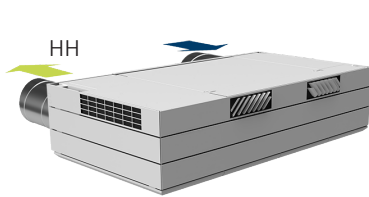
¹⁴ The throw is measured with 2°C subcooled inlet.

¹⁵ Image on the left: Maximum airflow / inlet diffuser completely open.

¹⁶ Image on the right: Low airflow / inlet diffuser completely tightened.

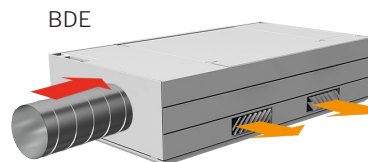
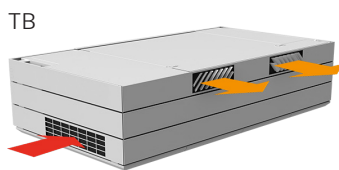
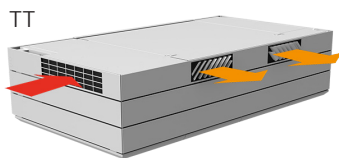
Version overview

Exhaust and supply position

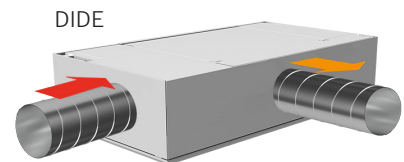


- H:** Horizontal
- V:** Vertical
- S1:** Side (towards the rear)
- S2:** Side (towards the front)
- HRE:** Horizontal - Rectangular
- S1RE:** Side-Rectangular (towards the rear)
- S2RE:** Side-Rectangular (towards the front)

Inlet and extract position



- T:** Top
- B:** Bottom
- DI:** Ducted Inlet
- DE:** Ducted Extract



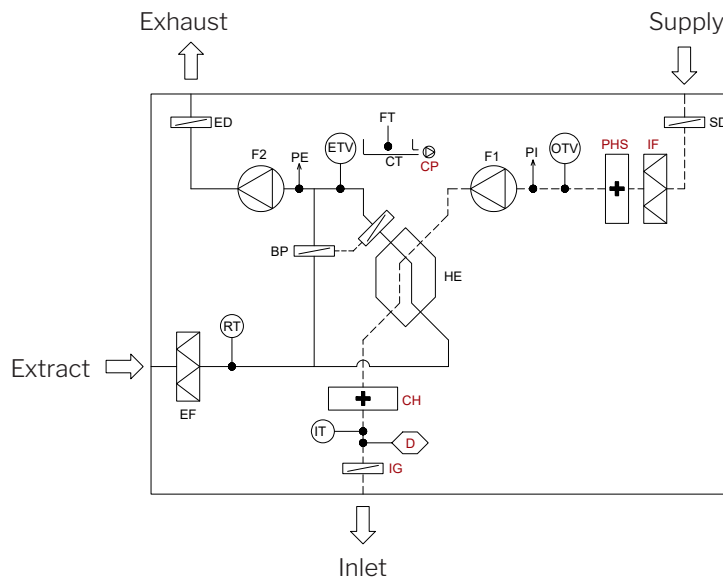
Standards and options

Counterflow heat exchanger (aluminum)	x
Enthalpy counterflow heat exchanger (polymer membrane)	o
Combination counterflow heat exchanger (polymer membrane)	o
Bypass damper	x
Supply damper (motor-controlled)	x
Exhaust damper (motor-controlled)	x
Capacitive return for motorized exhaust and supply air dampers	•
Automatic Adaptive Airflow™	•
Electric preheating surface	•
Electric comfort heating surface	•
Water comfort heating surface	•
Condensate pump	•
CO ₂ sensor (integrated)	•
TVOC (integrated)	•
CO ₂ -/TVOC sensor (integrated)	•
PIR/motion sensor (integrated)	•
CO ₂ sensor (wall mounted)	•

PIR/motion sensor (wall mounted)	•
Smoke detector ¹⁷	•
Hygostat (wall mounted)	o
Energy meter single-phase or three-phase	•
Outdoor air filter ePM ₁₀ 50%	•
Outdoor air filter ePM ₁ 55%	•
Outdoor air filter ePM ₁ 80%	o
Extract air filter ePM ₁₀ 50%	x
Wall-/ceiling bracket	x
Control panel, Airlinq® Viva	•
Control panel, Airlinq® Orbit	•
Airmaster Airlinq® Online	•
Airmaster Airlinq® Online API	•
Airlinq® BMS	•
MODBUS® RTU RS485 module	•
BACnet™ MS/TP module	•
BACnet™ /IP module	•
LON® module	o
KNX® module	o

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

Schematic sketch



Component designation

BP	Bypass damper (motor-controlled)	ETV	Exhaust temperature sensor	OTV	Outdoor air temperature sensor
CH	Electrical comfort heating surface (option)	FT	Float	PE	Flow meter, extract air
CP	Condensate pump (option)	F1	Outdoor air fan	PHS	Electric preheating surface (option)
CT	Condensate tray	HE	Counterflow heat exchanger	PI	Flow meter, supply air
D	Smoke detector (option)	IF	Outdoor air filter (option)	RT	Room temperature sensor
ED	Exhaust damper (motor-controlled)	IG	Adaptive Airflow™ (option)	OD	Supply damper (motor-controlled)
EF	Extract air filter	IT	Supply air temperature sensor		

¹⁷ The unit's height is increased to 600 mm if the optional built-in smoke detector is chosen. See dimension drawing.