

AIR CURTAIN MODEL ACM

COMFORT DOOR AIR CURTAIN

Description

The newest generation of KBE ACM air curtains are not only decorative but the ideal solution to maintain a comfortable interior climate in commercial and commons spaces that require keeping their doors open. The ACM air curtain has a decorative and compact design which is suitable for interiors with high appearance standards such as shopping malls shops, boutiques, restaurants, banks, hotel lobbies & buildings receptions. An air curtain is a device that creates an invisible air barrier to separate in an efficient manner two different environments preventing heat transfer and repelling flying insects. The use of air curtains can save high cooling costs in air-conditioned spaces.

Standard Features:

- *The ACM air curtains are made of steel casing. They are recommended to be installed for heights up to **3.5m** and are available in lengths from **1.0m** to **2.5m**.
- *Fit for Horizontal application only.
- *Operated by German made Centrifugal fans driven by an external rotor motor and low noise level- 3-speed selector.
- *Each Air curtain has an adjustable double outlet vane for optimum air flow setting.
- *Completed with EU Filter (Standard).
- *ACM standard color is RAL9010.

Controllers:

- A wall mounted Base controller with basic functions (Standard).
- A technologically advanced Ditronic Touch controller with a touch display and a wide range of advanced functions, including connection to superior control system (BMS or Modbus).

Types:

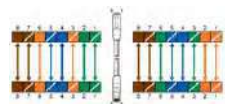
- Air Only (A) as a standard construction.
- Water coil heated Air (ADV-W) with heater connection can be either on Left (L) or Right (P) side - from front side view.
- Electric heated Air (ADV-E).

BASE CONTROL:

- *The Base Control is a basic wall mounted controller used for air curtains with the internal BASE regulator applicable for type A (Air only). ADV-E (Electric Heated Air) & ADV-W (Water Coil Heated Air) use Ditronic Controllers.
- *The controllers are intended for basic environment without humidity.
- *The Base Control is connected to the air curtain control board through a RJ45 Cable.
- *The Base Control is made of ABS plastic material with 80x80x25mm dimension.
- *The BASE regulator permits to control 2 air curtains based on Master (superior unit) and slave (inferior unit) sequence control from a single controller.
- * The Base regulator has 3 methods of controls:
 - Base Control
 - ModBus
 - Slave



BASE Control



RJ45 cable

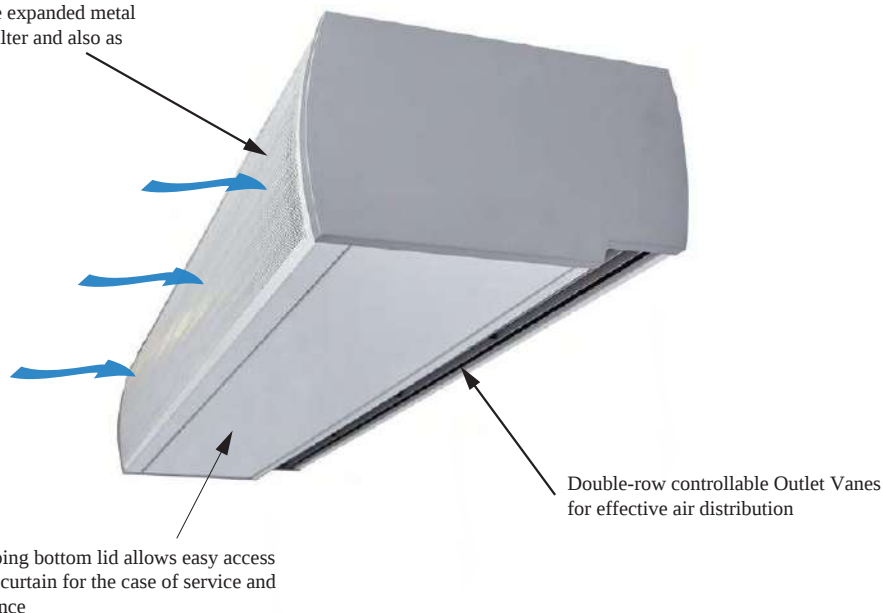


Control board
(inside the air curtain)

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Stylish suction grid resembling the expanded metal of fine structure operates as a prefilter and also as an inspection door. Unit is equipped with EU prefilter



OPTIONS



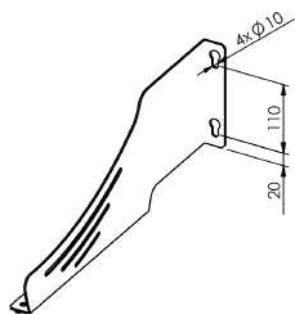
Room thermostat: 230V

- wall mounting
- basic version, with a switch, digital or industry with IP54



Communication cable PK 8/x

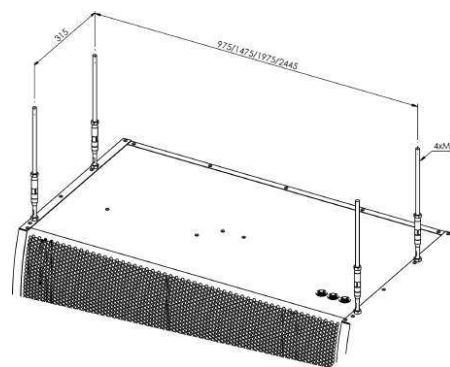
- connecting communication cable between the air curtain and the controller
- available in lengths from 1m up to 20m



WM-ACM: Wall Mounting ACM



Ditronic controller touch screen, suitable for local control, BMS control system or Modbus compatibility.

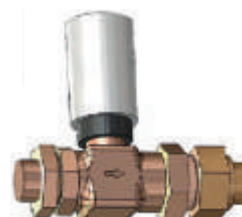


CM: Ceiling Mounting



Door contact: 24 V

- DKM - mechanical door contact
- DKMG - magnetic door contact



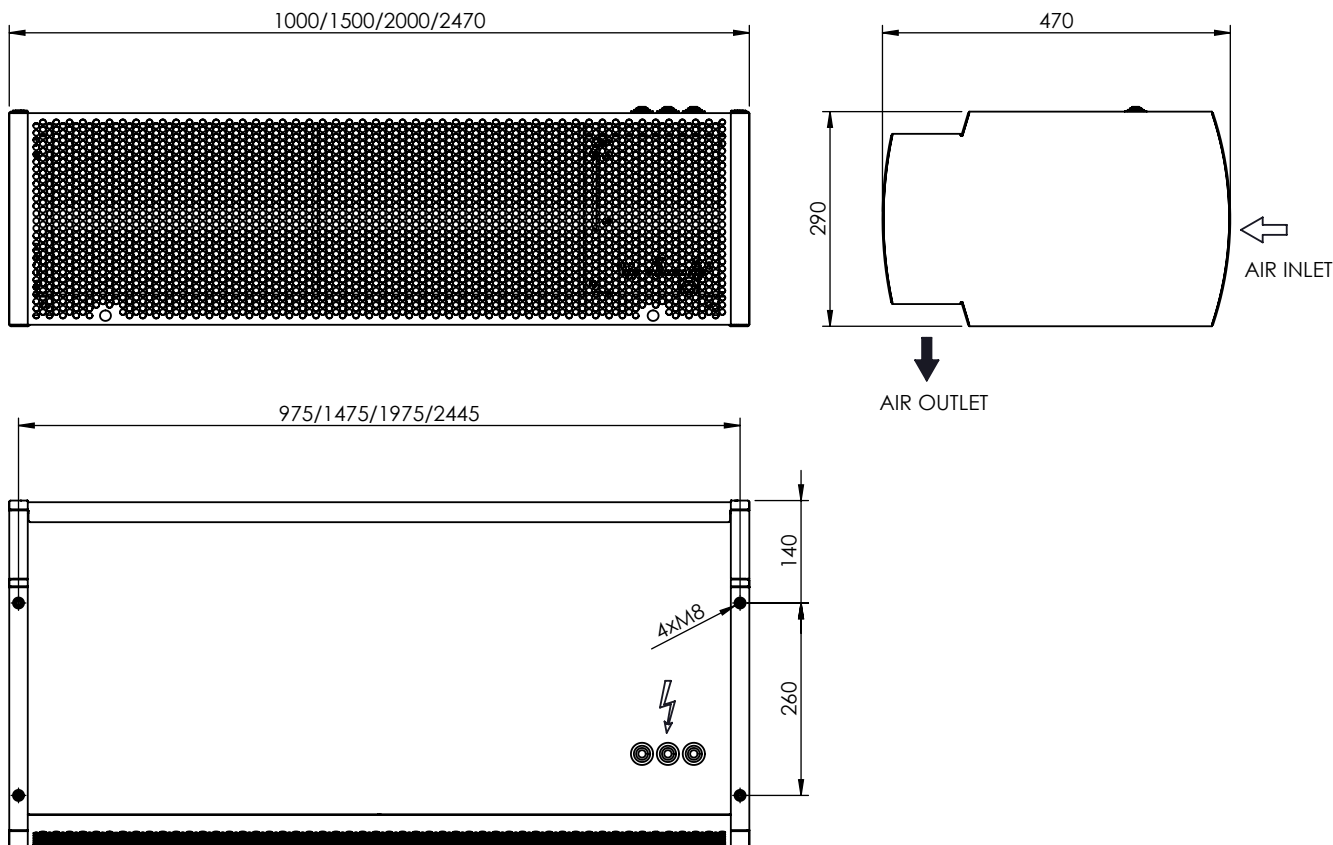
Thermostatic valve.

AIR CURTAIN

MODEL ACM

COMFORT DOOR AIR CURTAIN

Dimensions



Technical Data

Model ACM (Air Only*)	AirFlow	Fan Power	Fan Power	Noise Level	Weight	Protection
	m3/h	Watt at 230V/50Hz	Watt at 230V/60Hz	dB(A) at 3m	Kg	degree
1000	2000	580	600	60	38	IP20
1500	3075	870	900	61	51	IP20
2000	4175	1160	1200	62	65	IP20
2500	5250	1450	1500	62	78	IP20
	Recommended Max mounting Height 3.5m (**)					

Notes:

(*) For Electric Heated Air (E) or Water coil heated Air (W) Dimensions & Data are available on next table.

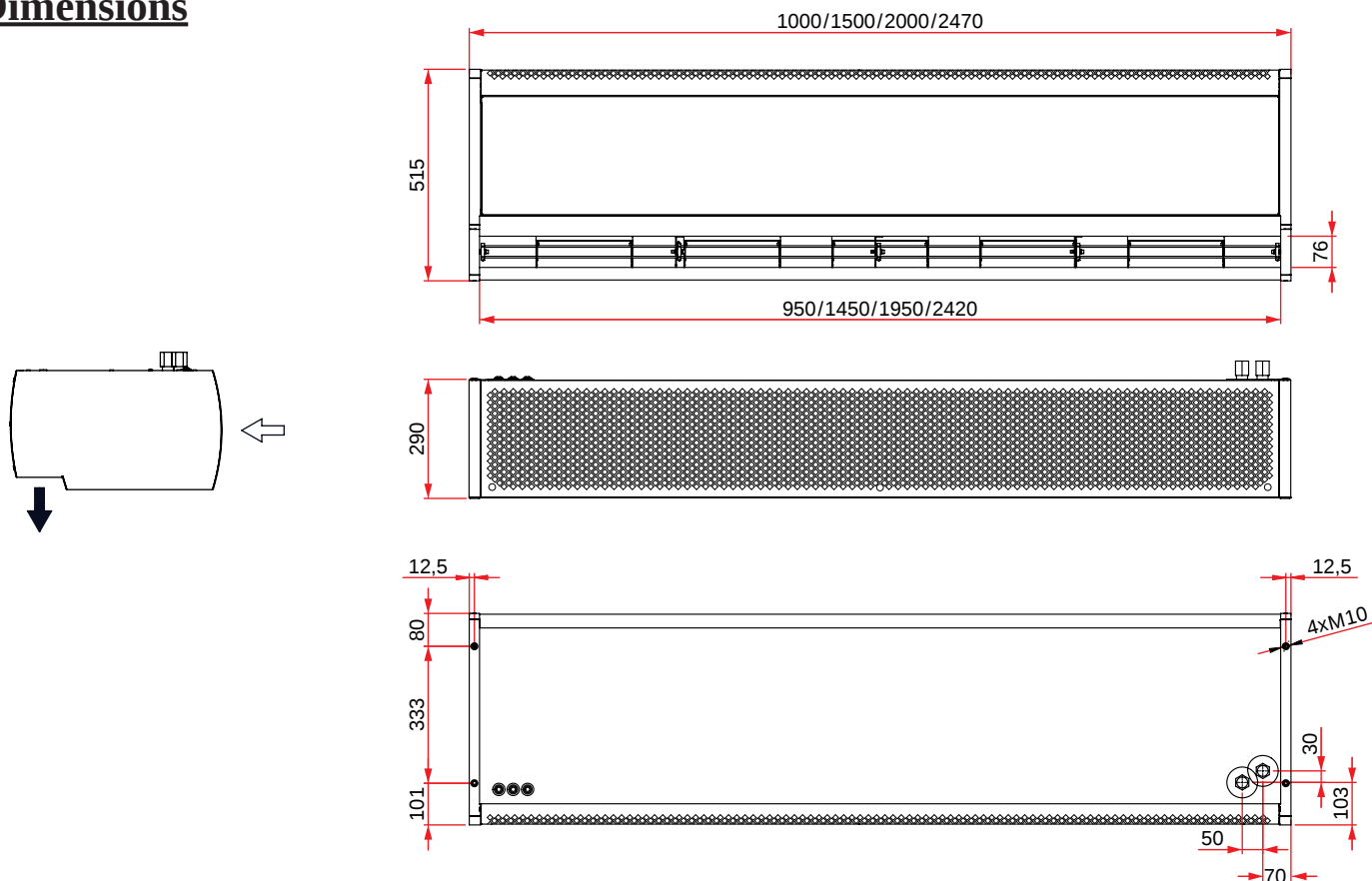
(**) The maximum height of installation depends on site conditions. Please contact our engineers for further questions.

AIR CURTAIN

MODEL ACM-ADV

COMFORT DOOR AIR CURTAIN

Dimensions



Technical Data

Model ACM ADV-W & ADV-E	1000 ADV -W or E	1500 ADV -W or E	2000 ADV -W or E	2500 ADV -W or E
Air volume [m ³ /h]	2100	3200	4300	5400
Hot-water coil W (water 80/60°C, ti=18°C)				
Capacity [kW]	13,5	22,5	32,3	40,9
Pressure loss [kPa]	7	5,1	12,6	9,7
Flow volume rate [m ³ /h]	0,58	0,94	1,37	1,73
Hot-water coil W (water 60/40°C, ti=18°C)				
Capacity [kW]	7,5	12,6	18,6	23,4
Pressure loss [kPa]	2,6	1,9	5	3,8
Flow volume rate [m ³ /h]	0,29	0,54	0,79	0,97
Connection [DN]	20	20	20	20
Electric heater				
capacity alt 1 Max. [kW]	5	7,5	12,5	15
capacity alt 2 Max. [kW]	7,5	10	15	17,5
capacity alt 3 Max. [kW]	-	12,5	17,5	20
capacity alt 4 Max. [kW]	-	15	20	22,5
power supply [V]	3x 230	3x 230	3x 230	3x 230
Fan				
fan power input [W]	540	810	1080	1350
fan current [A]	2,4	3,6	4,8	6
fan voltage [V]	230	230	230	230
Controller	Ditronic Touch (Only)			
Protection degree	IP20	IP20	IP20	IP20
Noise level* dB (A)	55	58	61	63
Weight [kg]	44	67	85	110

* Acoustic pressure Lp(A) measurement taken at a distance of 3 m from the unit source

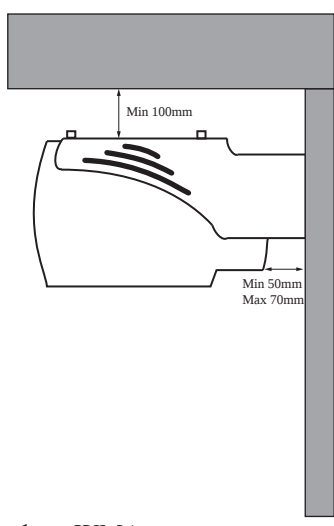
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Mounting Details

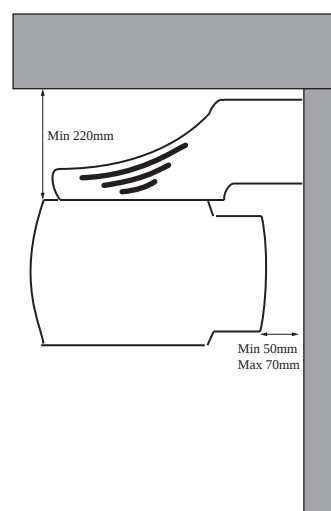
Wall Mounting



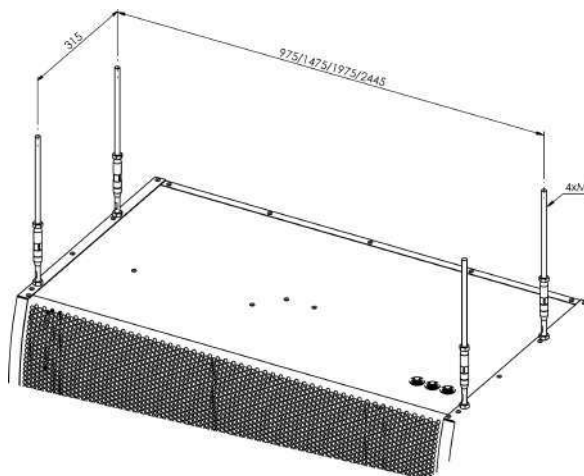
Standard Brackets-WMA



Reverse Brackets-WMB



Ceiling Mounting



Ordering Information

