

AIR CURTAIN MODEL ACL

FOR COMMERCIAL & INDUSTRIAL DOORS

Description:

The newest generation of KBE ACL air curtains are not only decorative but the ideal solution for commercial and common spaces that require keeping their doors open.

The ACL air curtain is also fit for industrial doors.

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 ACL air curtains are made of steel casing. They are recommended to be installed for heights up to **4.5m** 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).
- *ACL 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.

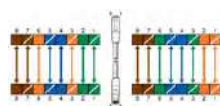
*The Base Control is made of ABS plastic material with 80x80x25mm dimension.

*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
 - Master and Slave



BASE Control

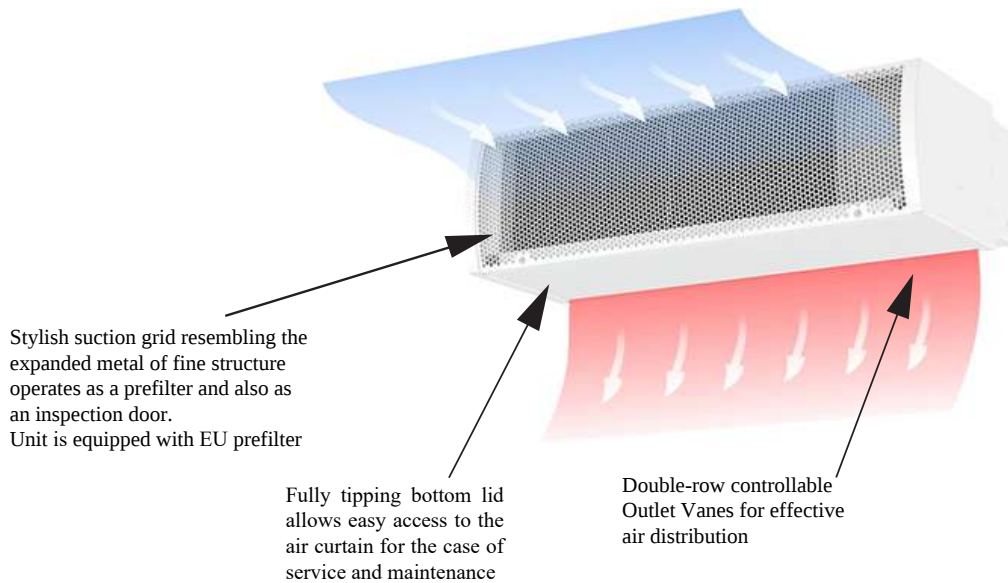


RJ45 cable



Control Board
(inside the air curtain)

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OPTIONS



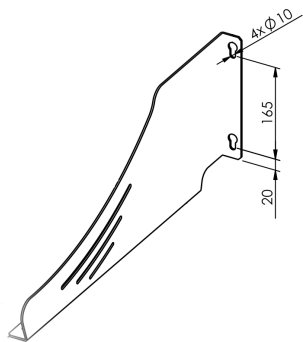
Room thermostat: 230V

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



Communication cable PK 8/x

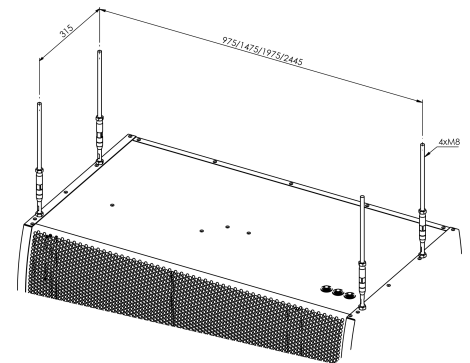
- connecting communication cable between the air curtain and the controller
- available in lengths from 1m up to 20m



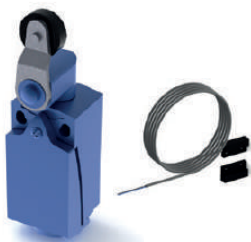
WM-ACL: Wall Mounting ACL



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

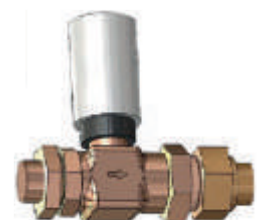


CM: Ceiling Mounting



Door contact: 24 V

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



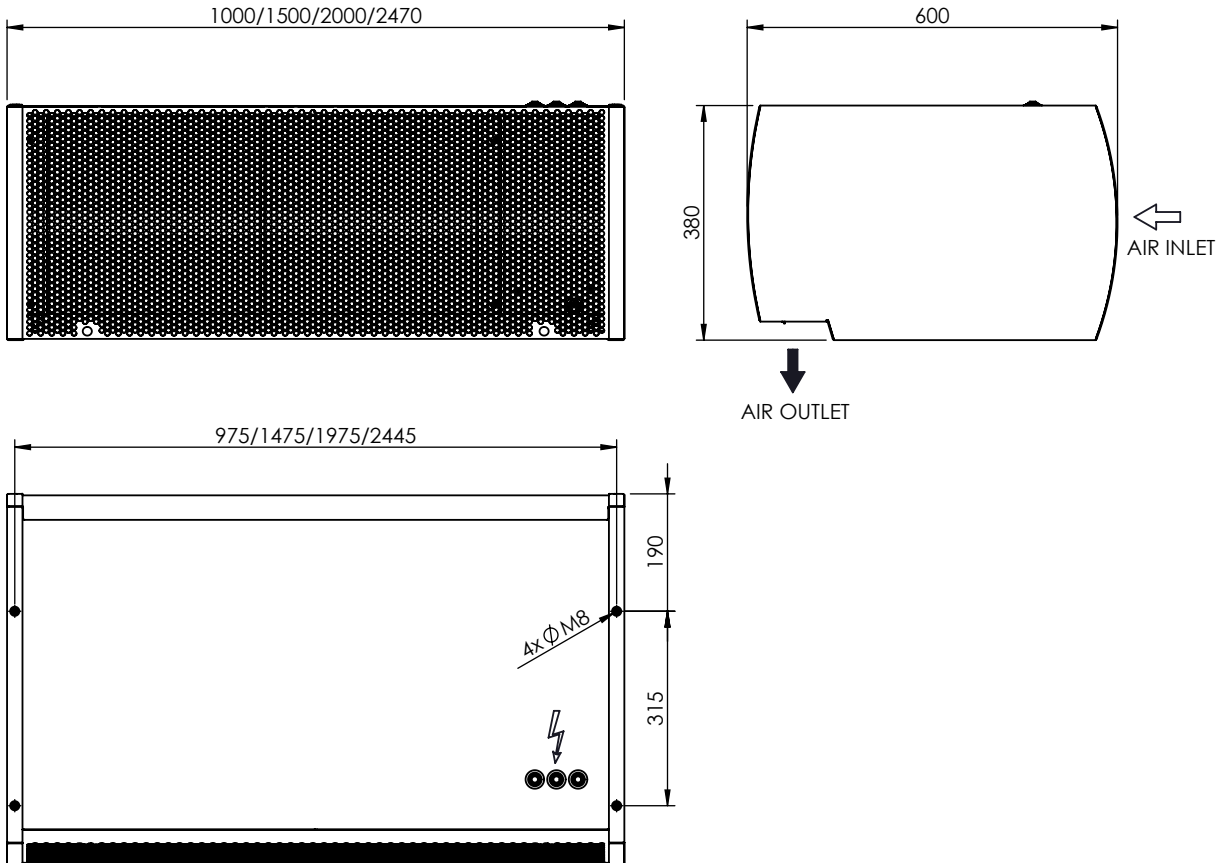
Thermostatic valve.

AIR CURTAIN

MODEL ACL

FOR COMMERCIAL & INDUSTRIAL DOORS

Dimensions



Technical Data

Model ACL (Air Only*)	AirFlow	Fan Power	Fan Power	Noise Level	Weight	Protection
	m3/h	kW at 230V/50Hz	kW at 230V/60Hz	dB(A) at 3m	Kg	degree
1000	3000	1.16	1.2	66	60	IP20
1500	4650	1.45	1.5	66	71	IP20
2000	6275	2.03	2.1	66	96	IP20
2500	7900	2.61	2.7	65	110	IP20
Recommended Max mounting Height 4.5m (**)						

Notes:

(*) For Electric Heated Air (E) or Water coil heated Air (W) Dimensions & Data are available upon request.

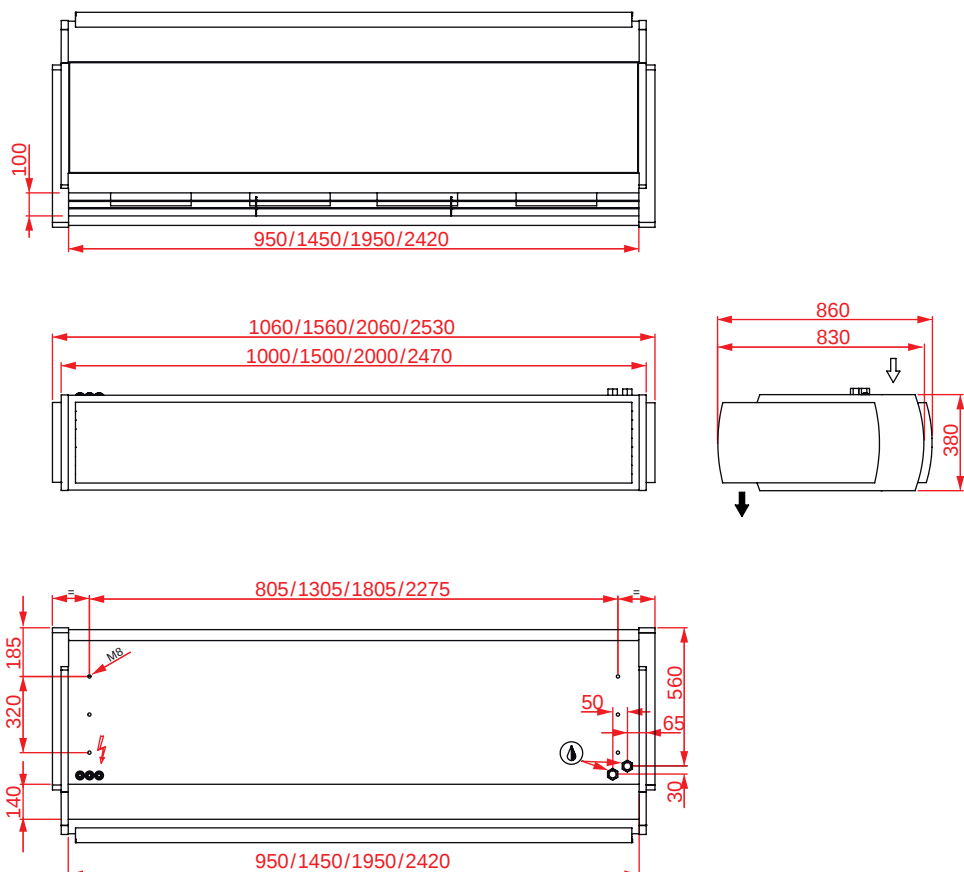
(**) The maximum height of installation depends on site conditions. Please contact our engineers for further questions.

AIR CURTAIN

MODEL ACL-ADV

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Dimensions



Technical Data

Model ACL 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]	3880	5250	8150	9400
Hot-water coil W (water 80/60°C, ti=18°C)				
Capacity [kW]	20.5	33.6	50	61.2
Pressure loss [kPa]	3.8	8.1	5.9	6.6
Flow volume rate [m ³ /h]	0.86	1.44	2.12	2.63
Hot-water coil W (water 60/40°C, ti=18°C)				
Capacity [kW]	11	18.8	27.7	34.2
Pressure loss [kPa]	1.3	3.1	2.2	2.5
Flow volume rate [m ³ /h]	0,47	0,79	1.19	1.44
Connection [DN]	20	20	25	32
Electric heater				
capacity alt 1 Max. [kW]	7.5	10	15	17.5
capacity alt 2 Max. [kW]	10	12.5	20	22.5
capacity alt 3 Max. [kW]	-	15	25	27.5
capacity alt 4 Max. [kW]	-	17.5	30	30
power supply [V]	400	400	400	400
Fan				
fan power input [W]	1160	1450	2320	2610
fan current [A]	5.2	6.5	10.3	11.6
fan voltage [V]	230	230	230	230
Controller	Ditronic Touch (Only)			
Protection degree	IP20	IP20	IP20	IP20
Noise level* dB (A)	61	63	65	66
Weight [kg]	71	98	133	163

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

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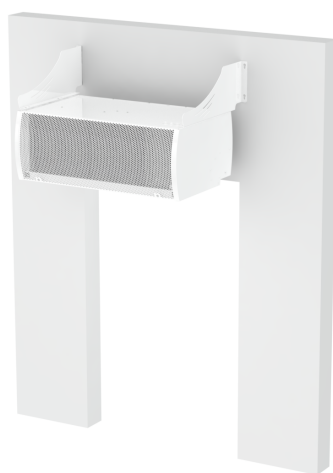
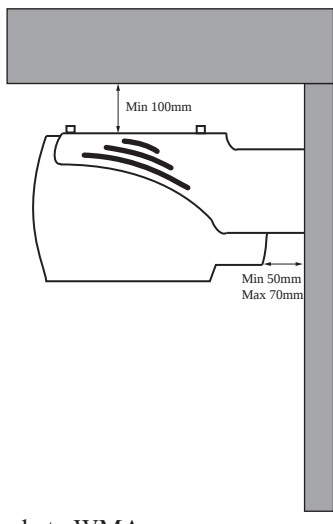
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Mounting Details

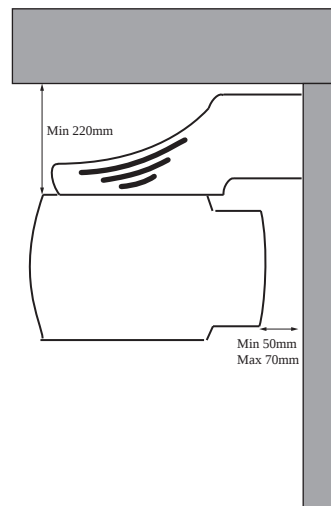
Wall Mounting



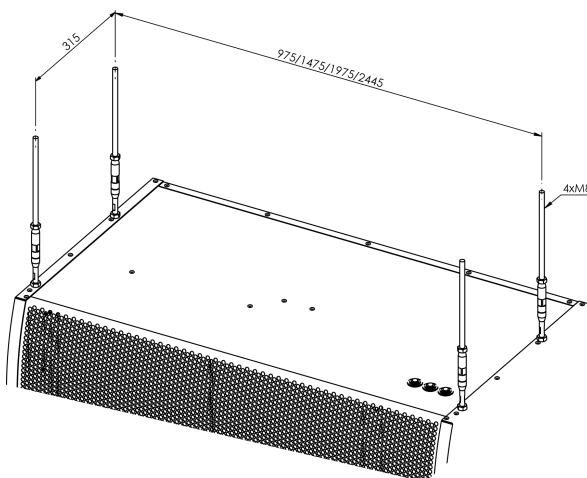
Standard Brackets-WMA



Reverse Brackets-WMB



Ceiling Mounting



Ordering Information

