



# Air Curtains

2013





## Description

The new and attractive generation of Airtècnics air curtains is the ideal solution to maintain a comfortable interior climate in commercial outlets and public buildings that need to keep their doors open.

Airtècnics air curtains create an air stream layer over the doorway and act as an invisible barrier which efficiently divides the inside environment from the outside one. Therefore, it substantially reduces heating and cooling costs up to 80%, while increasing employees and clients comfort.

For shops, Airtècnics air curtains allow a clear view of the inside of the shop, welcoming the client to enter easily and freely. The end result is

more customers and an increase in sales. Airtècnics air curtains are a protection from the cold and heat, repel gusts of wind and minimize dust, fumes, pollution and insects entering the building.

In order to obtain these advantages it's very important to choose the appropriate air curtain. Factors such as interior drop, strong winds, the door's location, stairs between floors, opposite doors, and the installation height have to be taken into consideration.

Our expert consultants with their extensive experience are at your disposal to help you choose.

## Advantages

### MAINTAINS

- Heating levels
- Refrigeration
- Air conditioning
- Comfort
- Clean atmosphere



### PROTECTS FROM

- Cold winter temperatures
- Hot summer temperatures
- Car fumes
- Dust in the air
- Pollution
- Bad smells and odours
- Insects

## Selection of an air curtain

To select an air curtain the following factors have to be kept in mind:

- The height of the installation measured from the discharge diffuser to the floor
- The width of the door
- The location of the building to determine the level of protection needed against weather conditions
- If the building has several doors in the same, different or opposite façade
- If the building has several storeys connected by escalators
- Pressure differences between the inside and outside of the building
- Door characteristics: if always open, if automatic door, manual door, revolving door, etc...
- Characteristics of the ventilation and air conditioning installation
- Voltage and electrical power availability
- Type of business, style and decoration of the premises

















## applications

Model	Kind	Recommended Installation Height (*)	Heating			Common Applications
			A	E	P	
Minibel		Up to 1.8 m	•	•		Kiosks, Fast Food and small sized shops. Restaurants and places with usually closed door or automatic door when low pedestrian flow.
Optima Recessed Optima		2.2 - 2.5 m	•	•	•	Small and medium sized premises. Restaurants, shops and places with a medium and high pedestrian flow. Creation of different environment zones. Protection against dust, fumes, pollutants and insects. False ceiling installations. Isolation and sealing of smoking areas.
Windbox, Dam Recessed Windbox WEC, REC (G only) Deco, Variwind Zen, Rund (M,G only) Windbox DX (M,G only) Duojet (M,G only) Rotowind (M,G only) Kool (A only) Invisair Compact (M/A only)	S M G	2.5 - 3 m 2.8 - 3.5 m 3.2 - 4 m	• • •	• • •	• • •	Medium and large sized premises with a high pedestrian flow. Protection against dust, fumes, pollutants and insects. Cold rooms. False ceiling installations. Isolation and sealing of smoking areas.
Triojet		2 - 3 m		•		Industrial doors for large cold rooms and freezers.
Windbox	L XL	4 - 5 m 6 - 11 m	• •	• •	• •	Medium and large sized premises with a high pedestrian flow. Industrial doors. Protection against dust, fumes, pollutants and insects. Cold rooms. False ceiling installations.
Max		5 - 6 m	•	•	•	Industrial doors. Loading dock. Vertical Installation to one side of the door or at each side of the door. Horizontal Installation.

(\*) The maximum height of installation depends on the conditions of the premises. Contact us to clear up your queries or doubts.

(A) Air Only, (E) Electrical Heating, (P) Water Coil Heating LPHW.



	<b>MINIBEL</b> <i>Economical for openings up to 1,8 m</i>	5		<b>WINDBOX L, XL</b> <i>High pressure for commercial and large industrial doors 4 - 11 m</i>	28-29
	<b>OPTIMA</b> <i>For commercial doors 2,2 - 2,5 m</i>	6		<b>INVISAIR</b> <i>Recessed installation in column or bulkhead for commercial doors 2,8 - 4 m</i>	30-31
	<b>RECESSED OPTIMA</b> <i>For commercial doors 2,2 - 2,5 m recessed installation in false ceiling</i>	7		<b>ROTOWIND</b> <i>Tailor made for revolving doors 2,8 - 4 m</i>	32-33
	<b>WINDBOX S,M,G</b> <i>High pressure for commercial and industrial doors 2,5 - 4 m</i>	8-9		<b>KOOL</b> <i>High velocity for cold store and freezer doors 2,5 - 4 m</i>	34
	<b>RECESSED WINDBOX</b> <i>High pressure for commercial doors recessed installation in false ceiling 2,5 - 4 m</i>	10-11		<b>TRIOJET SYSTEM</b> <i>Combination system with multijets large cold stores and freezers 2 - 3 m</i>	35
	<b>ZEN</b> <i>Customisable design with bespoke fascia panels for commercial doors 2,8 - 4 m</i>	12-13		<b>COMPACT</b> <i>High pressure and small dimensions for commercial and industrial 2,8 - 3,5 m</i>	36
	<b>RUND</b> <i>Decorative cylindrical for vertical or horizontal installation 2,8 - 4 m</i>	14-15		<b>VARIWIND</b> <i>Tailor made variable lenght VP or VW construction 2,5 - 4 m</i>	37
	<b>DECO</b> <i>Decorative with aluminium profiles for commercial doors 2,5 - 4 m</i>	16-17		<b>MAX</b> <i>Large industrial doors, vertical or horizontal installation 5 - 6 m</i>	38
	<b>DAM</b> <i>High pressure for commercial doors with front panel 2,5 - 4 m</i>	18-19		<b>POWER COEFFICIENTS</b> <i>Water heated air curtains at different water temperatures</i>	39
	<b>EC AIR CURTAINS</b> <i>Low consumption technology for commercial doors 3,2 - 4 m</i>	20-22		<b>CONTROL, ACCESSORIES SPECIAL OPTIONS</b> <i>Controllers and regulation Supports, valves, sensors, etc...</i>	40-41
	<b>DUOJET</b> <i>Double jet and high efficiency for commercial doors 2,8 - 4 m</i>	23		<b>REFERENCES, PARTNERS</b> <i>Brand names and clients European distributors map</i>	42
	<b>HEAT PUMP AIR CURTAINS</b> <i>Heating and cooling low consumption technology for commercial doors 2,8 - 4 m</i>	24-27		<b>INSTALLATION PICTURES</b> <i>Recessed, Vertical, Design, Industrial, etc...</i>	43



**Characteristics**



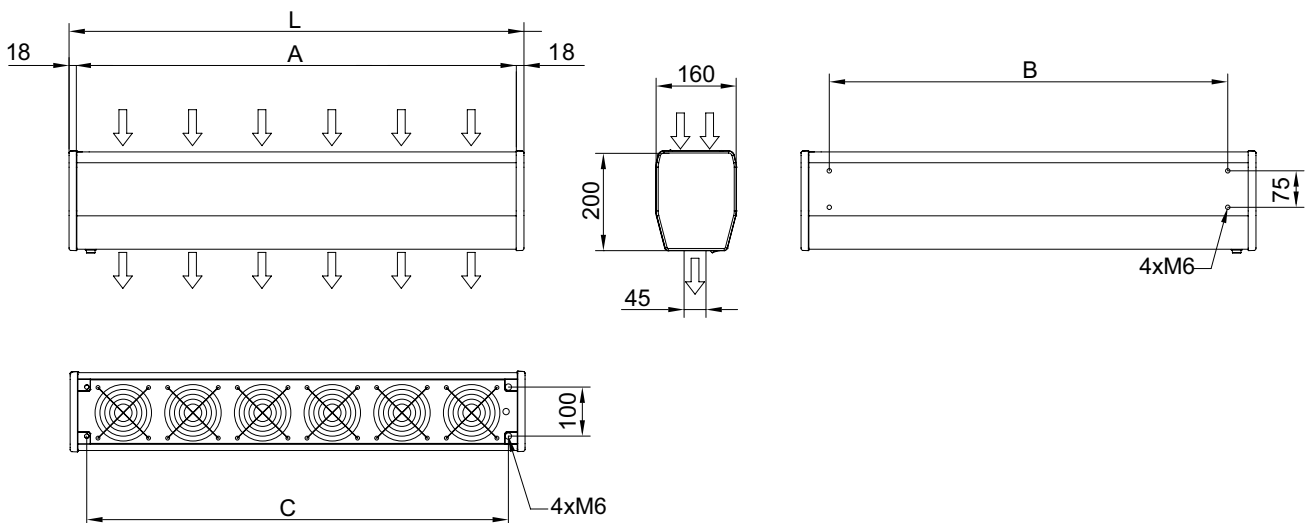
- Self-supporting casing construction made of galvanised plated steel, painted epoxy-polyester structural white colour RAL 9016.
- Low noise compact axial fans.
- "E" type with heating includes electrical shielded element. "A" type is without heating, air only.
- Linear blow-out jets with airfoil profiled anodized aluminium vanes.
- Integrated switch for ventilation and heating control.
- Cable connection 1,5m length, integrated.
- Wall support included.

**Specifications**

		MIN 600 A	MIN 600 E230	MIN 900 A	MIN 900 E230
Power (Fans)	W	112	112	168	168
Voltage	V	230~1	230~1	230~1	230~1
Current	A	0,52	0,52	0,78	0,78
Speed	rpm	2800	2800	2800	2800
Airflow Min./Máx.	m³/h	400	400	600	600
Power (Heating)	kW	-	2,5	-	3,2
Voltage	V	-	230~1	-	230~1
Current	A	-	10,8	-	13,9
Temperature Rise	°C	-	19	-	16
Weight	kg	9	10	12,5	13,5
Noise Level	dB(A)	47	47	48	48
Maximum Height (*)	m	1,8	1,8	1,8	1,8

(\*) Depending on installation conditions

**Dimensions**



	L	A	B	C
MIN 600	636	600	520	566
MIN 900	936	900	820	866



## Characteristics



- Self-supporting casing construction made of galvanised plated steel, painted epoxy-polyester structural white colour RAL 9016 as standard. Other colours are available on request.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- "P" type includes water heated coil. "E" type includes electrical shielded element, 2 power stages with power switches included. "A" type is without heating, air only.
- Linear blow-out jet with airfoil profiled anodised aluminium vents.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

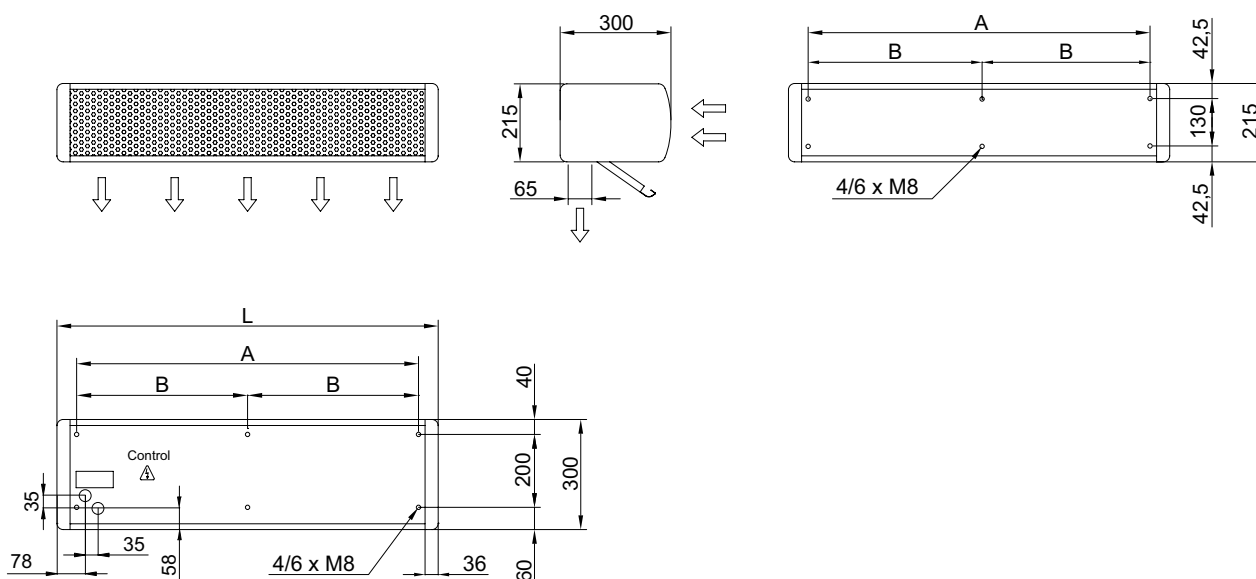
## Specifications

Model	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure Pa	Electrical Heating Capacity (*) kW	Electrical Heating Voltage V	Electrical Heating Current A	Power Fans 230V-50Hz W	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
OPT 1000 A	850/1350	-	-	-	-	-	40/87	0,23/0,42	41/50	17,5
OPT 1000 P	725/1150	8	5050	-	-	-	40/87	0,23/0,42	41/50	20,5
OPT 1000 E	850/1350	-	-	46	400Vx3	5,8/8,7	40/87	0,23/0,42	41/50	20,5
OPT 1000 E230	850/1350	-	-	3,8/5,6	230Vx1	16,5/24,5	40/87	0,23/0,42	41/50	20,5
OPT 1500 A	1250/2050	-	-	-	-	-	64/117	0,37/0,63	43/52	25,5
OPT 1500 P	1100/1750	12,6	5360	-	-	-	64/117	0,37/0,63	43/52	27,5
OPT 1500 E	1250/2050	-	-	6/9	400Vx3	8,7/13	64/117	0,37/0,63	43/52	27,5
OPT 1500 E230-6	1250/2050	-	-	3,8/5,6	230Vx1	16,5/24,5	64/117	0,37/0,63	43/52	27,5
OPT 1500 E230-9	1250/2050	-	-	6/9	230Vx1	26/39,1	64/117	0,37/0,63	43/52	27,5
OPT 2000 A	1700/2700	-	-	-	-	-	80/174	0,46/0,84	46/55	33
OPT 2000 P	1450/2300	16,7	5230	-	-	-	80/174	0,46/0,84	46/55	37,5
OPT 2000 E	1700/2700	-	-	5,6/11,3	400Vx3	8,1/16,3	80/174	0,46/0,84	46/55	42
OPT 2000 E230	1700/2700	-	-	5,6/11,3	230Vx1	24,5/49,1	80/174	0,46/0,84	46/55	42

Water heated pipes connection 1/2"

(\*) Under request other electrical heating capacities may be supplied

## Dimensions



	L	A	B
OPT 1000	1050	940	-
OPT 1500	1550	1440	-
OPT 2000	2050	1940	970



## Characteristics



- Self-supporting casing construction made of galvanised plated steel, ready to be installed recessed in a false ceiling.
- The inlet grille and the blow-out jet are integrated in a single aluminium frame, painted epoxy-polyester white colour RAL 9016.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- “P” type includes water heated coil. “E” type includes electrical shielded element, 2 power stages with power switches included. “A” type is without heating, air only.
- Control panel and infrared remote controller IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

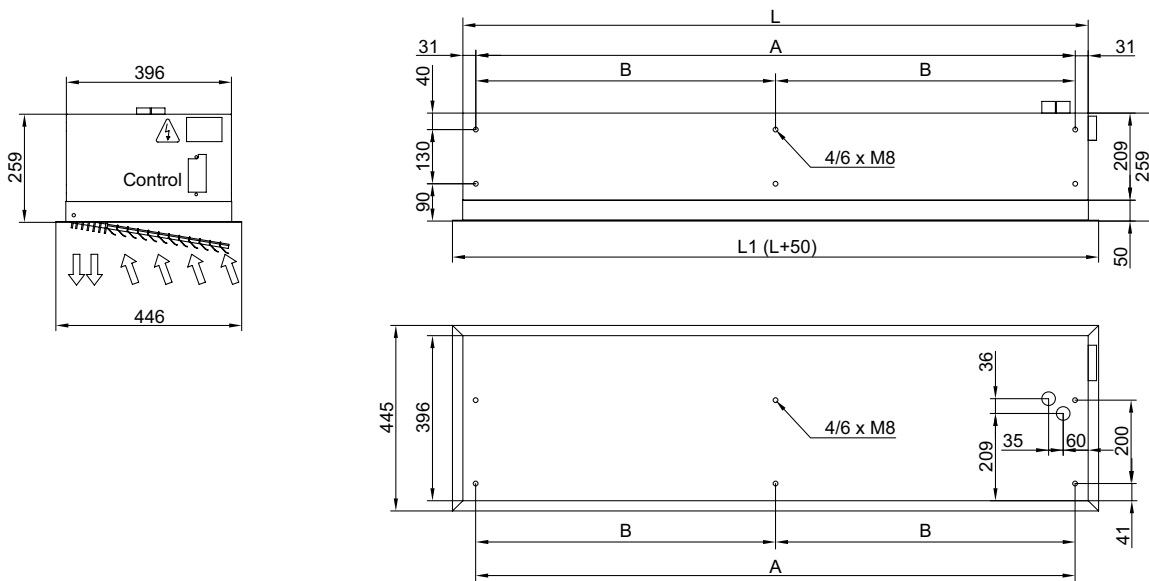
## Specifications

Model	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure Pa	Heating Heating Capacity (*) kW	Electrical Heating Voltage V	Electrical Heating Current A	Power Fans 230V-50Hz W	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
RO 1000 A	850/1350	-	-	-	-	-	40/87	0,23/0,42	41/50	24
RO 1000 P	725/1150	8	5050	-	-	-	40/87	0,23/0,42	41/50	26,5
RO 1000 E	850/1350	-	-	4/6	400Vx3	5,8/8,7	40/87	0,23/0,42	41/50	26
RO 1000 E230	850/1350	-	-	3,8/5,6	230Vx1	16,5/24,5	40/87	0,23/0,42	41/50	26
RO 1500 A	1250/2050	-	-	-	-	-	64/117	0,37/0,63	43/52	34
RO 1500 P	1100/1750	12,6	5360	-	-	-	64/117	0,37/0,63	43/52	37,5
RO 1500 E	1250/2050	-	-	6/9	400Vx3	8,7/13	64/117	0,37/0,63	43/52	37,5
RO 1500 E230-6	1250/2050	-	-	3,8/5,6	230Vx1	16,5/24,5	64/117	0,37/0,63	43/52	37,5
RO 1500 E230-9	1250/2050	-	-	6/9	230Vx1	26/39,1	64/117	0,37/0,63	43/52	37,5
RO 2000 A	1700/2700	-	-	-	-	-	80/174	0,46/0,84	46/55	44,5
RO 2000 P	1450/2300	16,7	5230	-	-	-	80/174	0,46/0,84	46/55	49
RO 2000 E	1700/2700	-	-	5,6/11,3	400Vx3	8,1/16,3	80/174	0,46/0,84	46/55	53,5
RO 2000 E230	1700/2700	-	-	5,6/11,3	230Vx1	24,5/49,1	80/174	0,46/0,84	46/55	53,5

Water heated pipes connection 1/2"

(\*) Under request other electrical heating capacities may be supplied

## Dimensions



	L	L1	A	B
RO 1000	1000	1050	938	-
RO 1500	1500	1550	1438	-
RO 2000	2000	2050	1938	969



## Characteristics



- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection. Very low noise level.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- "P" type includes water heated coil (2x3/4"). "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

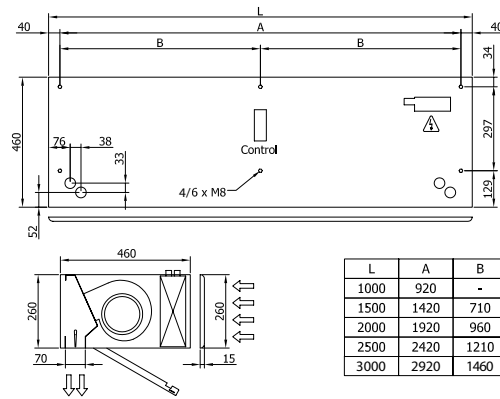
Model	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
S 1000 P	1250	8,53	560	6,85	2780	6,66	770	-	0,372	1,68	53	39
S 1000 E	1300	-	-	-	-	-	-	3/6/9	0,372	1,68	53	41
S 1000 A	1300	-	-	-	-	-	-	-	0,372	1,68	53	34
S 1500 P	1875	12,92	500	10,80	4250	11,01	2970	-	0,558	2,52	54	58
S 1500 E	1950	-	-	-	-	-	-	4/8/12	0,558	2,52	54	62
S 1500 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	50
S 2000 P	2500	18,11	1270	14,46	3110	14,42	1350	-	0,744	3,36	55	73
S 2000 E	2600	-	-	-	-	-	-	6/12/18	0,744	3,36	55	80
S 2000 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	62
S 2500 P	3125	23,13	2530	18,10	2600	18,67	2690	-	0,930	4,20	56	79
S 2500 E	3250	-	-	-	-	-	-	6/12/18	0,930	4,20	56	86
S 2500 A	3250	-	-	-	-	-	-	-	0,930	4,20	56	66
S 3000 P	3750	28,39	4440	21,47	3910	22,79	3830	-	1,116	5,04	57	91
S 3000 E	3900	-	-	-	-	-	-	8/16/24	1,116	5,04	57	99
S 3000 A	3900	-	-	-	-	-	-	-	1,116	5,04	57	76
M 1000 P	1800	10,27	850	8,72	4250	8,63	1260	-	0,510	2,22	54	39
M 1000 E	1850	-	-	-	-	-	-	3/6/9	0,510	2,22	54	41
M 1000 A	1850	-	-	-	-	-	-	-	0,510	2,22	54	34
M 1500 P	2700	16,98	750	13,86	6690	14,29	4740	-	0,765	3,33	55	58
M 1500 E	2775	-	-	-	-	-	-	4/8/12	0,765	3,33	55	62
M 1500 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	50
M 2000 P	3600	23,60	1950	18,58	4870	18,77	2160	-	1,020	4,44	56	73
M 2000 E	3700	-	-	-	-	-	-	6/12/18	1,020	4,44	56	80
M 2000 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	62
M 2500 P	4500	29,16	3860	23,18	4030	24,30	4320	-	1,275	5,55	57	79
M 2500 E	4625	-	-	-	-	-	-	6/12/18	1,275	5,55	57	86
M 2500 A	4625	-	-	-	-	-	-	-	1,275	5,55	57	66
M 3000 P	5400	35,78	6790	28,65	7150	29,68	6180	-	1,530	6,66	58	91
M 3000 E	5550	-	-	-	-	-	-	8/16/24	1,530	6,66	58	99
M 3000 A	5550	-	-	-	-	-	-	-	1,530	6,66	58	76
G 1000 P	2700	13,10	1300	11,31	6830	11,29	2020	-	0,765	3,33	55	44
G 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	46
G 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	38
G 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	64
G 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	68
G 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	55



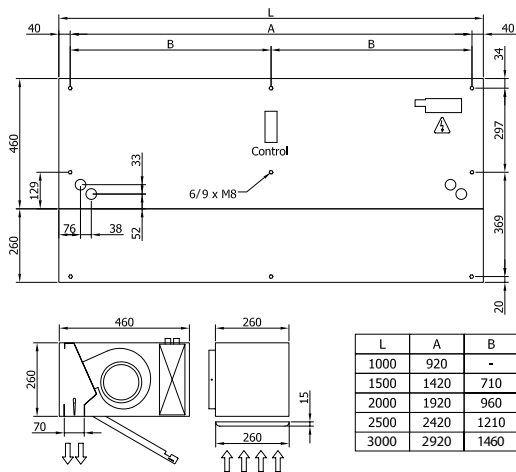


Model	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
G 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	83
G 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	90
G 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	72
G 2500 P	6300	36,00	5680	28,90	6000	30,58	6520	-	1,785	7,77	58	87
G 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	96
G 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	76
G 3000 P	7200	42,91	9530	34,62	10070	36,20	8850	-	2,040	8,88	59	99
G 3000 E	7400	-	-	-	-	-	-	10/20/30	2,040	8,88	59	109
G 3000 A	7400	-	-	-	-	-	-	-	2,040	8,88	59	86

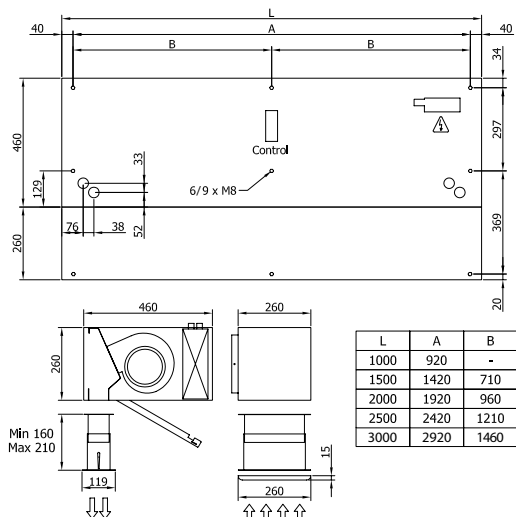
## Layouts and dimensions



Free hanging mounting



Inside ceiling surface mounting



False ceiling invisible mounting



## Characteristics



- Self-supporting casing construction made of galvanised plated steel, ready to be installed recessed in a false ceiling.
- The inlet grille (aluminium profile) and blow-out nozzle are integrated in a single white frame, colour RAL 9016. Other colours are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact provided with 5-speed selection. Very low noise level.
- “P” type includes water heated coil (2x3/4”). “E” type includes electrical shielded element, 3 power stages with power switches included. “A” type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

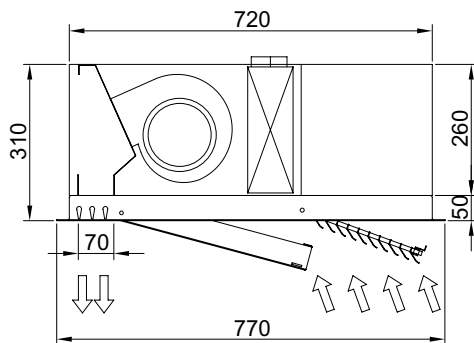
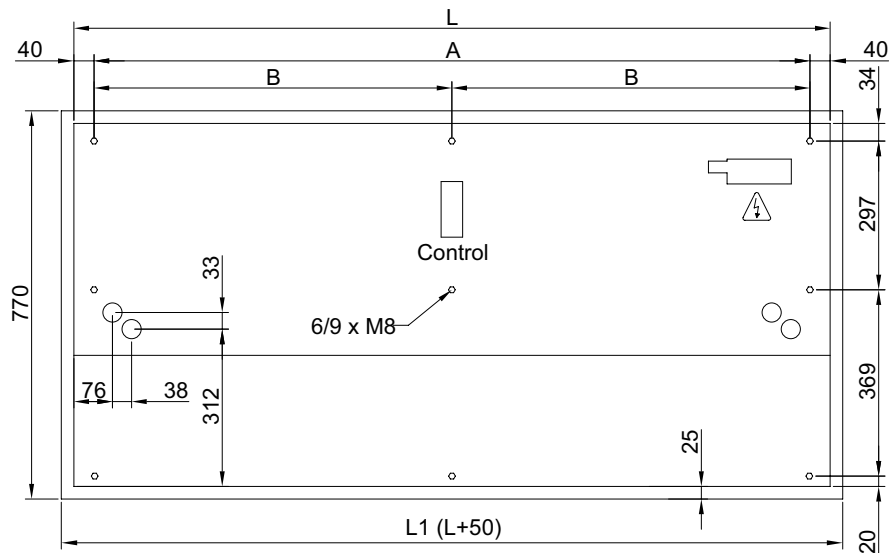
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RS 1000 P	1250	8,53	560	6,85	2780	6,66	770	-	0,372	1,68	53	56
RS 1000 E	1300	-	-	-	-	-	-	3/6/9	0,372	1,68	53	58
RS 1000 A	1300	-	-	-	-	-	-	-	0,372	1,68	53	51
RS 1500 P	1875	12,92	500	10,80	4250	11,01	2970	-	0,558	2,52	54	83
RS 1500 E	1950	-	-	-	-	-	-	4/8/12	0,558	2,52	54	87
RS 1500 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	75
RS 2000 P	2500	18,11	1270	14,46	3110	14,42	1350	-	0,744	3,36	55	107
RS 2000 E	2600	-	-	-	-	-	-	6/12/18	0,744	3,36	55	114
RS 2000 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	96
RS 2500 P	3125	23,13	2530	18,10	2600	18,67	2690	-	0,930	4,20	56	121
RS 2500 E	3250	-	-	-	-	-	-	6/12/18	0,930	4,20	56	128
RS 2500 A	3250	-	-	-	-	-	-	-	0,930	4,20	56	108
RM 1000 P	1800	10,27	850	8,72	4250	8,63	1260	-	0,510	2,22	54	56
RM 1000 E	1850	-	-	-	-	-	-	3/6/9	0,510	2,22	54	58
RM 1000 A	1850	-	-	-	-	-	-	-	0,510	2,22	54	51
RM 1500 P	2700	16,98	750	13,86	6690	14,29	4740	-	0,765	3,33	55	83
RM 1500 E	2775	-	-	-	-	-	-	4/8/12	0,765	3,33	55	87
RM 1500 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	75
RM 2000 P	3600	23,60	1950	18,58	4870	18,77	2160	-	1,020	4,44	56	107
RM 2000 E	3700	-	-	-	-	-	-	6/12/18	1,020	4,44	56	114
RM 2000 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	96
RM 2500 P	4500	29,16	3860	23,18	4030	24,30	4320	-	1,275	5,55	57	121
RM 2500 E	4625	-	-	-	-	-	-	6/12/18	1,275	5,55	57	128
RM 2500 A	4625	-	-	-	-	-	-	-	1,275	5,55	57	108

# RECESSED WINDBOX S,M,G | High Pressure Recessed Air Curtains For Commercial And Industrial Doors



Model	Airflow m <sup>3</sup> /h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
RG 1000 P	2700	13,10	1300	11,31	6830	11,29	2020	-	0,765	3,33	55	61
RG 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	63
RG 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	55
RG 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	89
RG 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	93
RG 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	80
RG 2000 P	5400	30,40	3320	2x3/4"	24,18	7860	2x3/4"	-	1,530	6,66	57	117
RG 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	124
RG 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	106
RG 2500 P	6300	36,00	5680	2x3/4"	28,90	6000	2x3/4"	-	1,785	7,77	58	129
RG 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	138
RG 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	118

## Dimensions



	L	L1	A	B
Recessed Windbox 1000	1000	1050	920	-
Recessed Windbox 1500	1500	1550	1420	710
Recessed Windbox 2000	2000	2050	1920	960
Recessed Windbox 2500	2500	2550	2420	1210


**Characteristics**

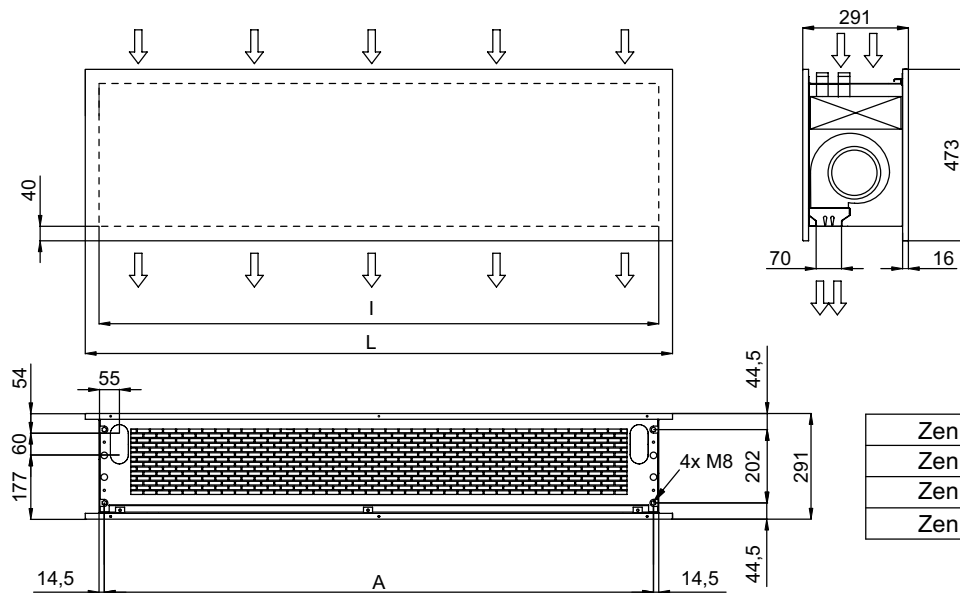

- Decorative air curtain in contemporary architectural style. Its minimalist and smart design integrates in any environment and we offer the option to customise, meeting our clients need.
- Can include personalised logos, signs, graphic designs, etc...even can incorporate clocks, lighting, etc.
- Front panels are anodised aluminium. Options for stainless steel and gloss, matt or brushed paint finishes. Other materials are possible as wood, metal stressed finish etc...
- Central structure made of zinc plated steel finished in black forge as standard. Other colours available on request.
- Centrifugal double-inlet fans with external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- "P" type includes water heated coil (2x3/4)". "E" type includes electrical element with 3 power stages. "A" type is unheated, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m3/h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
ZEN M 1000 P	1875	10,52	890	9,04	4450	8,87	1310	-	0,591	2,58	54	37
ZEN M 1000 E	1950	-	-	-	-	-	-	3/6/9	0,591	2,58	54	40
ZEN M 1000 A	1950	-	-	-	-	-	-	-	0,591	2,58	54	32
ZEN M 1500 P	2500	16,14	700	13,28	6390	13,54	4300	-	0,788	3,44	55	53
ZEN M 1500 E	2600	-	-	-	-	-	-	4/8/12	0,788	3,44	55	58
ZEN M 1500 A	2600	-	-	-	-	-	-	-	0,788	3,44	55	46
ZEN M 2000 P	3750	24,22	2020	19,11	5140	19,38	2330	-	1,182	5,16	56	71
ZEN M 2000 E	3900	-	-	-	-	-	-	6/12/18	1,182	5,16	56	77
ZEN M 2000 A	3900	-	-	-	-	-	-	-	1,182	5,16	56	62
ZEN M 2500 P	4375	28,66	3750	22,80	3930	23,85	4210	-	1,379	6,02	57	86
ZEN M 2500 E	4550	-	-	-	-	-	-	6/12/18	1,379	6,02	57	94
ZEN M 2500 A	4550	-	-	-	-	-	-	-	1,379	6,02	57	75
ZEN G 1000 P	2700	13,10	1300	11,31	6850	11,29	2020	-	0,765	3,33	55	40
ZEN G 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	43
ZEN G 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	36
ZEN G 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	57
ZEN G 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	62
ZEN G 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	50
ZEN G 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	78
ZEN G 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	85
ZEN G 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	69
ZEN G 2500 P	6300	36,03	5700	28,94	6020	30,58	6520	-	1,785	7,77	58	95
ZEN G 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	103
ZEN G 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	83



Dimensions



	L	I	A
Zen 1000	1220	1140	1115
Zen 1500	1620	1544	1515
Zen 2000	2120	2044	2015
Zen 2500	2620	2544	2515

Finishes

- Painted any RAL colour or metal
- Different materials: aluminium, stainless steel AISI 304 (brushed or polished), wood, glass, PVC/PES, etc.
- Logos, lights, clocks, signs, vinyls, patterns, etc.



Examples of customised front panels, to meet customers needs





**Characteristics**



- Decorative round air curtain for vertical or horizontal installation.
- Faceted self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester white RAL 9016 or silver grey RAL 9006 as standard. Other colours or stainless steel construction are available on request.
- Double-inlet centrifugal fans with external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- Perforated inlet grille with filter functions and easy service. It does not need pre-filter.
- "P" type includes water heated coil (2x3/4"). "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m <sup>3</sup> /h	Water Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Water Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Water Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power Input 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
RUND M 1000 P	1875	10,52	890	9,04	4450	8,87	1310	-	0,558	2,52	54	47
RUND M 1000 E	1950	-	-	-	-	-	-	3/6/9	0,558	2,52	54	49
RUND M 1000 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	42
RUND M 1500 P	2500	16,14	700	13,28	6390	13,54	4300	-	0,744	3,36	55	71
RUND M 1500 E	2600	-	-	-	-	-	-	4/8/12	0,744	3,36	55	75
RUND M 1500 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	63
RUND M 2000 P	3750	24,22	2020	19,11	5140	19,38	2330	-	1,116	5,04	56	90
RUND M 2000 E	3900	-	-	-	-	-	-	6/12/18	1,116	5,04	56	97
RUND M 2000 A	3900	-	-	-	-	-	-	-	1,116	5,04	56	79
RUND M 2500 P	4375	28,66	3750	22,80	3930	23,85	4210	-	1,302	5,88	57	101
RUND M 2500 E	4550	-	-	-	-	-	-	6/12/18	1,302	5,88	57	108
RUND M 2500 A	4550	-	-	-	-	-	-	-	1,302	5,88	57	88
RUND M 3000 P	5000	34,08	6220	27,23	6510	28,12	5620	-	1,488	6,72	58	112
RUND M 3000 E	5200	-	-	-	-	-	-	8/16/24	1,488	6,72	58	119
RUND M 3000 A	5200	-	-	-	-	-	-	-	1,488	6,72	58	99
RUND G 1000 P	2700	13,10	1300	11,31	6850	11,29	2020	-	0,765	3,33	55	52
RUND G 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	54
RUND G 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	46
RUND G 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	77
RUND G 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	81
RUND G 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	68
RUND G 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	100
RUND G 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	107
RUND G 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	89
RUND G 2500 P	6300	36,03	5700	28,94	6020	30,58	6520	-	1,785	7,77	58	109
RUND G 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	118
RUND G 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	98
RUND G 3000 P	7200	42,94	9540	34,63	10100	36,20	8850	-	2,040	8,88	59	119
RUND G 3000 E	7400	-	-	-	-	-	-	10/20/30	2,040	8,88	59	128
RUND G 3000 A	7400	-	-	-	-	-	-	-	2,040	8,88	59	108

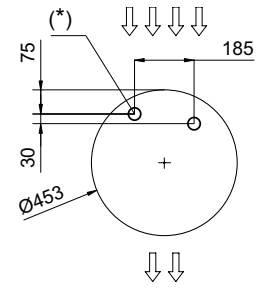
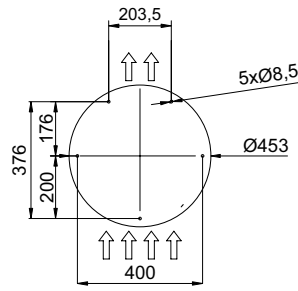


Layouts and dimensions

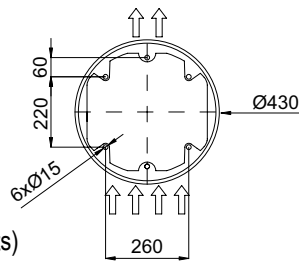
Vertical installation



Floor fixing points without foot



Floor fixing points with foot



	L
RUND 1000	1025
RUND 1500	1525
RUND 2000	2030
RUND 2500	2530
RUND 3000	2980

(\*) IN/OUT Water pipes connection (in water heated units)

Horizontal installation



Ceiling fixation through threaded rods



Wall/ceiling fixation through arms



Wall/ceiling fixation through angle supports



Wall fixation through lateral arms



Floor fixation (goalpost)



**Characteristics**



- Structure made of aluminium profiles and galvanised plated steel panels, finished in structural epoxy-polyester white RAL 9016 or silver grey RAL 9006 as standard. Other colours are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection. Very low noise level.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- “P” type includes water heated coil (2x3/4”). “E” type includes electrical shielded element, 3 power stages with power switches included. “A” type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

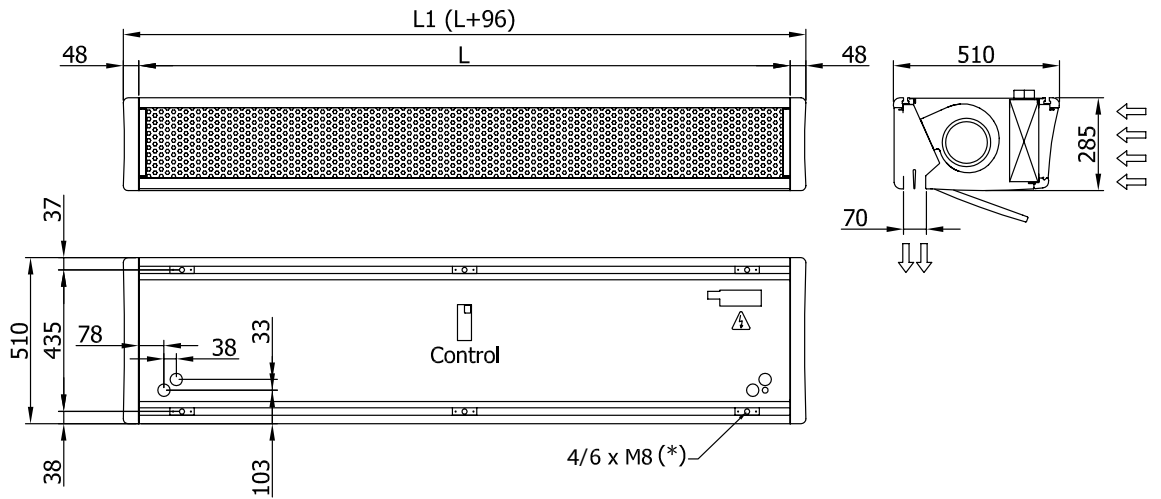
**Specifications**

Model	Airflow m3/h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
DS 1000 P	1250	8,53	560	6,85	2780	6,66	770	-	0,372	1,68	53	41
DS 1000 E	1300	-	-	-	-	-	-	3/6/9	0,372	1,68	53	43
DS 1000 A	1300	-	-	-	-	-	-	-	0,372	1,68	53	36
DS 1500 P	1875	12,92	500	10,80	4250	11,01	2970	-	0,558	2,52	54	61
DS 1500 E	1950	-	-	-	-	-	-	4/8/12	0,558	2,52	54	65
DS 1500 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	53
DS 2000 P	2500	18,11	1270	14,46	3110	14,42	1350	-	0,744	3,36	55	77
DS 2000 E	2600	-	-	-	-	-	-	6/12/18	0,744	3,36	55	84
DS 2000 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	66
DS 2500 P	3125	23,13	2530	18,10	2600	18,67	2690	-	0,930	4,20	56	84
DS 2500 E	3250	-	-	-	-	-	-	6/12/18	0,930	4,20	56	91
DS 2500 A	3250	-	-	-	-	-	-	-	0,930	4,20	56	71
DM 1000 P	1800	10,27	850	8,72	4250	8,63	1260	-	0,510	2,22	54	41
DM 1000 E	1850	-	-	-	-	-	-	3/6/9	0,510	2,22	54	43
DM 1000 A	1850	-	-	-	-	-	-	-	0,510	2,22	54	36
DM 1500 P	2700	16,98	750	13,86	6690	14,29	4740	-	0,765	3,33	55	61
DM 1500 E	2775	-	-	-	-	-	-	4/8/12	0,765	3,33	55	65
DM 1500 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	53
DM 2000 P	3600	23,60	1950	18,58	4870	18,77	2160	-	1,020	4,44	56	77
DM 2000 E	3700	-	-	-	-	-	-	6/12/18	1,020	4,44	56	84
DM 2000 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	66
DM 2500 P	4500	29,16	3860	23,18	4030	24,30	4320	-	1,275	5,55	57	84
DM 2500 E	4625	-	-	-	-	-	-	6/12/18	1,275	5,55	57	81
DM 2500 A	4625	-	-	-	-	-	-	-	1,275	5,55	57	91
DG 1000 P	2700	13,10	1300	11,31	6830	11,29	2020	-	0,765	3,33	55	46
DG 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	48
DG 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	40
DG 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	67
DG 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	71
DG 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	58
DG 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	87
DG 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	94
DG 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	76
DG 2500 P	6300	36,00	5680	28,90	6000	30,58	6520	-	1,785	7,77	58	92
DG 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	101
DG 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	81





Dimensions



	L	L1
Deco 1000	1000	1096
Deco 1500	1500	1596
Deco 2000	2000	2096
Deco 2500	2500	2596

Details



Joining two units



(\*) Adjustable fixing points through guide rail



Different colour finishes



**Characteristics**



- Self-supporting casing construction made of galvanised plated steel, finished in structural white RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- The inlet is made behind the front panel. It does not need maintenance.
- Front panel with option to customise and the possibility of including personalised logos, signs, graphic designs, images, etc.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact provided with 5-speed selection. Very low noise level.
- “P” type includes water heated coil (2x3/4”). “E” type includes electrical shielded element, 3 power stages with power switches included. “A” type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

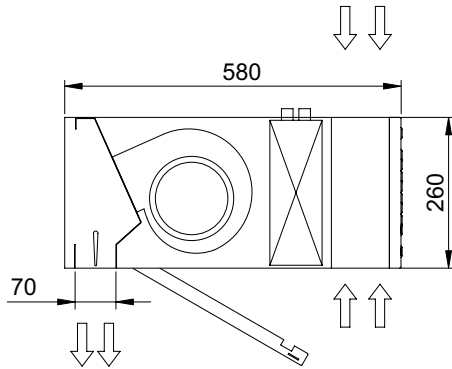
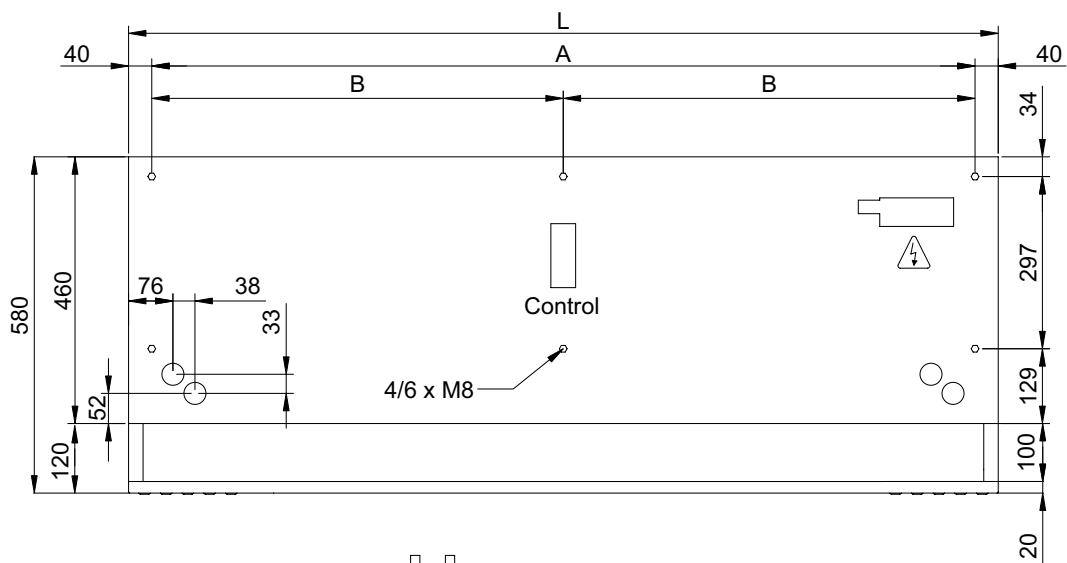
**Specifications**

Modelo	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
DAM S 1000 P	1250	8,53	560	6,85	2780	6,66	770	-	0,372	1,68	53	43
DAM S 1000 E	1300	-	-	-	-	-	-	3/6/9	0,372	1,68	53	45
DAM S 1000 A	1300	-	-	-	-	-	-	-	0,372	1,68	53	38
DAM S 1500 P	1875	12,92	500	10,80	4250	11,01	2970	-	0,558	2,52	54	64
DAM S 1500 E	1950	-	-	-	-	-	-	4/8/12	0,558	2,52	54	68
DAM S 1500 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	56
DAM S 2000 P	2500	18,11	1270	14,46	3110	14,42	1350	-	0,744	3,36	55	81
DAM S 2000 E	2600	-	-	-	-	-	-	6/12/18	0,744	3,36	55	88
DAM S 2000 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	70
DAM S 2500 P	3125	23,13	2530	18,10	2600	18,67	2690	-	0,930	4,20	56	89
DAM S 2500 E	3250	-	-	-	-	-	-	6/12/18	0,930	4,20	56	96
DAM S 2500 A	3250	-	-	-	-	-	-	-	0,930	4,20	56	76
DAM S 3000 P	3750	28,39	4440	21,47	3910	22,79	3830	-	1,116	5,04	57	103
DAM S 3000 E	3900	-	-	-	-	-	-	8/16/24	1,116	5,04	57	111
DAM S 3000 A	3900	-	-	-	-	-	-	-	1,116	5,04	57	88
DAM M 1000 P	1800	10,27	850	8,72	4250	8,63	1260	-	0,510	2,22	54	43
DAM M 1000 E	1850	-	-	-	-	-	-	3/6/9	0,510	2,22	54	45
DAM M 1000 A	1850	-	-	-	-	-	-	-	0,510	2,22	54	38
DAM M 1500 P	2700	16,98	750	13,86	6690	14,29	4740	-	0,765	3,33	55	64
DAM M 1500 E	2775	-	-	-	-	-	-	4/8/12	0,765	3,33	55	68
DAM M 1500 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	56
DAM M 2000 P	3600	23,60	1950	18,58	4870	18,77	2160	-	1,020	4,44	56	81
DAM M 2000 E	3700	-	-	-	-	-	-	6/12/18	1,020	4,44	56	88
DAM M 2000 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	70
DAM M 2500 P	4500	29,16	3860	23,18	4030	24,30	4320	-	1,275	5,55	57	89
DAM M 2500 E	4625	-	-	-	-	-	-	6/12/18	1,275	5,55	57	96
DAM M 2500 A	4625	-	-	-	-	-	-	-	1,275	5,55	57	76
DAM M 3000 P	5400	35,78	6790	28,65	7150	29,68	6180	-	1,530	6,66	58	103
DAM M 3000 E	5550	-	-	-	-	-	-	8/16/24	1,530	6,66	58	111
DAM M 3000 A	5550	-	-	-	-	-	-	-	1,530	6,66	58	88
DAM G 1000 P	2700	13,10	1300	11,31	6830	11,29	2020	-	0,765	3,33	55	48
DAM G 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	50
DAM G 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	42
DAM G 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	70
DAM G 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	74
DAM G 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	61



Model	Airflow m <sup>3</sup> /h	Heating capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
DAM G 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	91
DAM G 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	98
DAM G 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	80
DAM G 2500 P	6300	36,00	5680	28,90	6000	30,58	6520	-	1,785	7,77	58	97
DAM G 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	106
DAM G 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	86
DAM G 3000 P	7200	42,91	9530	34,62	10070	36,20	8850	-	2,040	8,88	59	111
DAM G 3000 E	7400	-	-	-	-	-	-	10/20/30	2,040	8,88	59	121
DAM G 3000 A	7400	-	-	-	-	-	-	-	2,040	8,88	59	98

**Dimensions**



L	A	B
1000	920	-
1500	1420	710
2000	1920	960
2500	2420	1210
3000	2920	1460



## EC Technology

EC technology (Electronically Commutated) combines AC and DC voltages, bringing the best of both technologies: the motor runs on a DC voltage, but with a normal AC supply.

The EC motor incorporates voltage transformation within the motor. The non-rotating part of the motor (stator) is extended to make room for an electronic PCB board which includes power transformation AC to DC, as well as the controls.

EC motor have no slippage losses, reducing losses and increasing efficiency versus AC motors.

## EC Motor Principle

- Permanent-magnet brushless DC motor within the rotor.
- The stator is driven by electronic switches (which replace the Carbon brushes), controlled by a microcontroller.
- Electronic system (hall effect sensor or software is used to recognize the rotor position).
- AC operated 230Vx1 or 400Vx3, valid for 50/60Hz.

## Advantages and Benefits

The new Airtecnicos EC Air curtains are fascinatingly efficient reducing the running cost of the ventilation up to 67% using EC instead of AC fans.

- Energy savings : Minimum power consumption & better efficiency than AC equivalent.
- Low motor temperature : for longer lifetime than AC equivalent
- Simplicity : Electronic & power transformation are completely integrated within the motor.
- High performance: Speed can be driven up to 3600rpm.

Available EC Air Curtains: Windbox SMG, Wec, Rec, Deco, Kool, Recessed Windbox, Dam, Duojet, Variwind, Rund, Zen, Rotowind and Invisair.

## EC vs AC Air Curtain - Energy Saving Example

How much money can I save using an EC Air curtain?

Example:

Door dimension: 2 m width by 3 m height

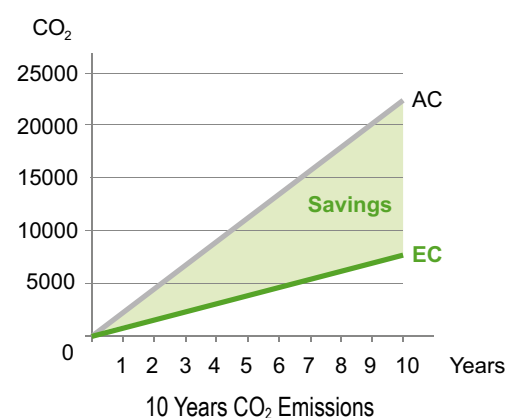
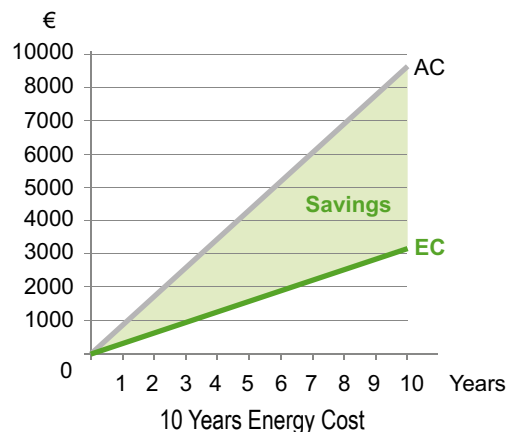
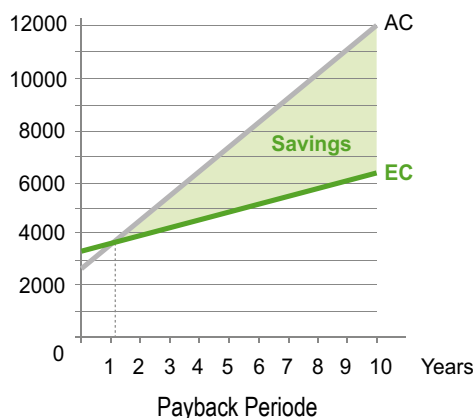
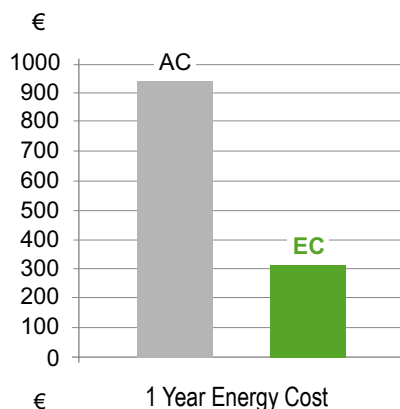
Running time: 12 hours/day, 6 days/week,  
50 weeks (~ 1 year)

Energy cost: 0,17 €/kW/h (EU-27 average cost)

Selected unit: G 2000

	AC Air Curtain		EC Air Curtain		Difference
Total Fans Power	1,530	kW	0,504	kW	- 1,026 kW
Air Curtain Price	2.600	€/unit	3.300	€/unit	+ 700 €
Energy Consumption	5.508	kW/h	1.814	kW/h	- 3.694 kW/h
Energy Cost	936	€	308	€	- 628 €
CO2 Emissions	2.203	kg	726	kg	- 1.477 kg

Result: The payback periode is 1,4 years. We recover the price increase of EC air curtain in less than two years and then we start saving energy, money and reduce CO<sub>2</sub> emissions to the enviroment.





## Characteristics

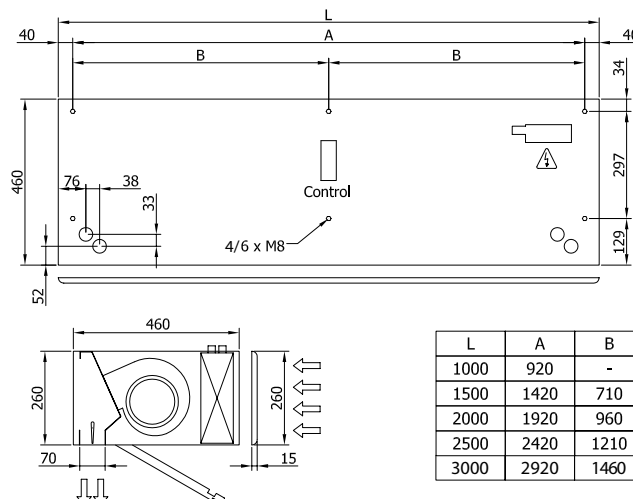


- Assembled with low consumption EC fans that save up to 67% of the energy without decreasing the airflow.
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection. Very low noise level.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- "P" type includes water heated coil (2x3/4"). "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

Model	Airflow m3/h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
WEC 1000 A	2700	-	-	-	-	-	-	-	0,252	1,71	55	38
WEC 1000 P	2610	12,85	1260	11,05	6530	11,13	2020	-	0,252	1,71	55	44
WEC 1000 E	2700	-	-	-	-	-	-	3/6/9	0,252	1,71	55	46
WEC 1500 A	3600	-	-	-	-	-	-	-	0,336	2,28	56	55
WEC 1500 P	3480	18,71	1010	16,35	9010	17,07	6690	-	0,336	2,28	56	64
WEC 1500 E	3600	-	-	-	-	-	-	4/8/12	0,336	2,28	56	68
WEC 2000 A	5400	-	-	-	-	-	-	-	0,504	3,42	57	72
WEC 2000 P	5220	28,52	2950	23,64	7520	24,18	3400	-	0,504	3,42	57	83
WEC 2000 E	5400	-	-	-	-	-	-	6/12/18	0,504	3,42	57	90
WEC 2500 A	6300	-	-	-	-	-	-	-	0,588	3,99	58	76
WEC 2500 P	6090	35,32	5500	28,35	5810	29,92	6300	-	0,588	3,99	58	87
WEC 2500 E	6300	-	-	-	-	-	-	6/12/18	0,588	3,99	58	96
WEC 3000 A	7200	-	-	-	-	-	-	-	0,672	4,56	59	86
WEC 3000 P	6960	42,06	9170	33,95	9740	35,45	8620	-	0,672	4,56	59	97
WEC 3000 E	7200	-	-	-	-	-	-	8/16/24	0,672	4,56	59	106

## Dimensions





## Characteristics

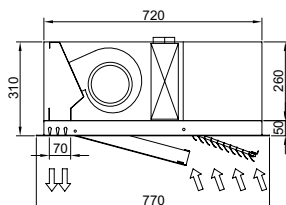
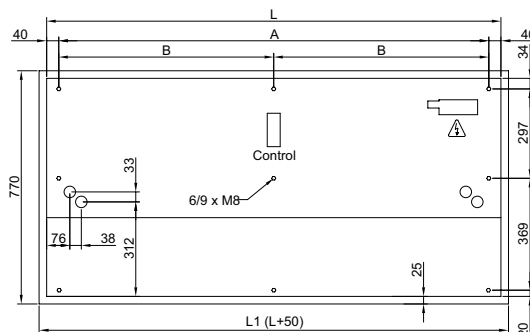


- Assembled with low consumption EC fans that save up to 67% of the energy without decreasing the airflow.
- Self-supporting casing construction made of galvanised plated steel, ready to be installed recessed in a false ceiling.
- The inlet grille (aluminium profile) and blow-out nozzle are integrated in a single white frame, colour RAL 9016. Other colours are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection. Very low noise level.
- "P" type includes water heated coil (2x3/4"). "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

Model	Airflow m3/h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
REC 1000 A	2700	-	-	-	-	-	-	-	0,252	1,71	55	55
REC 1000 P	2610	12,85	1260	11,06	6530	11,13	2020	-	0,252	1,71	55	61
REC 1000 E	2700	-	-	-	-	-	-	3/6/9	0,252	1,71	55	63
REC 1500 A	3600	-	-	-	-	-	-	-	0,336	2,28	56	80
REC 1500 P	3480	18,71	1010	16,35	9010	17,07	6690	-	0,336	2,28	56	89
REC 1500 E	3600	-	-	-	-	-	-	4/8/12	0,336	2,28	56	93
REC 2000 A	5400	-	-	-	-	-	-	-	0,504	3,42	57	106
REC 2000 P	5220	28,52	2950	23,64	7520	24,18	3400	-	0,504	3,42	57	117
REC 2000 E	5400	-	-	-	-	-	-	6/12/18	0,504	3,42	57	124
REC 2500 A	6300	-	-	-	-	-	-	-	0,588	3,99	58	118
REC 2500 P	6090	35,32	5500	28,35	5810	29,92	6300	-	0,588	3,99	58	129
REC 2500 E	6300	-	-	-	-	-	-	6/12/18	0,588	3,99	58	138

## Dimensions



L	L1	A	B
1000	1050	920	-
1500	1550	1420	710
2000	2050	1920	960
2500	2550	2420	1210



Characteristics

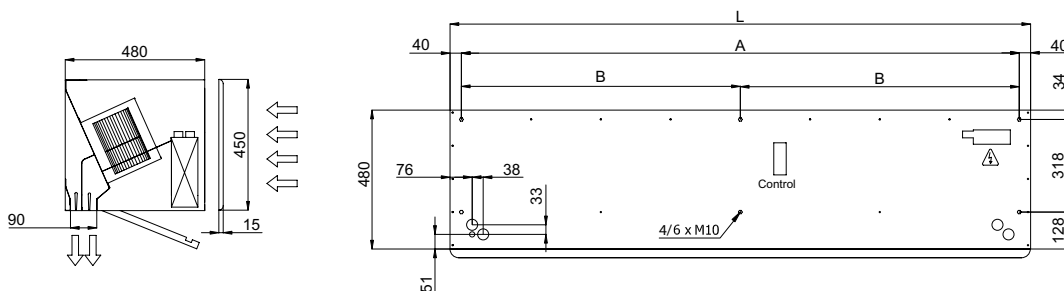


- 2 outlet jets available. It reduces the energy loss as it only warms the air of the inner jet.
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard.
- Low noise centrifugal double-inlet fans driven by an external rotor motor provided with 5-speed selection.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- "P" type includes water heated coils (2x3/4"). "E" type includes electrical shielded elements, 3 power stages with power switches included.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play), included. Optional: Interface to connect to BMS.

Specifications

Model	Airflow m <sup>3</sup> /h	Water Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Water Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Water Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power Input 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
DUO M 1000 P	1875	6,70	380	5,60	1820	5,35	520	-	0,56	2,50	54	64
DUO M 1000 E	1950	-	-	-	-	-	-	3/6/9	0,56	2,50	54	65
DUO M 1500 P	3125	11,20	420	6,50	3400	9,62	2360	-	0,93	4,20	56	87
DUO M 1500 E	3250	-	-	-	-	-	-	4/8/12	0,93	4,20	56	92
DUO M 2000 P	4375	16,40	1090	13,15	2640	13,07	1130	-	1,30	5,85	57	111
DUO M 2000 E	4550	-	-	-	-	-	-	6/12/18	1,30	5,85	57	117
DUO M 2500 P	5625	21,60	2230	16,80	2270	17,26	2340	-	1,49	6,82	58	138
DUO M 2500 E	5850	-	-	-	-	-	-	6/12/18	1,49	6,82	58	146
DUO G 1000 P	2700	8,50	620	7,20	3040	7,03	840	-	0,76	3,33	55	69
DUO G 1000 E	2725	-	-	-	-	-	-	3/6/9	0,76	3,33	55	70
DUO G 1500 P	4500	14,20	620	12,30	5360	12,59	3820	-	1,27	5,55	57	94
DUO G 1500 E	4625	-	-	-	-	-	-	4/8/12	1,27	5,55	57	99
DUO G 2000 P	6300	20,75	1660	17,00	4140	17,13	1860	-	1,79	7,77	58	121
DUO G 2000 E	6475	-	-	-	-	-	-	6/12/18	1,79	7,77	58	127
DUO G 2500 P	8100	27,30	3410	21,70	3590	22,56	3780	-	2,28	9,99	59	151
DUO G 2500 E	8325	-	-	-	-	-	-	6/12/18	2,28	9,99	59	159

Dimensions



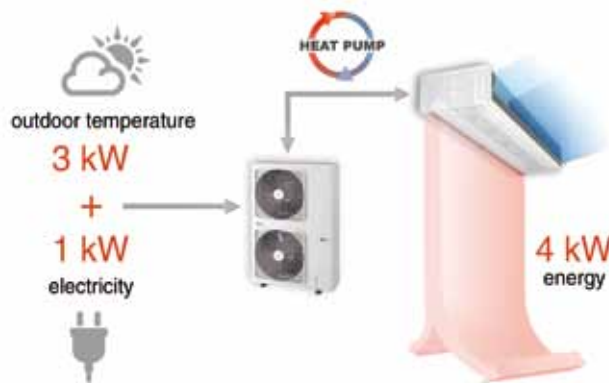
L	A	B
1000	920	-
1500	1420	710
2000	1920	960
2500	2420	1210



## Heat Pump Technology

Heat pump is a device that uses a small amount of energy to move heat from one location to another. This system is extremely efficient because they simply transfer heat, rather than burn fuel to create it. It consists of a closed circuit through which a special fluid (refrigerant) flows. This fluid takes on a liquid or gaseous state according to temperature and pressure conditions.

The circuit is composed by: compressor, condenser, expansion valve and evaporator.



## Advantages and Benefits

The new Airtecnic Heat Pump Air curtains are absolutely efficient reducing the heating cost and CO<sub>2</sub> emissions up to 70%.

- Very high energy efficiency ratings to save big amounts of money on your energy bill
- Short Payback Period thanks to very high level of energy saving
- Heating and cooling included in the same system (reverse cycle)
- Environmentally Friendly as uses such low amounts of energy

Available Airtecnic Heat Pump Air Curtains:

- Heating/Cooling: Windbox SMGLXL, Dam, Recessed Windbox, Wec, Rec, Variwind VW and Duojet.
- Only Heating: Deco, Rund, Zen, Rotowind, Variwind VP and Invisair.

## Heat Pump vs Electrical Air Curtain - Energy Saving Example

How much money can I save using a Heat Pump Air curtain?

Example:

Door dimension: 2 m width by 3 m height

Running time: 12 hours/day, 6 days/week,  
26 weeks (~ 1/2 year)

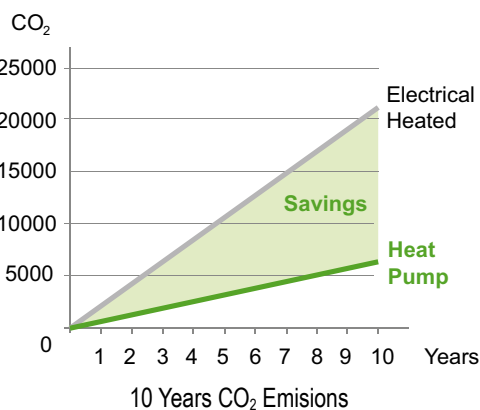
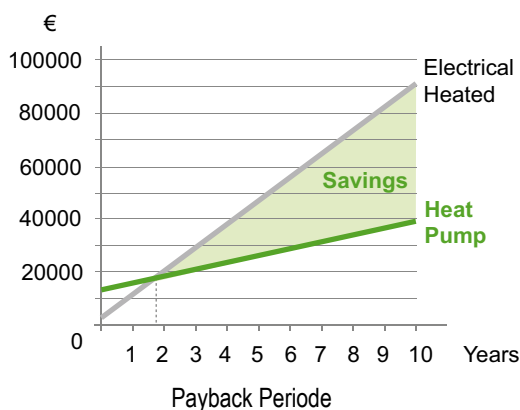
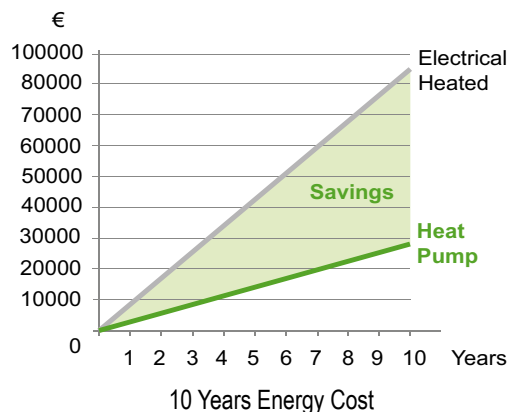
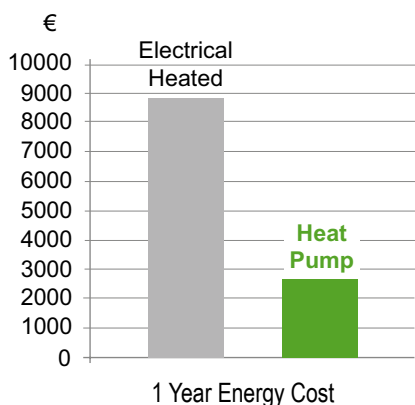
Energy cost: 0,17 €/kW/h (EU-27 average cost)

Selected unit: G 2000, 28kW

COP: 3,31 (Coefficient of Performance)

	Electrical Air Curtain		Heat Pump Air Curtain		Difference
Total Heating Power	28	kW	28	kW	0 kW
Air Curtain Price	3.800	€/unit	11.400	€/unit	+ 7.600 €
Energy Consumption	52.416	kW/h	15.836	kW/h	- 36.580 kW/h
Energy Cost	8.911	€	2.692	€	- 6.219 €
CO <sub>2</sub> Emissions	20.966	kg	6.334	kg	- 14.632 kg

Result: The payback period is 1,8 years. We recover the price increase of Heat Pump air curtain in less than two years and then we start saving energy, money and CO<sub>2</sub> emissions to the environment.







### Characteristics



- Heating or Heating/Cooling energy saving heat pump air curtains: up to 70% reduction in costs and CO<sub>2</sub> emissions (in heat/cool mode).
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Low noise double-inlet centrifugal fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Low turbulence discharge nozzle with double blow-out vane, airfoil shaped, adjustable from 0 to 15° each side.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Control panel and 7m of telephone cable with fast connectors type RJ45 (Plug & Play), included.
- DX Interface KIT with TOSHIBA programmable control.
- TOSHIBA Digital Inverter outdoor heat pump unit (R410A) with expansion valve.

### Specifications

Model (*)	Airflow m <sup>3</sup> /h	Heating Capacity kW	Heating Power kW	Heating COP	Cooling Capacity kW	Cooling Power kW	Cooling EER	Power Supply	Power	Current	Noise	Weight kg
									Fans 230V-50Hz kW	Fans 230V-50Hz A	Level (5 m) dB(A)	
M 1000 DX8	1800	8	2,21	3,62	6,7	2,09	3,21	1x230V	0,510	2,22	54	41
M 1000 DX11	1800	11,2	2,93	3,82	10	3,11	3,22	1x230V	0,510	2,22	54	41
M 1500 DX14	2700	14	3,80	3,68	12	3,74	3,21	1x230V	0,765	3,33	55	60
M 1500 DX16	2700	16	4,43	3,61	14	4,49	3,12	1x230V	0,765	3,33	55	60
M 2000 DX16	3600	16	4,43	3,61	14	4,49	3,12	1x230V	1,020	4,44	56	77
M 2000 DX22	3600	22,4	6,49	3,45	20	7,2	2,78	3x400V	1,020	4,44	56	77
M 2500 DX22	4500	22,4	6,49	3,45	20	7,2	2,78	3x400V	1,275	5,55	57	83
M 2500 DX27	4500	27	8,15	3,31	23	8,75	2,63	3x400V	1,275	5,55	57	83
M 3000 DX27	5400	27	8,15	3,31	23	8,75	2,63	3x400V	1,530	6,66	58	95
M 3000 DX32/2	5400	32	8,6	3,72	28	8,98	3,12	3x400V	1,530	6,66	58	95
G 1000 DX14	2700	14	3,80	3,68	12	3,74	3,21	1x230V	0,765	3,33	55	44
G 1000 DX16	2700	16	4,43	3,61	14	4,49	3,12	1x230V	0,765	3,33	55	44
G 1500 DX16	3600	16	4,43	3,61	14	4,49	3,12	1x230V	1,020	4,44	56	64
G 1500 DX22	3600	22,4	6,49	3,45	20	7,2	2,78	3x400V	1,020	4,44	56	64
G 2000 DX27	5400	27	8,15	3,31	23	8,75	2,63	3x400V	1,530	6,66	57	83
G 2000 DX32/2	5400	32	8,6	3,72	28	8,98	3,12	3x400V	1,530	6,66	57	83
G 2500 DX27	6300	27	8,15	3,31	23	8,75	2,63	3x400V	1,785	7,77	58	87
G 2500 DX32/2	6300	32	8,6	3,72	28	8,98	3,12	3x400V	1,785	7,77	58	87
G 3000 DX32/2	7200	32	8,6	3,72	28	8,98	3,12	3x400V	2,040	8,88	59	99
G 3000 DX38/2	7200	38,4	10,79	3,58	34	11,69	2,95	3x400V	2,040	8,88	59	99

(\*) DX is also applicable to the models: Recessed Windbox SMG, DAM, WEC and REC  
 /2 Coil with double circuit and two outdoor units (eg. DX32/2 is composed by two units of 16kW)

TOSHIBA Digital Inverter Outdoor Units	Heating Capacity kW	Heating Power kW	SCOP COP (**) W/W	Cooling Capacity kW	Cooling Power kW	SEER EER (**) W/W	Power Supply	Pipes		Pipes Minimum Length m	Pipes Maximum Length m	Pipes Maximum Height m
								Gas	Liquid			
RAV-SM803AT-E	8,0	2,21	4,02	6,7	2,09	5,63	1x230V	5/8	3/8	5	30	30
RAV-SM1103AT-E	11,2	2,93	3,54	10,0	3,11	5,58	1x230V	5/8	3/8	5	50	30
RAV-SP1104AT8-E	11,2	2,42	4,28	10,0	2,37	6,57	3x400V	5/8	3/8	3	75	30
RAV-SM1403AT-E	14,0	3,80	3,68	12,0	3,74	3,21	1x230V	5/8	3/8	5	50	30
RAV-SP1404AT8-E	14,0	3,42	4,09	12,5	3,46	3,61	3x400V	5/8	3/8	3	75	30
RAV-SM1603AT-E	16,0	4,43	3,61	14,0	4,49	3,12	1x230V	5/8	3/8	5	50	30
RAV-SP1604AT8-E	16,0	4,30	3,72	14,0	4,49	3,12	3x400V	5/8	3/8	3	75	30
RAV-SM2244AT8-E	22,4	6,49	3,45	20,0	7,2	2,78	3x400V	1"1/8	1/2"	7,5	70	30
RAV-SM2804AT8-E	27,0	8,15	3,31	23,0	8,75	2,63	3x400V	1"1/8	1/2"	7,5	70	30

(\*\*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW



## Characteristics



HITACHI



- Heating or Heating/Cooling energy saving heat pump air curtains: up to 70% reduction in costs and CO<sub>2</sub> emissions (in heat/cool mode).
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Low noise double-inlet centrifugal fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection.
- Micro-perforated inlet grille with filter functions of easy service. It does not need prefilter.
- Low turbulence discharge nozzle with double anodized aluminum blow-out vane, airfoil shaped, adjustable from 0 to 15° each side.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Control panel and 7m of telephone cable with fast connectors type RJ45 (Plug & Play), included.
- HITACHI DX Interface KIT with expansion valve and programmable control.
- HITACHI Reversible DC Inverter outdoor heat pump unit (R410A).

## Specifications

Model (*)	Airflow m <sup>3</sup> /h	Heating Capacity	Heating Power	Heating COP	Cooling Capacity	Cooling Power	Cooling EER	Power Supply	Power Fans 230V-50Hz	Current Fans 230V-50Hz	Noise Level (5 m)	Weight kg
		kW	kW		kW	kW			kW	A	dB(A)	
M 1000 DX8	1800	8	1,9	4,21	7,1	1,94	3,66	230Vx1	0,510	2,22	54	41
M 1000 DX11	1800	11,2	2,54	4,41	10	2,44	4,10	230Vx1/400Vx3	0,510	2,22	54	41
M 1500 DX14	2700	14	3,39	4,12	12,5	3,53	3,54	230Vx1/400Vx3	0,765	3,33	55	60
M 1500 DX16	2700	16	4,23	3,78	14	4,25	3,29	230Vx1/400Vx3	0,765	3,33	55	60
M 2000 DX16	3600	16	4,23	3,78	14	4,25	3,29	230Vx1/400Vx3	1,020	4,44	56	77
M 2000 DX22	3600	22,4	5,28	4,24	20	5,95	3,36	400Vx3	1,020	4,44	56	77
M 2500 DX22	4500	22,4	5,28	4,24	20	5,95	3,36	400Vx3	1,275	5,55	57	83
M 2500 DX28	4500	28	7,12	3,93	25	7,81	3,2	400Vx3	1,275	5,55	57	83
M 3000 DX28	5000	28	7,12	3,93	25	7,81	3,2	400Vx3	1,530	6,66	58	95
M 3000 DX32/2	5000	32	8,46	3,78	28	8,5	3,29	400Vx3	1,530	6,66	58	95
G 1000 DX14	2700	14	3,39	4,12	12,5	3,53	3,54	230Vx1/400Vx3	0,765	3,33	55	44
G 1000 DX16	2700	16	4,23	3,78	14	4,25	3,29	230Vx1/400Vx3	0,765	3,33	55	44
G 1500 DX16	3600	16	4,23	3,78	14	4,25	3,29	230Vx1/400Vx3	1,020	4,44	56	64
G 1500 DX22	3600	22,4	5,28	4,24	20	5,95	3,36	400Vx3	1,020	4,44	56	64
G 2000 DX28	5400	28	7,12	3,93	25	7,81	3,2	400Vx3	1,530	5,55	57	83
G 2000 DX32/2	5400	32	8,46	3,78	28	8,5	3,29	400Vx3	1,530	5,55	57	83
G 2500 DX28	6300	28	7,12	3,93	25	7,81	3,2	400Vx3	1,785	6,66	58	87
G 2500 DX32/2	6300	32	8,46	3,78	28	8,5	3,29	400Vx3	1,785	6,66	58	87
G 3000 DX28	7200	28	7,12	3,93	25	7,81	3,2	400Vx3	2,040	8,88	59	99
G 3000 DX45/2	7200	44,8	10,56	4,24	40	11,9	3,36	400Vx3	2,040	8,88	59	99

(\*) DX is also applicable to the models: Recessed Windbox SMG, DAM, WEC and REC

/2 Coil with double circuit and two outdoor units (eg. DX32/2 is composed by two units of 16kW)

HITACHI Reversible DC Inverter Outdoor Units	Heating Capacity	Heating Power	COP	Cooling Capacity	Cooling Power	EER	Power Supply	Pipes Gas Liquid	Pipes Maximum Length	Pipes Maximum Height
	kW	kW	W/W	kW	kW	W/W		inch	m	m
RAS-3HVRNME	8,0	1,90	4,21	7,1	1,94	3,66	230Vx1	5/8 3/8	50	30
RAS-4H(V)RNME	11,2	2,54	4,41	10,0	2,44	4,10	230Vx1/400Vx3	5/8 3/8	70	30
RAS-5H(V)RNME	14	3,39	4,12	12,5	3,53	3,54	230Vx1/400Vx3	5/8 3/8	75	30
RAS-6H(V)RNME	16,0	4,23	3,78	14,0	4,25	3,29	230Vx1/400Vx3	5/8 3/8	75	30
RAS-8HRNM	22,4	5,28	4,24	20,0	5,95	3,36	3x400V	1" 3/8	100	30
RAS-10HRNM	28,0	7,12	3,93	25,0	7,81	3,20	3x400V	1" 1/2	100	30



## Characteristics



- Heating or Heating/Cooling energy saving heat pump air curtains: up to 70% reduction in costs and CO<sub>2</sub> emissions (in heat/cool mode).
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Low noise double-inlet centrifugal fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Low turbulence discharge nozzle with double blow-out vane, airfoil shaped, adjustable from 0 to 15° each side.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Control panel and 7m of telephone cable with fast connectors type RJ45 (Plug & Play), included.
- DX Interface KIT with KAYSUN programmable control.
- KAYSUN DC Inverter outdoor heat pump unit (R410A) with expansion valve.

## Specifications

Model (*)	Airflow m <sup>3</sup> /h	Heating Capacity kW	Heating Power kW	Heating SCOP COP (**)	Cooling Capacity kW	Cooling Power kW	Cooling SEER EER (**)	Power Supply	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
M 1000 DX8	1800	7,62	2,09	3,40	7,03	2,19	5,6	1x230V	0,510	2,22	54	41
M 1000 DX11	1800	10,55	3,31	3,4	10,55	3,26	5,1	1x230V/3x400V	0,510	2,22	54	41
M 1500 DX14	2700	14,65	3,90	3,8	13,48	4,00	3,4	3x400V	0,765	3,33	55	60
M 1500 DX17	2700	17,00	4,50	3,8	16,12	4,8	3,3	3x400V	0,765	3,33	55	60
M 2000 DX17	3600	17,00	4,50	3,8	16,12	4,8	3,3	3x400V	1,020	4,44	56	77
M 2000 DX21/2	3600	21,10	6,62	3,4	21,10	6,52	5,1	1x230V/3x400V	1,020	4,44	56	77
M 2500 DX21/2	4500	21,10	6,62	3,4	21,10	6,52	5,1	1x230V/3x400V	1,275	5,55	57	83
M 2500 DX29/2	4500	29,30	7,8	3,8	26,96	6,5	3,4	3x400V	1,275	5,55	57	83
M 3000 DX29/2	5400	29,30	7,8	3,8	26,96	6,5	3,4	3x400V	1,530	6,66	58	95
M 3000 DX34/2	5400	34,00	9	3,8	32,23	9,6	3,3	3x400V	1,530	6,66	58	95
G 1000 DX14	2700	14,65	3,90	3,8	13,48	4,00	3,4	3x400V	0,765	3,33	55	44
G 1000 DX17	2700	17	4,50	3,8	16,12	4,8	3,3	3x400V	0,765	3,33	55	44
G 1500 DX17	3600	17	4,50	3,8	16,12	4,8	3,3	3x400V	1,020	4,44	56	64
G 1500 DX21/2	3600	21,10	6,62	3,4	21,10	6,52	5,1	1x230V/3x400V	1,020	4,44	56	64
G 2000 DX29/2	5400	29,30	7,8	3,8	26,96	6,5	3,4	3x400V	1,530	6,66	57	83
G 2000 DX34/2	5400	34,00	9	3,8	32,23	9,6	3,3	3x400V	1,530	6,66	57	83
G 2500 DX29/2	6300	29,30	7,8	3,8	26,96	6,5	3,4	3x400V	1,785	7,77	58	87
G 2500 DX34/2	6300	34,00	9	3,8	32,23	9,6	3,3	3x400V	1,785	7,77	58	87
G 3000 DX34/2	7200	34,00	9	3,8	32,23	9,6	3,3	3x400V	2,040	8,88	59	99

(\*) DX is also applicable to the models: Recessed Windbox SMG, DAM, WEC and REC  
/2 Coil with double circuit and two outdoor units (eg. DX34/2 is composed by two units of 17kW)

KAYSUN DC Inverter Outdoor Units	Heating Capacity	Heating Power	SCOP COP (**)	Cooling Capacity	Cooling Power	SEER EER (**)	Power Supply	Pipes Gas Liquid	Pipes Maximum Length	Pipes Maximum Height
	kW	kW	W/W	kW	kW	W/W		inch	m	m
KPD-71 DVN6	7,62	2,09	3,4	7,03	2,19	5,6	1x230V	5/8 3/8	50	20
KPD-105 DVN6	10,55	3,31	3,4	10,55	3,26	5,1	1x230V	5/8 3/8	65	20
KPD-105 DTN6	10,55	3,31	3,4	10,55	3,25	5,1	3x400V	5/8 3/8	65	20
KPD-140 DTN6	14,65	3,9	3,8	13,48	4	3,4	3x400V	5/8 3/8	65	30
KPD-176 DTN6	17,00	4,5	3,8	16,12	4,8	3,3	3x400V	5/8 3/8	65	30

(\*\*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW



## Characteristics



- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Centrifugal double-inlet fans driven by an external rotor motor with built-in thermal protection contact. Provided with 5-speed selection. Very low noise level.
- Two frontal grille options.
- "P" type includes water heated coil. "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium blow-out vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 10m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

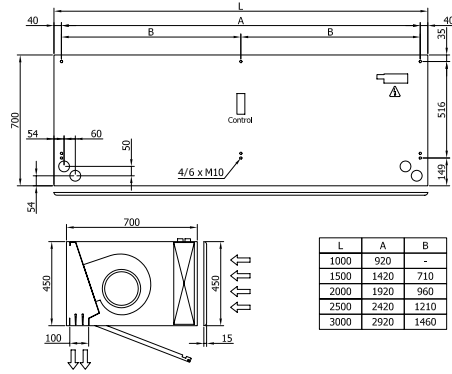
Model	Airflow m <sup>3</sup> /h	Heating Capacity	Water Drop Pressure	Water Connection	Heating Capacity	Water Drop Pressure	Water Connection	Electrical Heating Capacity	Fans Power	Fans Current	Noise Level (5 m)	Weight kg
		80/60°C kW	80/60°C Pa	80/60°C	60/40°C kW	60/40°C Pa	60/40°C	3x400V-50Hz kW	230V-50Hz kW	230V-50Hz A	dB(A)	
L 1000 P	4400	24,40	1980	2x1"	18,17	2650	2x1"	-	0,9	4	56	69
L 1000 E	4800	-	-	-	-	-	-	10/15/25	0,9	4	56	70
L 1000 A	4800	-	-	-	-	-	-	-	0,9	4	56	56
L 1500 P	6600	41,00	1050	2x1"	28,75	3330	2x1"	-	1,35	6	57	94
L 1500 E	7200	-	-	-	-	-	-	15/22,5/37,5	1,35	6	57	99
L 1500 A	7200	-	-	-	-	-	-	-	1,35	6	57	79
L 2000 P	8800	55,70	2660	2x1 1/4"	39,54	3860	2x1 1/4"	-	1,8	8	59	121
L 2000 E	9600	-	-	-	-	-	-	20/30/50	1,8	8	59	127
L 2000 A	9600	-	-	-	-	-	-	-	1,8	8	59	102
L 2500 P	11000	70,20	5440	2x1 1/4"	50,53	5050	2x1 1/4"	-	2,25	10	61	151
L 2500 E	12000	-	-	-	-	-	-	24/36/60	2,25	10	61	159
L 2500 A	12000	-	-	-	-	-	-	-	2,25	10	61	125
L 3000 P	13200	83,50	9600	2x1 1/2"	63,01	9370	2x1 1/2"	-	2,7	12	62	181
L 3000 E	14400	-	-	-	-	-	-	24/36/60	2,7	12	62	188
L 3000 A	14400	-	-	-	-	-	-	-	2,7	12	62	148
XL 1000 P	6400	28,02	2540	2x1"	22,77	3960	2x1"	-	2,20	9,56	59	94
XL 1000 E	7000	-	-	-	-	-	-	10/15/25	2,20	9,56	59	95
XL 1000 E37	7000	-	-	-	-	-	-	15/22,5/37,5	2,20	9,56	59	95
XL 1000 A	7000	-	-	-	-	-	-	-	2,20	9,56	59	81
XL 1500 P	9600	42,69	1380	2x1"	36,43	5200	2x1"	-	3,30	14,64	60	125
XL 1500 E	10500	-	-	-	-	-	-	15/22,5/37,5	3,30	14,34	60	130
XL 1500 E50	10500	-	-	-	-	-	-	20/30/50	3,30	14,34	60	130
XL 1500 A	10500	-	-	-	-	-	-	-	3,30	14,34	60	110
XL 2000 P	12800	60,87	3570	2x1 1/4"	50,02	5960	2x1 1/4"	-	4,40	19,12	63	156
XL 2000 E	14000	-	-	-	-	-	-	20/30/50	4,40	19,12	63	162
XL 2000 E60	14000	-	-	-	-	-	-	24/36/60	4,40	19,12	63	162
XL 2000 A	14000	-	-	-	-	-	-	-	4,40	19,12	63	137
XL 2500 P	16000	78,75	7240	2x1 1/4"	63,77	7700	2x1 1/4"	-	5,50	23,90	64	191
XL 2500 E	17500	-	-	-	-	-	-	24/36/60	5,50	23,90	64	199
XL 2500 E74	17500	-	-	-	-	-	-	27,8/46,4/74,2	5,50	23,90	64	199
XL 2500 A	17500	-	-	-	-	-	-	-	5,50	23,90	64	166
XL 3000 P	19200	96,89	12880	2x1 1/2"	79,24	14020	2x1 1/2"	-	6,60	28,68	66	227
XL 3000 E	21000	-	-	-	-	-	-	24/36/60	6,60	28,68	66	234
XL 3000 E93	21000	-	-	-	-	-	-	34,8/58,2/93	6,60	28,68	66	234
XL 3000 A	21000	-	-	-	-	-	-	-	6,60	28,68	66	194



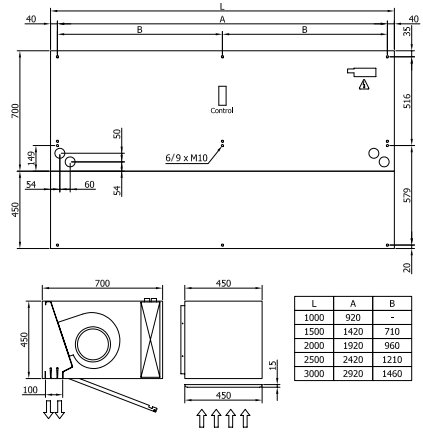
Layouts and dimensions



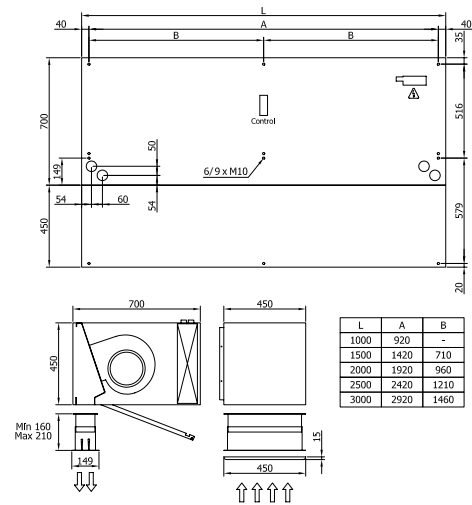
Free hanging mounting



Inside ceiling surface mounting



False ceiling invisible mounting



Grille Finishes

Industrial



Decorative




**Characteristics**

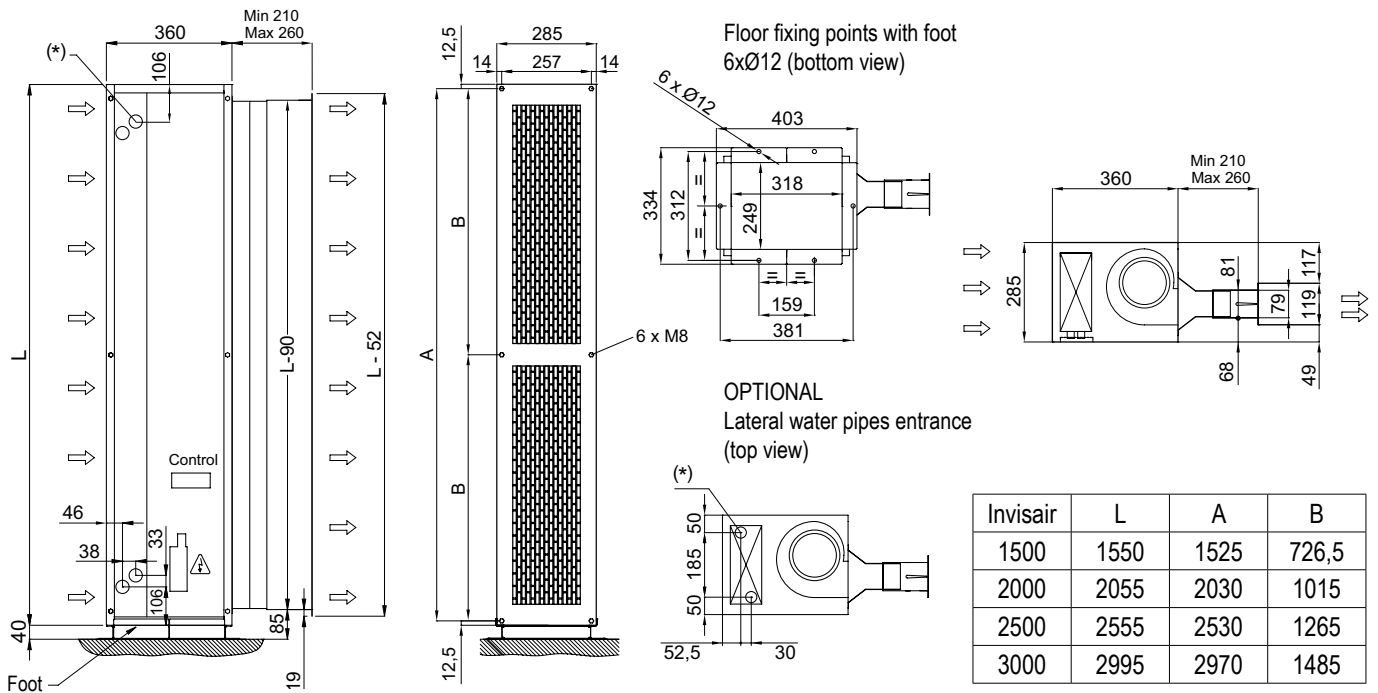

- Specially designed for applications where the body of the air curtain is to be installed inside a column or bulkhead for architectural reasons. It can be vertically or horizontally mounted.
- Invisair air intake and discharge grille are in the same plane so that the air flow through the unit is in a straight line. Intake into the bulkhead or column should be by a suitable grille provided by others.
- Two anodised aluminium adjustable lamellas, airfoil shaped, so that air discharge direction can be adjusted to 0 – 15 degrees either side.
- Structure made of galvanised plated steel finished in structural epoxy-polyester white RAL 9016 as standard. Other colours are available on request.
- Low noise centrifugal double-inlet fans with external rotor motors, with built-in thermal protection contact, provided with 5-speed selection.
- “P” type includes water heated coil (2x3/4”).  
“E” type includes electrical element shielded element, 3 power stages with power switches included.  
“A” type is unheated, air only.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m <sup>3</sup> /h	Heating Capacity 80/60°C kW	Water Drop Pressure 80/60°C Pa	Heating Capacity 60/40°C kW	Water Drop Pressure 60/40°C Pa	Heating Capacity 50/40°C kW	Water Drop Pressure 50/40°C Pa	Electrical Heating Capacity 3x400V-50Hz kW	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
IM 1500 P	2500	16,14	700	13,28	6390	13,54	4300	-	0,744	3,36	55	63
IM 1500 E	2600	-	-	-	-	-	-	4/8/12	0,744	3,36	55	67
IM 1500 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	55
IM 2000 P	3750	24,22	2020	19,11	5140	19,38	2330	-	1,116	5,04	56	78
IM 2000 E	3900	-	-	-	-	-	-	6/12/18	1,116	5,04	56	86
IM 2000 A	3900	-	-	-	-	-	-	-	1,116	5,04	56	68
IM 2500 P	4375	28,66	3750	22,80	3930	23,85	4210	-	1,302	5,88	57	86
IM 2500 E	4550	-	-	-	-	-	-	6/12/18	1,302	5,88	57	93
IM 2500 A	4550	-	-	-	-	-	-	-	1,302	5,88	57	73
IM 3000 P	5000	34,08	6220	27,23	6510	28,12	5620	-	1,488	6,72	58	99
IM 3000 E	5200	-	-	-	-	-	-	8/16/24	1,488	6,72	58	107
IM 3000 A	5200	-	-	-	-	-	-	-	1,488	6,72	58	84
IG 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	69
IG 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	73
IG 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	60
IG 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	89
IG 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	96
IG 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	78
IG 2500 P	6300	36,03	5700	28,94	6020	30,58	6520	-	1,785	7,77	58	94
IG 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	103
IG 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	83
IG 3000 P	7200	42,94	9540	34,63	10100	36,20	8850	-	2,040	8,88	59	107
IG 3000 E	7400	-	-	-	-	-	-	10/20/30	2,040	8,88	59	117
IG 3000 A	7400	-	-	-	-	-	-	-	2,040	8,88	59	94



Layouts and dimensions



(\*) IN/OUT Water pipes connection (in water heated units)

Installation examples





**Characteristics**



- Specially designed to be installed in all type of revolving doors. Two possible layouts, tailored dimensions.
- Structure made of galvanised plated steel, finished in structural epoxy-polyester white RAL 9016 as standard. Other colours are available on request.
- Double-inlet centrifugal fans driven by external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- Perforated inlet grille with filter functions and easy service. It does not need prefilter.
- “P” type includes water heated coil (2x3/4”).  
“E” type includes electrical shielded element, 3 power stages with power switches included.  
“A” type is without heating, air only.
- Circular anodised aluminium outlet vanes, airfoil shaped.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m3/h	Heating Capacity 80/60°C		Water Drop Pressure 80/60°C		Heating Capacity 60/40°C		Water Drop Pressure 60/40°C		Electrical Heating Capacity 3x400V-50Hz		Fans Power 230V-50Hz	Fans Current 230V-50Hz	Noise Level (5 m)	Weight kg
		kW	Pa	kW	Pa	kW	Pa	kW	kW	A	dB(A)				
ROTO M 1000 P	1875	10,52	890	9,04	4450	8,87	1310	-	0,558	2,52	54	-			
ROTO M 1000 E	1950	-	-	-	-	-	-	3/6/9	0,558	2,52	54	-			
ROTO M 1000 A	1950	-	-	-	-	-	-	-	0,558	2,52	54	-			
ROTO M 1500 P	2500	16,14	700	13,28	6390	13,54	4300	-	0,744	3,36	55	-			
ROTO M 1500 E	2600	-	-	-	-	-	-	4/8/12	0,744	3,36	55	-			
ROTO M 1500 A	2600	-	-	-	-	-	-	-	0,744	3,36	55	-			
ROTO M 2000 P	3750	24,22	2020	19,11	5140	19,38	2330	-	1,116	5,04	56	-			
ROTO M 2000 E	3900	-	-	-	-	-	-	6/12/18	1,116	5,04	56	-			
ROTO M 2000 A	3900	-	-	-	-	-	-	-	1,116	5,04	56	-			
ROTO M 2500 P	4375	28,66	3750	22,80	3930	23,85	4210	-	1,302	5,88	57	-			
ROTO M 2500 E	4550	-	-	-	-	-	-	6/12/18	1,302	5,88	57	-			
ROTO M 2500 A	4550	-	-	-	-	-	-	-	1,302	5,88	57	-			
ROTO G 1000 P	2700	13,10	1300	11,31	6850	11,29	2020	-	0,765	3,33	55	-			
ROTO G 1000 E	2775	-	-	-	-	-	-	5/10/15	0,765	3,33	55	-			
ROTO G 1000 A	2775	-	-	-	-	-	-	-	0,765	3,33	55	-			
ROTO G 1500 P	3600	20,30	1050	16,72	9410	17,39	6770	-	1,020	4,44	56	-			
ROTO G 1500 E	3700	-	-	-	-	-	-	7,5/15/22,5	1,020	4,44	56	-			
ROTO G 1500 A	3700	-	-	-	-	-	-	-	1,020	4,44	56	-			
ROTO G 2000 P	5400	30,40	3320	24,18	7860	24,71	3540	-	1,530	6,66	57	-			
ROTO G 2000 E	5550	-	-	-	-	-	-	10/20/30	1,530	6,66	57	-			
ROTO G 2000 A	5550	-	-	-	-	-	-	-	1,530	6,66	57	-			
ROTO G 2500 P	6300	36,03	5700	28,94	6020	30,58	6520	-	1,785	7,77	58	-			
ROTO G 2500 E	6475	-	-	-	-	-	-	10/20/30	1,785	7,77	58	-			
ROTO G 2500 A	6475	-	-	-	-	-	-	-	1,785	7,77	58	-			

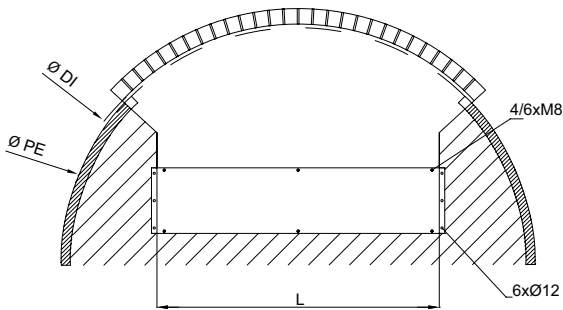
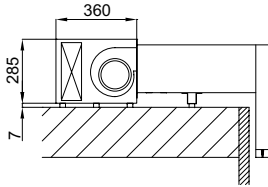




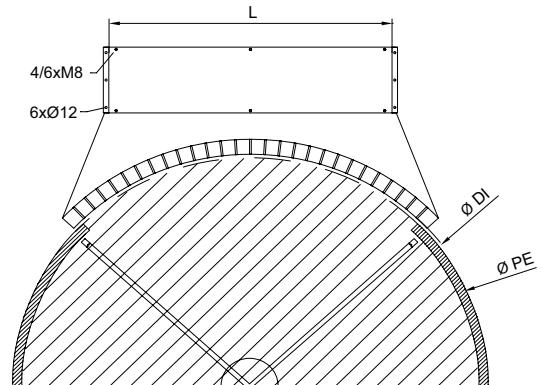
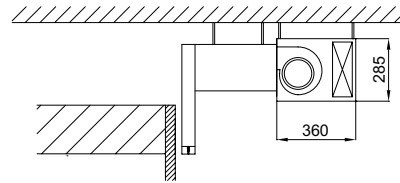
Layouts and dimensions

RotoWind air curtains are tailor-made for any kind of revolving door according to the following layouts:

On top mounting



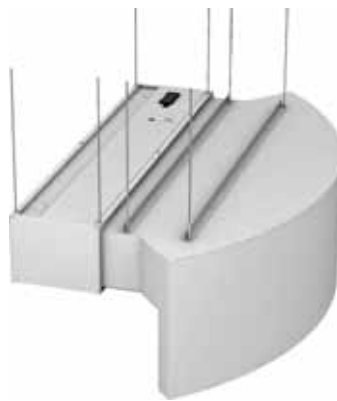
False ceiling mounting



Fixation system



Fixed onto the door



Hanging from the ceiling

Optional decorative front cover



1. RAL 9016 standard
2. Colour from RAL palette
3. Stainless Steel AISI 304



Characteristics

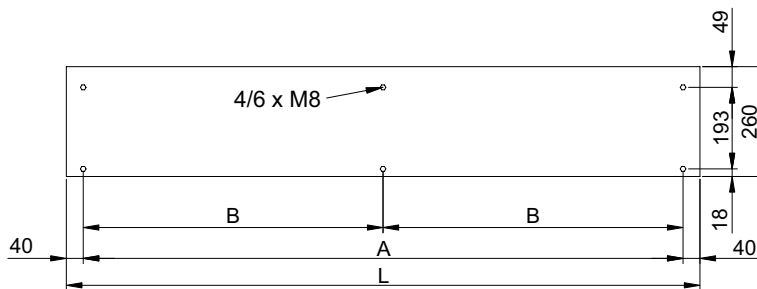
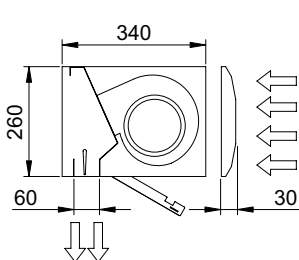


- Specially designed to be installed on doors of cold stores and freezers.
- Self-supporting casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Double-inlet centrifugal fans driven by external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- Also available with flat micro-perforated inlet grille, more elegant, for commercial doors where heating is not needed.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

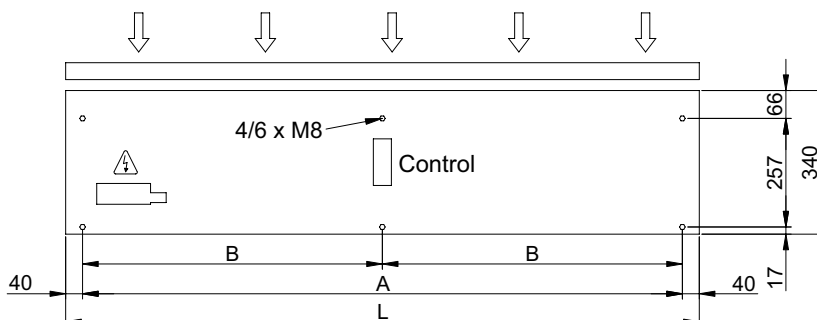
Specifications

Model	Airflow m3/h	Without heating Air only	Fans power Input 230V-50Hz kW	Fans Current 230V-50Hz A	Noise level (5 m) dB(A)	Weight kg
KS 1000 A	1300	-	0,372	1,68	53	29
KS 1500 A	1950	-	0,558	2,52	54	44
KS 2000 A	2600	-	0,744	3,36	55	53
KS 2500 A	3250	-	0,930	4,20	56	58
KS 3000 A	3900	-	1,116	5,04	57	63
KM 1000 A	1850	-	0,510	2,22	54	29
KM 1500 A	2775	-	0,765	3,33	55	44
KM 2000 A	3700	-	1,020	4,44	56	53
KM 2500 A	4625	-	1,275	5,55	57	58
KM 3000 A	5550	-	1,530	6,66	58	63
KG 1000 A	2775	-	0,765	3,33	55	33
KG 1500 A	3700	-	1,020	4,44	56	49
KG 2000 A	5550	-	1,530	6,66	57	63
KG 2500 A	6475	-	1,785	7,77	58	68
KG 3000 A	7400	-	2,040	8,88	59	73

Dimensions



L	A	B
1000	920	-
1500	1420	710
2000	1920	960
2500	2420	1210
3000	2920	1460





**Characteristics**

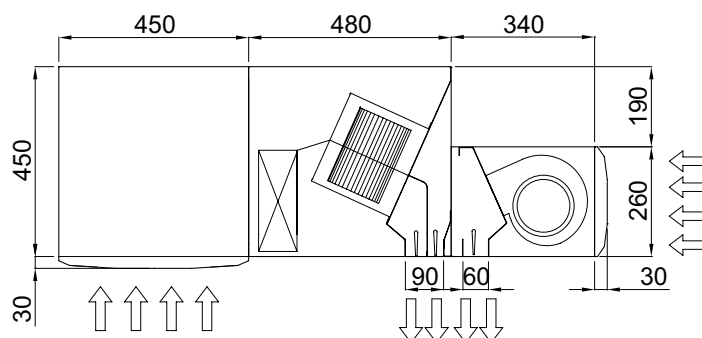


- Specially designed to be installed on big doors of industrial cold stores and freezers.
- System composed by two air curtains: special Duojet with plenum and Kool. The result is a combination system of 3 jets at different temperatures and different speeds.
- Structure support with lateral walls to cover 100% of the opening with 3 jets should be provided by others.
- High efficiency barrier against big amount of thermal losses due to a big temperature difference (shorter payback).
- Avoid mist and ice, decreasing risk of accidents.
- Casing construction made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet IP 55 centrifugal fans driven by external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- Includes electrical shielded element, 3 power stages with power switches included.
- Electronics and controllers IP65. Duojet with Automatic Total Control and Kool with Air Only control, both with telephone cable Plug & Play. Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m3/h	Fans Power 230V-50Hz kW	Fans Current 230V-50Hz A	Electrical Heating Capacity 3x400V-50Hz kW	Noise level (5 m) dB(A)	Weight kg
TRIO 1500	8325	2,29	9,99	4/8/12	60	182
TRIO 2000	12025	3,31	14,43	6/12/18	61	234
TRIO 2500	14800	4,08	17,76	6/12/18	62	275

**Dimensions**





**Characteristics**

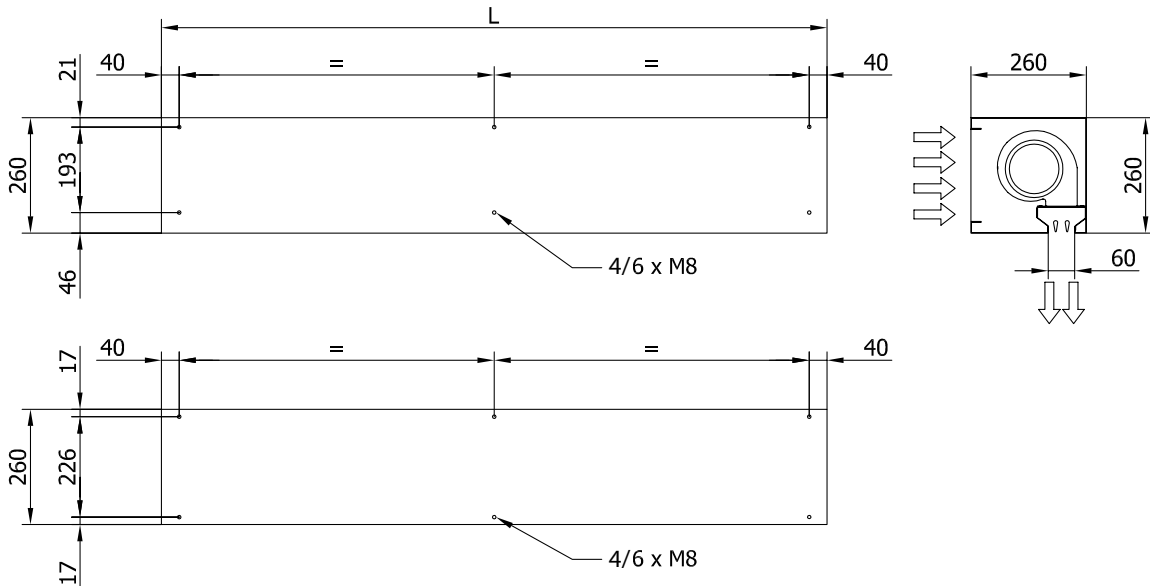


- High pressure and small dimensions air curtains.
- Self-supporting casing construction made of zinc plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Double-inlet centrifugal fans with external rotor motors, with built-in thermal protection contact, provided by 5-speed selection. Very low noise level.
- Perforated inlet grille of big surface to reduce the energy loss at minimum. It does not need maintenance.
- All models are without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play), included. Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m3/h	Without heating Air only	Fans power 230V-50Hz kW	Fans current 230V-50Hz A	Noise level (5 m) dB(A)	Weight kg
COM 1000	1860	-	0,62	3,30	52	21
COM 1500	2480	-	0,83	4,40	53	32
COM 2000	3720	-	1,24	6,60	54	43
COM 2500	4340	-	1,45	7,70	55	55

**Dimensions**



	L
COM 1000	1000
COM 1500	1500
COM 2000	2000
COM 2500	2500



## Characteristics

### VP (with profiles)



### VW (windbox construction)



- Designed to be tailor-made, adaptable to any customer's needs.
- Option VP: Structure made of aluminium profiles and galvanised plated steel panels, finished white RAL 9016 as standard. Other colours are available on request. VP construction allow the service from the top and the bottom.
- Option VW: Self-supporting casing construction as Windbox SMG, made of galvanised plated steel, finished in structural epoxy-polyester RAL 9016 as standard. Other colours or stainless steel construction are available on request.
- Double-inlet centrifugal fans driven by external rotor motors, with built-in thermal protection contact, provided with 5-speed selection. Very low noise level.
- "P" type includes water heated coil. "E" type includes electrical shielded element, 3 power stages with power switches included. "A" type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared remote control IR included. 7m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

## Specifications

The performance of Variwind air curtains is the same as Windbox S,M,G.

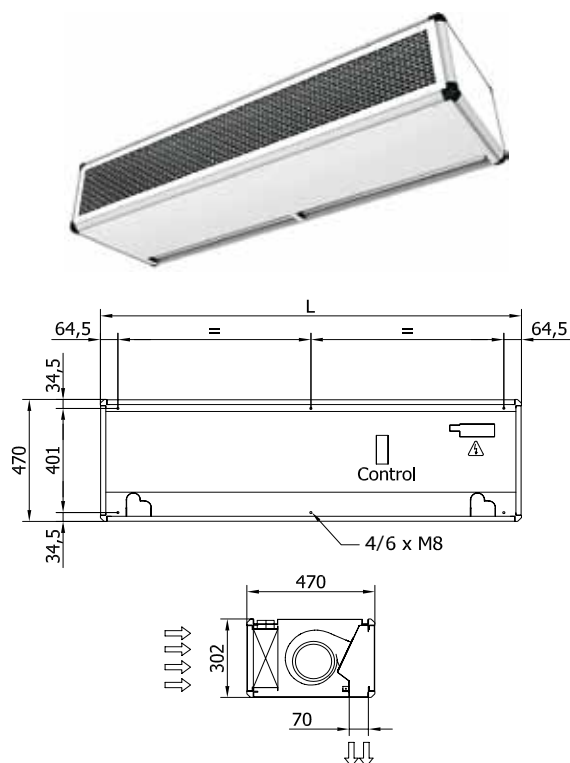
It has S, M and G types from 1000 to 3000 mm length. It's available unheated, water heated, electrical heated or with heat pump.

## Layouts and dimensions

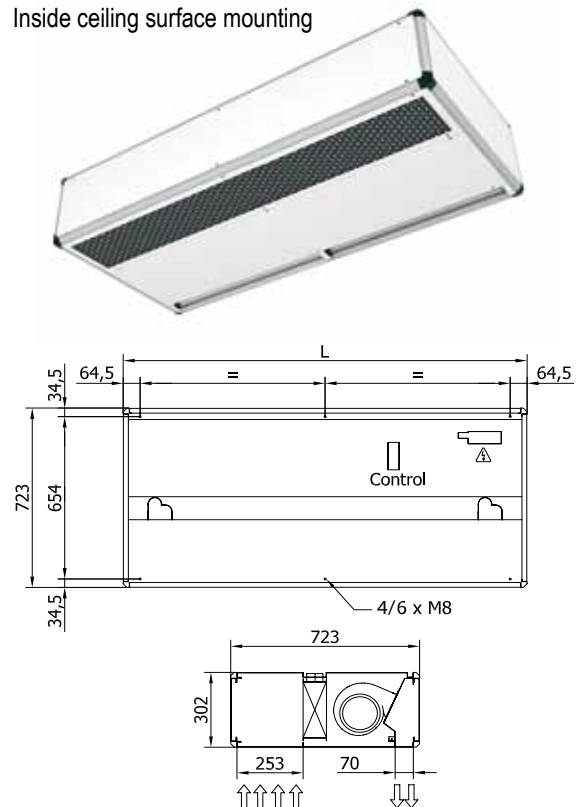
VariWind air curtains can be tailor-made at the request of the customers in any length from 1045 mm to 3000 mm.

	Standard L (mm)	Customised L (mm)
Variwind 1000	1045	1045-1544
Variwind 1500	1545	1545-2049
Variwind 2000	2050	2050-2549
Variwind 2500	2550	2550-3000

### Free hanging mounting



### Inside ceiling surface mounting





**Characteristics**

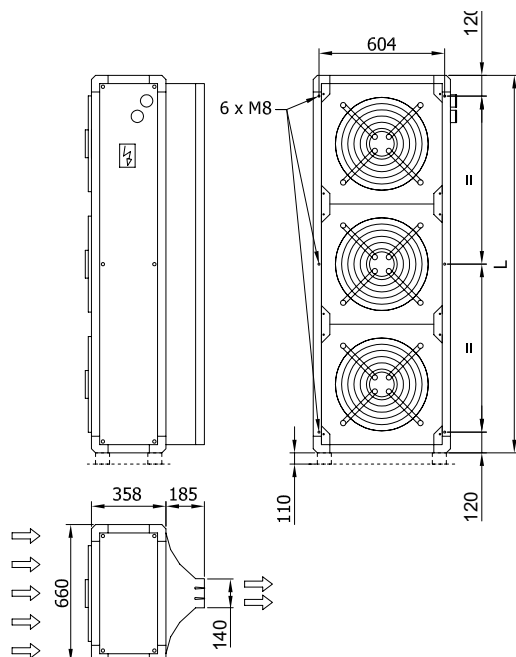


- Usually installed in vertical position but can be mounted horizontally on industrial doors.
- Heavy casing made of double chamber, aluminium profiles and galvanised plated steel panels, finished white RAL 9016 as standard. Other colours are available on request.
- Axial fans driven by an external rotor motor with built-in thermal contact protection. Provided with 5-speed selection. Extremely low noise. Maintenance free.
- “P” type includes water heated coil. “E” type includes electrical shielded element, 3 power stages. “A” type is without heating, air only.
- Anodised aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Control panel and infrared control IR included. 10m of telephone cable with fast connectors type RJ45 (Plug & Play). Optional: Interface to connect to BMS.

**Specifications**

Model	Airflow m <sup>3</sup> /h	Water heating capacity 80/60°C		Water drop pressure 80/60°C Pa	Water connections 80/60°C	Water heating capacity 60/40°C		Water drop pressure 60/40°C Pa	Water connections 60/40°C	Electrical heating capacity 3x400V-50Hz		Fans power 230V-50Hz kW	Fans current 230V-50Hz A	Noise level (5 m) dB(A)	Weight kg
		kW	kW			kW	kW								
MAX 2 P	7000	40,70	330	2x1¼"	34,20	7810	2x1¼"	-	0,68	2,96	59	75			
MAX 2 E	8000	-	-	-	-	-	-	13,7/22,9/36,6	0,68	2,96	59	74			
MAX 2 A	8000	-	-	-	-	-	-	-	0,68	2,96	59	59			
MAX 3 P	10500	61,00	1280	2x1¼"	53,10	11400	2x1¼"	-	1,02	4,44	61	102			
MAX 3 E	12000	-	-	-	-	-	-	20,7/34,7/55,4	1,02	4,44	61	100			
MAX 3 A	12000	-	-	-	-	-	-	-	1,02	4,44	61	79			
MAX 4 P	14000	85,90	3300	2x1¼"	74,20	9230	2x1¼"	-	1,36	5,92	62	135			
MAX 4 E	16000	-	-	-	-	-	-	27,8/46,4/74,2	1,36	5,92	62	133			
MAX 4 A	16000	-	-	-	-	-	-	-	1,36	5,92	62	103			
MAX 5 P	17500	108,00	6640	2x1¼"	93,00	18430	2x1¼"	-	1,70	7,40	64	162			
MAX 5 E	20000	-	-	-	-	-	-	34,8/58,2/93	1,70	7,40	64	159			
MAX 5 A	20000	-	-	-	-	-	-	-	1,70	7,40	64	124			
MAX 6 P	21000	127,00	11270	2x1¼"	104	3610	2x1¼"	-	2,04	8,88	65	189			
MAX 6 E	24000	-	-	-	-	-	-	consult	2,04	8,88	65	186			
MAX 6 A	24000	-	-	-	-	-	-	-	2,04	8,88	65	151			

**Dimensions**



	L
MAX 2	1234
MAX 3	1811
MAX 4	2388
MAX 5	2965
MAX 6	3542



Correction factors for water temperatures (S, M, G, L, XL)

The technical data tables give the nominal heat capacity for warm water coils supplied with water at 80/60°C, 60/40°C and 50/40°C with the air inlet temperature at 15°C, 18°C and 20°C.

These tables supply the corresponding factors for calculating the heat capacity with different air and water inlet temperatures.

Water			Air Inlet Temperature			Water			Air Inlet Temperature			
Coil	Difference	Temperatures	15°C	18°C	20°C	Coil	Difference	Temperatures	15°C	18°C	20°C	
80/60 2 rows	20°C	100/80	1,58	1,53	1,46	50/40 4 rows	20°C	100/80	3,26	3,11	3,01	
		90/70	1,35	1,27	1,22			90/70	2,79	2,64	2,54	
		80/60	1,11	1,04	1,00			80/60	2,32	2,17	2,07	
		70/50	0,89	0,82	0,78			70/50	1,83	1,69	1,59	
		60/40	0,66	0,59	0,54			60/40	1,35	1,21	1,11	
		55/35	0,54	0,47	0,42			50/30	0,85	0,68	0,58	
	15°C	100/85	1,72	1,64	1,59	15°C	80/65	2,47	2,34	2,24		
		90/75	1,47	1,40	1,35		70/55	2,01	1,86	1,77		
		80/65	1,22	1,14	1,09		60/45	1,53	1,39	1,30		
		70/55	0,97	0,90	0,86		50/35	1,05	0,91	0,83		
		60/45	0,73	0,66	0,61		60/45	0,73	0,66	0,61		
		50/35	0,48	0,40	0,35		10°C	60/50	1,71	1,57	1,47	
	10°C	80/70	-	1,28	1,20	50/40		1,24	1,10	1,01		
		70/60	1,09	1,02	0,97	40/30		0,77	0,62	0,53		
		60/50	0,84	0,77	0,72							
		50/40	0,59	0,52	0,48							
	60/40 3 rows	20°C	100/80	2,86	2,71	2,62						
			90/70	2,45	2,30	2,21						
80/60			2,03	1,89	1,81							
70/50			1,61	1,48	1,40							
60/40			1,21	1,08	1,00							
50/30			0,80	0,67	0,59							
15°C		60/45	-	1,22	1,14							
		50/35	0,94	0,82	0,75							
10°C		40/30	0,69	0,57	0,49							
		40/30	0,77	0,62	0,53							

Example of heat capacity calculation:

Model M 2000 P 80/60°C  
 Air inlet temperature 15°C      Water temperature 90/70°C

HEAT CAPACITY	=	Nominal Power (23,6 kW)	x	Coefficient (1,35)	=	31,86 kW
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Two ranges of control panels, both designed for easy and quick Plug & Play connection, free of mistakes, by using a telephone cable with RJ45 connectors. The digital communication between the control panel and air curtain is a very reliable connection without

information losses even at long distances. All control panels can be turned ON/OFF externally and have internal memory (if the power supply is cut off, the unit goes back to the selected state).

## 2 Speed Range

Suitable for Optima and Recessed Optima air curtains.



**CW-2AO-NE**  
Only air and water control panel  
2 fan speed



**CE-2AO-NE**  
Electrical control panel  
2 fan speed and  
2 heating stages

## 5 Speed Range

Suitable for Windbox, Recessed Windbox, Deco, Rund, Rotowind, Variwind, Compact and Max air curtains.



**CA-5AW-NE**  
Only air control panel  
5 fan speed



**CW-5AW-NE**  
Water control panel  
5 fan speed and  
electro-valve switch



**CE-5AW-NE**  
Electrical control panel  
5 fan speed and  
3 heating stages



**D-805 Hand/Auto**  
Water control panel (Optional)  
Manual and automatic operating.  
Auxiliary functions with anti-freeze sensor, door contact and ambience thermostat.

## Common Control panels



**TD**  
Digital Thermostat  
Modifies heat stages and fan speed depending on temperature and selected program. Only for electrical units.



**Interface**  
Allows the connection to a centralized management system like BMS...



**CT – Total Control**  
Suitable for all models from Optima to Max (except Minibel).  
Auxiliary devices: anti-freeze sensor, door contact, thermostat, etc...  
Time programmer: 3 ON/OFF for each different day of the week.  
Digital display with hour, fan speed, heating stage, temperature...  
Multilanguage display 9 languages.  
Manual or automatic functioning with programmable behaviours.

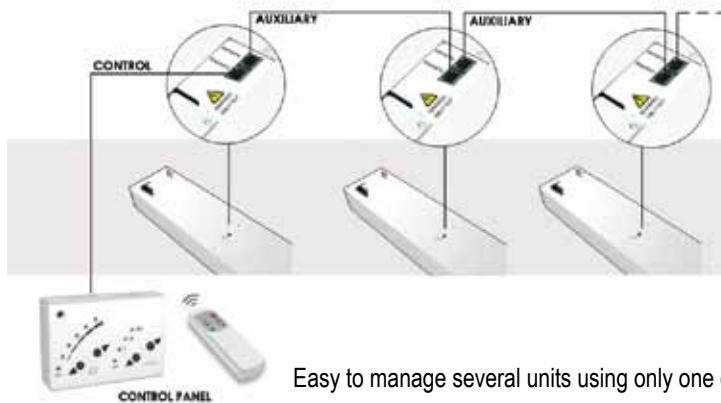


**IR Control**  
Infrared remote control.  
Available for all models except Minibel.





## Multiple air curtain connection



Easy to manage several units using only one control panel.

## Accessories

Feet, wall supports, vibration dampers...



Thermostatic valve, solenoid valve, anti-freeze sensor, door contact, ambient thermostat...



Telephone cable, extension adapter ...



## Other Options

Airtecnicos as an air curtains specialist can produce units with special requirements under request.

Here there are some of the possibilities:

- External alarm signals as: unit working, heating ON, airflow switch, dirty grille, electronic overheating signal, fans overheating TK, electrical heating blocked, etc...
- Special water or steam coils for higher temperatures or different power than standard
- Tailor made electrical heating elements at desired power and power supply
- Electrical heated air curtains from 400Vx3 to 230Vx3 or 230Vx1
- Dummies (empty air curtains) to combine with working units
- Industrial air curtains at 400Vx3 with the same advantages of electronic regulation 5 speed range
- Industrial MAX with higher volume (MAX L)
- Industrial MAX with explosion proof EX fans
- Stainless steel AISI-316 or other materials under request
- Special RAL colour with gloss or other finishes. Special BS (British Standard), Tiger Drylac, etc...
- Complete tailor made air curtain or our standard range customized according to client needs

Please consult us for further information or other options.



References



European Distributors

Airtècnics has a large experience (more than 17 years producing air curtains) and exports to more than 35 countries world-wide.

Be sure that Airtècnics or our worldwide distributors network will give you the right solution for any air curtains application.

Find more information and our distributors list in our specialized websites



- Bulgar [www.vazdushnzavesi.com](http://www.vazdushnzavesi.com)
- Catalan [www.cortinesaire.com](http://www.cortinesaire.com)
- Czech [www.vzduchoveclony.com](http://www.vzduchoveclony.com)
- Danish [www.lufttaepper.com](http://www.lufttaepper.com)
- Dutch [www.luchtgardijnen.com](http://www.luchtgardijnen.com)
- English [www.aircurtains.es](http://www.aircurtains.es)
- Finnish [www.ilmaverho.com](http://www.ilmaverho.com)
- French [www.rideauxdair.com](http://www.rideauxdair.com)
- German [www.luftscheieranlagen.net](http://www.luftscheieranlagen.net)
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- Spanish [www.cortinasdeaire.es](http://www.cortinasdeaire.es)
- Swedish [www.luftridaer.com](http://www.luftridaer.com)
- Turkish [www.havaperdeleri.eu](http://www.havaperdeleri.eu)



**Optima**  
Installation in a shopping center



**Recessed Windbox**  
Designed to be installed in a false ceiling



**ZEN**  
Exclusive design and custom finishes



**Windbox**  
Free hanging in a big mall



**Rotowind**  
Tailor-made for any revolving door



**Invisair**  
Invisible inbuild Column or bulkhead air curtain



**Rund**  
Vertical Stainless Steel design air curtain



**Max**  
Multiple towers on large industrial doors



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