AIR CURTAINS FOR CLIMATE SEPARATION

Catalogue

airtècnics North America

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AIRTÈCNICS

Founded in 1986 and placed in Castellar del Vallès (Barcelona), Airtècnics has a large experience producing air curtains, air handling units, fan boxes, fan filter units, axial fans, centrifugal fans and other special and OEM equipment.

We export our products to more than 45 countries worldwide. Besides our own production, Airtècnics distributes a wide range of HVAC products, mostly produced by Rosenberg Group companies.

For decades, Airtècnics has been incorporating and innovating in technology for the production of air curtains, ventilation units, air purification devices and the rest of products of its catalogue.

Airtècnics headquarters in Castellar del Vallès (Spain)

Nowadays, we innovate in products that respond to the environmental hygiene needs that society is facing.

Loyal to our commitments regarding our customers, our products fulfill the highest standards of quality criteria.

We are proud of our highly qualified team composed by master engineers, designers, specialized technicians and skilled professionals, ready to assist you in any questions you may have in design, installation or service maintenance requirements.

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

- **Air curtains market leading**
- **Producing +35 years**
- **Exporting +45 countries**
- **Catalogue +20 languages**
- **Experimented R+D+i**
- **Continuous improving**
- **Complete range, all applications**
- **University knowledge collaboration**

The Rosenberg Group

Airtècnics is from 1993 fully integrated in the Rosenberg Group, an organization specializing in the design, manufacturing and distribution of equipments and components of ventilation and air conditioning with factories, subsidiaries and agencies in more than 50 countries.

Founded in 1981, currently with a total of 1.700 employees, 13 production sites on all continents, as well as 4 development centres. Rosenberg develops, produces and distributes its products worldwide.

Through a combination of human knowhow and innovative production technology Rosenberg products achieve a quality that meets the highest requirements.

rosenberg ECOFIT ETRI
THE AIR MOVEMENT GROUP

Rosenberg headquarters in Künzelsau (Germany)

BENEFITS OF AIR CURTAINS

Advantages of installing an air curtain

Energy saving

- Reduces the energy losses from the premises
- Reduces the running cost of the building
- Reduce central plant capacity (heating/cooling)
- Reduces the CO2 emission

Hygienic and healthy atmosphere

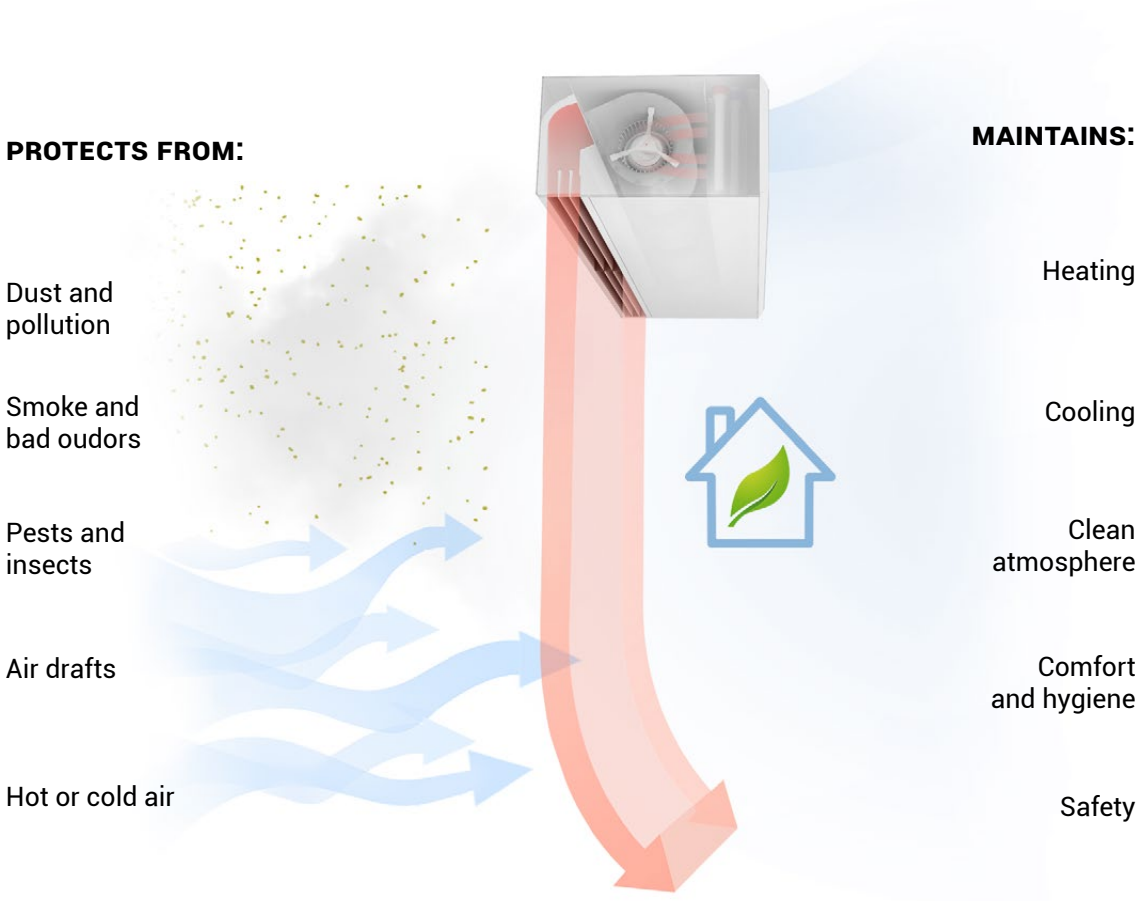
- Helps maintain adequate enviroment
- Increases customers and staff comfort
- Pest and insect control
- Barrier against dust, pollution, fumes and bad odours

Commercial profitability

- Sales increase due to the “open door effect”
- Doorway acts as a showcase window
- Easy access for people using wheelchair, strollers or umbrellas
- Increases usable space available on entrances

Increased safety

- Increase visibility and avoid obstacles
- Easy evacuation through the exit doorway
- In cold rooms reduce misting, and prevents ice forming
- Act as a barrier against fire smoke (special application)



AIRTÈCNICS AIR CURTAINS

Air curtains range

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

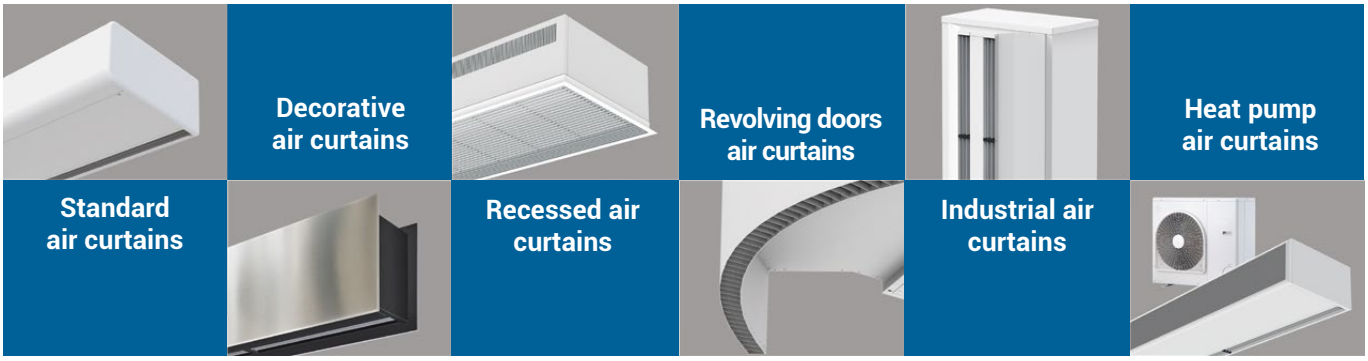
Airtècnics air curtains create an air stream layer over the doorway and act as an invisible barrier which efficiently divides the inside environment from the outside one. Therefore, it substantially reduces heating and cooling costs up to 80%, while increasing employees and clients comfort.

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 pressure, 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.



Characteristics

Wide range: Whatever your application, we have an air curtain to suit it.

Control and regulation: Controls with attractive design and compact dimensions. Basic or sophisticated remote controls with manual or automatic functioning for energy saving applications. BMS interface. Controls can operate with devices as door contact, room thermostat, valves, anti-freezing sensor, etc.

Elegant and compact: Commercial models or decorative air curtains easy to match with any architectural interiors.

Finishes: Painted in any colour, different materials (stainless steel, wood, aluminium, etc.), different inlet grilles, etc.

Customization: Offer the possibility to brand an entrance with corporate logos or slogans, insert signs, clocks, lights, etc.

Low noise level: Our units offer a low noise level with higher performance. We use high quality fans and motors together with adequate regulation, specific geometry, etc.

Easy and quick installation: Minimum installation time with external Plug & Play connections. Threaded nuts assembled on the unit for easy fixing.

Reduced maintenance: Only regular cleaning.

Quality: 100% of the air curtains are tested and verified. Our products are marked CE, in compliance with the directives and applicable regulations.

Selection app: Airtècnics has developed exclusive software to help you select the right air curtain according to the specific characteristics and location of the installation.

Online calculator: Estimates the energy and economic savings resulting from the use of an efficient air curtain in a door.

Short delivery time: Our big stock of components allows us to guarantee a reduced delivery time for our standard products. Our flexible structure gives us the possibility to help our client on urgent projects.

SELECTION CRITERIA

Air curtains selection criteria

First and foremost, air curtains are designed to prevent a climate area (heated or cooled) from the influx of outside air through an open doorway. The air curtains reduce energy costs by keeping heated or cooled air in the internal building atmosphere. Efficient air curtains will save up to 80% energy looses across a doorway compared with a door without air curtain.

During winter an air curtain creates a barrier that keeps out the cold air, while in summer the air stream keeps out the hot air from outside. Bearing in mind the energy saved, the average payback time for an air curtain is between 1 and 5 years depending on usage and climate conditions.

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

- The height of the installation measured from the air curtain discharge outlet 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 facade.
- If the building has several stores connected by escalators.
- Pressure differences between the inside and outside of the building.
- Door characteristics: Always opened, 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.

The selection of a wrong unit means the air jet won't reach the floor and the separation of two adjacent areas will disappear. Then all heated/cooled air will cross the doorway and energy savings and all other advantages will be lost.
That makes it so, when factoring in heating costs, buying a cheap but inadequate model can cost more than buying a more expensive but optimal one. Another important point is customer satisfaction. For both business owners, workers and clients, a good air curtain is one that works well and achieves all the benefits listed in the previous sections.

For those reasons, it is important to choose an optimal air curtain, with the right specifications for the application.
The following section, as well as a selection program in Airtècnics' website, will help you chose the right air curtain for you.

MODEL	FANS TYPE	HEIGHT RANGE	HEATING A	E	P	COMMON APPLICATIONS
Windbox **Recessed Windbox** **Dam** **Recessed Dam** **Invisair **** **Smart** **Zen **** **Rund **** **Rotowind **** **Kool** **Recessed Compact**	M G ECG	8,2 - 11,5 ft 9,8 - 13,1 ft 9,8 - 13,8 ft	• • • (*) (*)	• • •	• • •	Medium and large sized commercial doors with a high pedestrian flow. Climate separation and protection against dust, fumes, and pollutants. Isolation and sealing of smoking areas. Multiple installation and false ceiling configurations.

(A) Unheated, (E) Electric Heating, (P) Water Heating
* Exception. Kool and Recessed Compact are unheated air curtains (only air)
** Not available in M version

AIR CURTAINS MODELS

Technical Features

RAL 9016 standard

Other colors on request

Stainless steel

Range
Up to 13,8 ft

Airflow / Length
883 - 4473 cfm
3,2 ft to 9,8 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 6 - 30,5 kW
P : 25,73 - 137,65 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

WINDBOX air curtains range provide equipment suitable for all types of commercial entrances. A compact and robust air curtain from our standard range with a timeless design, ready for visible installation over the door and prepared for multiple false ceiling installation configurations. Casing painted in RAL 9016. Other colors are available on request.
This air curtain model works with low noise double-inlet centrifugal fans with external rotor motor. EC models assembled with very low consumption efficiency fans.
Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
M 1000 A	1089	0,221	1,07	54	68,3
M 1500 A	1633	0,332	1,61	55	101,4
M 2000 A	2177	0,442	2,14	56	127,9
M 2500 A	2722	0,553	2,68	57	158,7
M 3000 A	3266	0,663	3,21	58	189,6
G 1000 A	1368	0,332	1,61	56	94,8
G 1500 A	1824	0,442	2,14	57	112,4
G 2000 A	2737	0,663	3,21	58	176,4
G 2500 A	3193	0,774	3,75	59	185,2
G 3000 A	3649	0,884	4,28	60	209,4
ECG 1000 A	1589	0,319	2,79	60	94,8
ECG 1500 A	2119	0,425	3,72	61	112,4
ECG 2000 A	3178	0,638	5,58	62	176,4
ECG 2500 A	3708	0,744	6,51	63	185,2
ECG 3000 A	4237	0,851	7,44	64	209,4

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
M 1000 A	1177	0,263	1,10	55	68,3
M 1500 A	1766	0,395	1,65	56	101,4
M 2000 A	2354	0,526	2,20	57	127,9
M 2500 A	2943	0,658	2,75	58	158,7
M 3000 A	3531	0,789	3,30	59	189,6
G 1000 A	1457	0,395	1,65	57	94,8
G 1500 A	1942	0,526	2,20	58	112,4
G 2000 A	2913	0,789	3,30	59	176,4
G 2500 A	3399	0,921	3,85	60	185,2
G 3000 A	3884	1,052	4,40	61	209,4
ECG 1000 A	1677	0,381	2,94	61	94,8
ECG 1500 A	2236	0,508	3,92	62	112,4
ECG 2000 A	3354	0,762	5,88	63	176,4
ECG 2500 A	3914	0,889	6,86	64	185,2
ECG 3000 A	4473	1,016	7,84	65	209,4

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
M 1000 E	1059	2/4/6	2/4,5/6,5	2,5/5/7,5	3,5/3,5/7	0,221	1,07	54	81,6
M 1500 E	1589	3/6/9	3/6,5/9,5	3,5/7/10,5	5/5/10	0,332	1,61	55	125,7
M 2000 E	2119	4/8/12	4/8,5/12,5	4,5/9/13,5	6,5/6,5/13	0,442	2,14	56	165,3
M 2500 E	2648	5/8/13	5/10/15	5,5/11/16,5	8/8/16	0,553	2,68	57	207,2
M 3000 E	3178	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,663	3,21	58	246,9
G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	114,6
G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	138,9
G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	220,5
G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	233,7
G 3000 E	3531	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,884	4,28	60	264,6
ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	114,6
ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	138,9
ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	220,5
ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	233,7
ECG 3000 E	4237	6,5/8/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,851	7,44	64	264,6

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
M 1000 E	1148	2,5/5/7,5	3,3/6,7/10	3,7/7,3/11	3,5/7/10,5	0,263	1,10	55	81,6
M 1500 E	1721	3/6,5/9,5	4,8/9,7/14,5	5,2/10,3/15,5	5/10/15	0,395	1,65	56	125,7
M 2000 E	2295	4/8/12	6,5/13/19,5	7/14/21	6,5/13/19,5	0,526	2,20	57	165,3
M 2500 E	2869	5/8/13	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,658	2,75	58	207,2
M 3000 E	3443	6,5/8/14,5	9,3/18,7/28	10,3/20,3/30,5	9,5/19/28,5	0,789	3,30	59	246,9
G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	114,6
G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	138,9
G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	220,5
G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	233,7
G 3000 E	3766	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,052	4,40	61	264,6
ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	114,6
ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	138,9
ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	220,5
ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	233,7
ECG 3000 E	4355	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,016	7,84	65	264,6

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
M 1000 P	883	29,38	0,11	26,03	0,56	25,73	0,16	0,282	1,19	55	77,2
M 1500 P	1324	45,62	0,10	41,59	0,83	43,3	0,57	0,422	1,78	56	116,8
M 2000 P	1766	66,09	0,25	55,45	0,61	56,3	0,26	0,562	2,37	57	152,1
M 2500 P	2207	86,16	0,49	69,16	0,49	73,4	0,51	0,703	2,98	58	189,6
M 3000 P	2648	106,32	0,85	86,12	0,87	89,84	0,72	0,844	3,57	59	227,1
G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,422	1,78	55	77,2
G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,562	2,37	56	116,8
G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,844	3,57	57	152,1
G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,985	4,16	58	189,6
G 3000 P	2943	113,73	0,96	92,47	0,99	97,04	0,83	1,125	4,76	59	227,1
ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	55	77,2
ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	56	116,8
ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	57	152,1
ECG 2500 P	3502	114,78	0,82	93,77	0,85	102	0,92	0,747	6,67	58	189,6
ECG 3000 P	4002	137,68	1,35	113,15	1,41	120,79	1,22	0,854	7,63	59	227,1

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

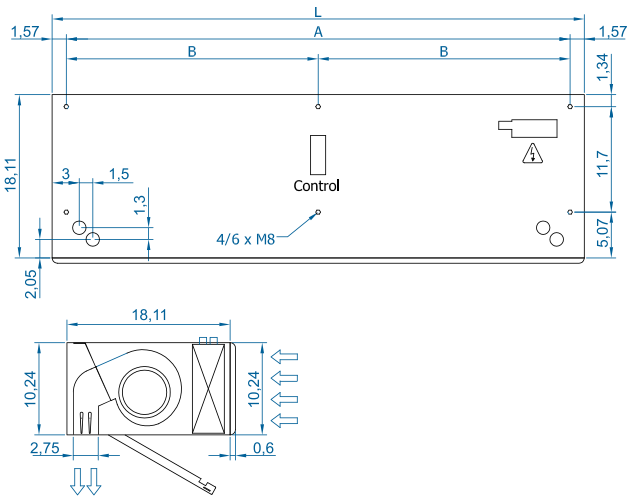
Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
M 1000 P	1059	32,89	0,14	29,34	0,70	29,34	0,20	0,335	1,22	56	77,2
M 1500 P	1589	51,22	0,12	46,95	1,03	49,41	0,72	0,502	1,83	57	116,8
M 2000 P	2119	74,15	0,31	62,65	0,76	64,28	0,33	0,669	2,44	58	152,1
M 2500 P	2648	96,67	0,60	78,17	0,61	83,8	0,65	0,837	3,06	59	189,6
M 3000 P	3178	119,36	1,05	97,31	1,08	102,6	0,91	1,004	3,67	60	227,1
G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,502	1,83	56	110,2
G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,669	2,44	57	130,1
G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	1,004	3,67	58	202,8
G 2500 P	3090	106,36	0,72	86,5	0,74	93,49	0,79	1,172	4,28	59	211,6
G 3000 P	3531	127,48	1,18	104,31	1,22	110,62	1,04	1,339	4,89	60	240,3
ECG 1000 P	1545	40,57	0,20	38,45	1,03	39,24	0,30	0,381	2,94	61	110,2
ECG 1500 P	2060	59	0,16	57,22	1,34	60,94	0,96	0,508	3,92	62	130,1
ECG 2000 P	3090	91,65	0,45	82,37	1,14	86,12	0,51	0,762	5,88	63	202,8
ECG 2500 P	3605	114,75	0,82	98,41	0,85	107,07	0,92	0,889	6,86	64	211,6
ECG 3000 P	4120	137,65	1,35	118,78	1,41	126,8	1,22	1,016	7,84	65	240,3

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

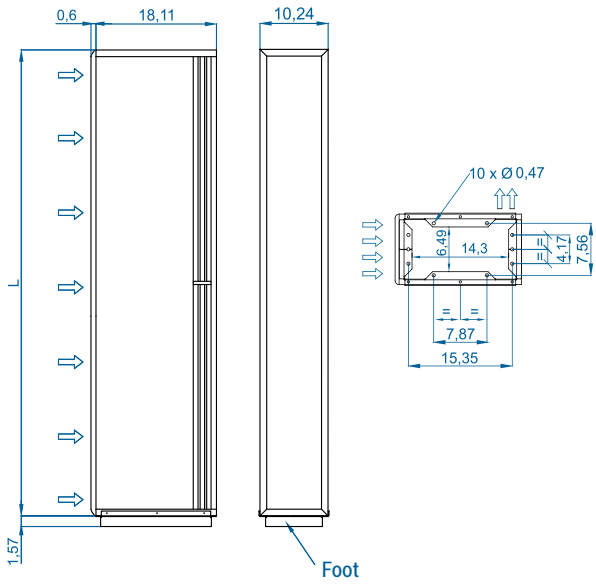
Selection program

Dimensions

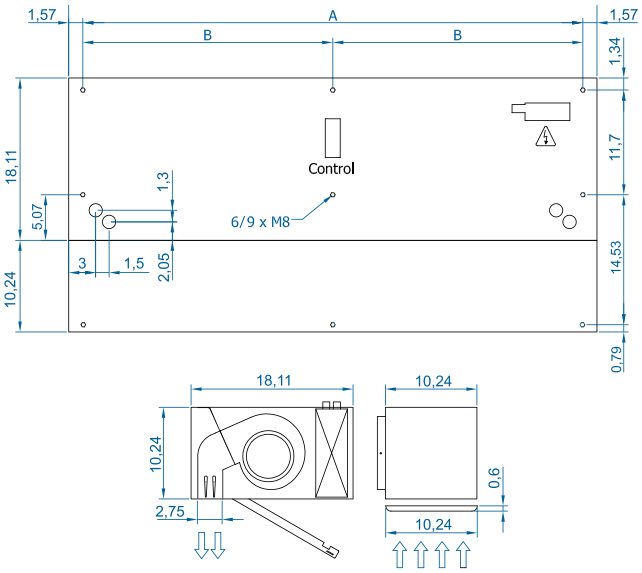
Horizontal installation



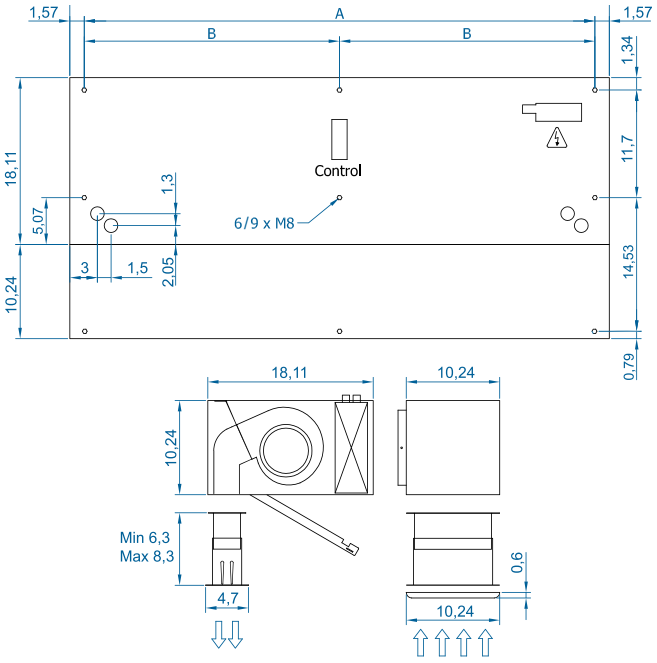
Vertical installation



Inside ceiling surface mounting



False ceiling invisible mounting



Model	L	A	B
1000	39,37	36,22	-
1500	59,06	55,91	27,95
2000	78,74	75,60	37,80
2500	98,42	95,28	47,64
3000	118,11	114,96	57,48

Customizable dimensions on request.

All dimensions in inches

CAD drawings, installation manuals and other documentation

CAD

Installation Configurations

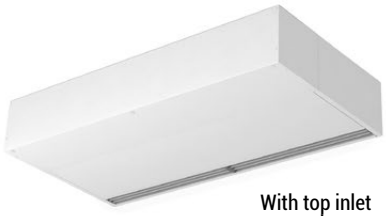

With inlet kit

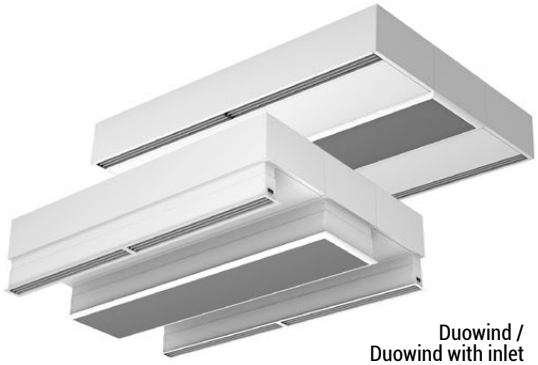

With outlet kit


With inlet and outlet kit


With plenum


With plenum and kits


With top inlet plenum


Duowind / Duowind with inlet and outlet kits


With flat inlet and outlet kits


With plenum and recessed frame accessory

Optional accessories

Supports and installation

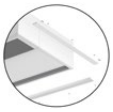

Wall rail support SPWR


Silentblock supports SPANG-SIL / SLB


Suspension cables SPCT


Foot support SPF-WINDBOX MG (Galv. / SS)


Joining kit SPJ-MG (Galv. / SS)


False Ceiling Frame Kit


Flat inlet and outlet kits


Service tray between ID and OD


Double heater

Control


IR Control
✔ Included

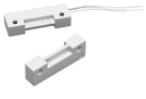

Basic Control
✔ Included


RJ45 Cable
✔ Included


Hand-Auto CH-5HW-NE


Interface kit IN-NE-II

Sensors


Magnetic door contact MAG-DC
✔ Included


Mechanical door contact MEC-DC

Technical Features

RAL 9016 standard

Other colors on request

Range
Up to 13,8 ft

Airflow / Length
853 -3914 cfm
3,2 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 6 - 30,5 kW
P : 25,08 - 116,8 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

RECESSED WINDBOX is a high pressure compact and robust air curtain from our standard range with a timeless and visually pleasing design. It is specially designed for recessed installation in false ceilings. It is a suitable air curtain for all types of commercial entrances.
Inlet grille made with aluminium profiles and blow-out nozzle, integrated in a single white frame colour RAL 9016. Other colours are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RM 1000 A	1089	0,221	1,07	54	125,7
RM 1500 A	1633	0,332	1,61	55	187,4
RM 2000 A	2177	0,442	2,14	56	240,3
RM 2500 A	2722	0,553	2,68	57	302
RG 1000 A	1368	0,332	1,61	56	134,5
RG 1500 A	1824	0,442	2,14	57	198,4
RG 2000 A	2737	0,663	3,21	58	260,1
RG 2500 A	3193	0,774	3,75	59	319,7
RECG 1000 A	1589	0,319	2,79	60	134,5
RECG 1500 A	2119	0,425	3,72	61	198,4
RECG 2000 A	3178	0,638	5,58	62	260,1
RECG 2500 A	3708	0,744	6,51	63	319,7

RECESSED WINDBOX

HIGH PRESSURE RECESSED
AIR CURTAINS FOR COMMERCIAL DOORS

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RM 1000 A	1177	0,263	1,10	55	125,7
RM 1500 A	1766	0,395	1,65	56	187,4
RM 2000 A	2354	0,526	2,20	57	240,3
RM 2500 A	2943	0,658	2,75	58	302
RG 1000 A	1457	0,395	1,65	57	134,5
RG 1500 A	1942	0,526	2,20	58	198,4
RG 2000 A	2913	0,789	3,30	59	260,1
RG 2500 A	3399	0,921	3,85	60	319,7
RECG 1000 A	1677	0,381	2,94	61	134,5
RECG 1500 A	2236	0,508	3,92	62	198,4
RECG 2000 A	3354	0,762	5,88	63	260,1
RECG 2500 A	3914	0,889	6,86	64	319,7

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RM 1000 E	1059	2/4/6	2/4,5/6,5	2,5/5/7,5	3,5/3,5/7	0,221	1,07	54	143,3
RM 1500 E	1589	3/6/9	3/6,5/9,5	3,5/7/10,5	5/5/10	0,332	1,61	55	216,1
RM 2000 E	2119	4/8/12	4/8,5/12,5	4,5/9/13,5	6,5/6,5/13	0,442	2,14	56	286,6
RM 2500 E	2648	5/8/13	5/10/15	5,5/11/16,5	8/8/16	0,553	2,68	57	357,1
RG 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	154,3
RG 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	229,3
RG 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	308,6
RG 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	379,2
RECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	154,3
RECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	229,3
RECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	308,6
RECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	379,2

(*) Under request other electrical heating power can be limited.
For 208V~3ph~60Hz air curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RM 1000 E	1148	2,5/5/7,5	3,3/6,7/10	3,7/7,3/11	3,5/7/10,5	0,263	1,10	55	143,3
RM 1500 E	1721	3/6,5/9,5	4,8/9,7/14,5	5,2/10,3/15,5	5/10/15	0,395	1,65	56	216,1
RM 2000 E	2295	4/8/12	6,5/13/19,5	7/14/21	6,5/13/19,5	0,526	2,20	57	286,6
RM 2500 E	2869	5/8/13	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,658	2,75	58	357,1
RG 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	154,3
RG 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17.5	5,5/11/16,5	0,526	2,20	58	229,3
RG 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	308,6
RG 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	379,2
RECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	154,3
RECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	229,3
RECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	308,6
RECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	379,2

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140ºF)		P64 (140/104ºF)		P54 (122/104ºF)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RM 1000 P	853	28,73	0,11	25,45	0,54	25,08	0,15	0,221	1,07	55	138,9
RM 1500 P	1280	44,66	0,09	40,64	0,8	42,24	0,55	0,332	1,61	56	205
RM 2000 P	1707	64,69	0,24	54,18	0,59	54,9	0,25	0,442	2,14	57	269
RM 2500 P	2133	84,31	0,47	67,56	0,47	71,59	0,49	0,553	2,68	58	337,3
RG 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	56	147,7
RG 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	216,1
RG 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	288,8
RG 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	359,4
RECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	147,7
RECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	216,1
RECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	288,8
RECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	359,4

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

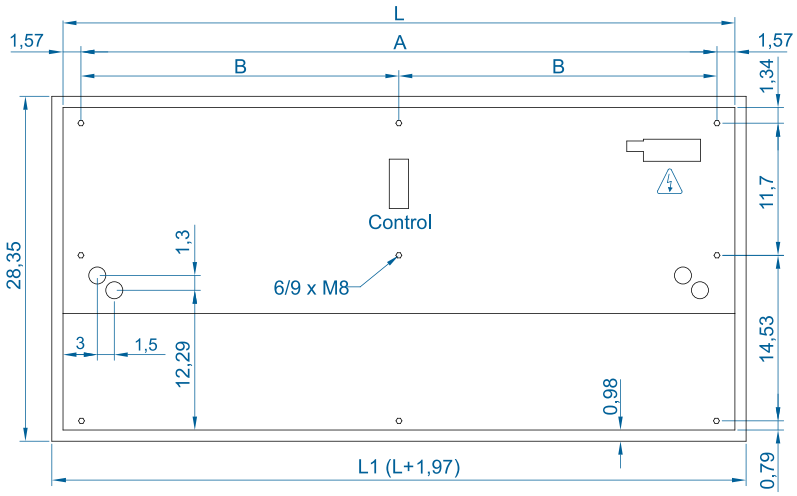
WATER HEATED 240V-1ph~60Hz

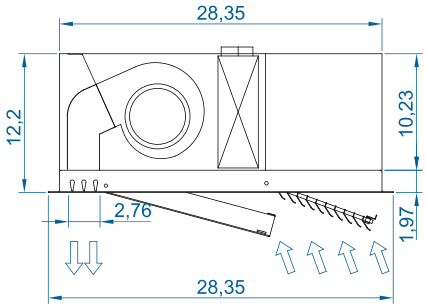
Model	Airflow	P86 (176/140ºF)		P64 (140/104ºF)		P54 (122/104ºF)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RM 1000 P	971	31,19	0,13	27,71	0,63	27,57	0,18	0,263	1,10	56	138,9
RM 1500 P	1457	48,49	0,11	44,32	0,93	46,41	0,65	0,395	1,65	57	205
RM 2000 P	1942	70,22	0,28	59,13	0,69	60,36	0,30	0,526	2,20	58	269
RM 2500 P	2428	91,55	0,55	73,77	0,55	78,72	0,58	0,658	2,75	59	337,3
RG 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	57	147,7
RG 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	216,1
RG 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	288,8
RG 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	359,4
RECG 1000 P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	61	147,7
RECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	216,1
RECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	288,8
RECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	359,4

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

Dimensions





	L	L1	A	B
RWIN 1000	39,37	41,34	36,22	-
RWIN 1500	59,06	61,02	55,91	27,95
RWIN 2000	78,74	80,71	75,59	37,79
RWIN 2500	98,43	100,39	95,28	47,64

CAD drawings, installation manuals and other documentation

CAD

Optional accessories

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

Control

IR Control
✔Included

Basic Control
✔Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

Sensors

Magnetic
door contact MAG-DC
✔Included

Mechanical
door contact MEC-DC

Technical Features

RAL 9016 standard

Other colors on request

Stainless steel

Range
Up to 13,8 ft

Airflow / Length
853 - 4473 cfm
3,2 ft to 9,8 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 6 - 30,5 kW
P : 25,08 - 140,14 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

DAM is an air curtain from the standard range that stands out for its versatility and the design of its front part. The classic suction grille has been efficiently replaced by a front panel that can be customised with logos, signage, graphics or images providing a modern and clean view of the equipment. The double air inlet areas are located behind the front panel. They do not need maintenance. Casing painted in RAL 9016. Other colors are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1h~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
DAM M 1000 A	1089	0,221	1,07	54	83,8
DAM M 1500 A	1633	0,332	1,61	55	123,5
DAM M 2000 A	2177	0,442	2,14	56	154,3
DAM M 2500 A	2722	0,553	2,68	57	167,6
DAM M 3000 A	3266	0,663	3,21	58	194
DAM G 1000 A	1368	0,332	1,61	56	92,6
DAM G 1500 A	1824	0,442	2,14	57	134,5
DAM G 2000 A	2737	0,663	3,21	58	176,4
DAM G 2500 A	3193	0,774	3,75	59	189,6
DAM G 3000 A	3649	0,884	4,28	60	216,1
DAM ECG 1000 A	1589	0,319	2,79	60	92,6
DAM ECG 1500 A	2119	0,425	3,72	61	134,5
DAM ECG 2000 A	3178	0,638	5,58	62	176,4
DAM ECG 2500 A	3708	0,744	6,51	63	189,6
DAM ECG 3000 A	4237	0,851	7,44	64	216,1

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
DAM M 1000 A	1177	0,263	1,10	55	83,8
DAM M 1500 A	1766	0,395	1,65	56	123,5
DAM M 2000 A	2354	0,526	2,20	57	154,3
DAM M 2500 A	2943	0,658	2,75	58	167,6
DAM M 3000 A	3531	0,789	3,30	59	194
DAM G 1000 A	1457	0,395	1,65	57	92,6
DAM G 1500 A	1942	0,526	2,20	58	134,5
DAM G 2000 A	2913	0,789	3,30	59	176,4
DAM G 2500 A	3399	0,921	3,85	60	189,6
DAM G 3000 A	3884	1,052	4,40	61	216,1
DAM ECG 1000 A	1677	0,381	2,94	61	92,6
DAM ECG 1500 A	2236	0,508	3,92	62	134,5
DAM ECG 2000 A	3354	0,762	5,88	63	176,4
DAM ECG 2500 A	3914	0,889	6,86	64	189,6
DAM ECG 3000 A	4473	1,016	7,84	65	216,1

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
DAM M 1000 E	1059	2/4/6	2/4,5/6,5	2,5/5/7,5	3,5/3,5/7	0,221	1,07	54	99,2
DAM M 1500 E	1589	3/6/9	3/6,5/9,5	3,5/7/10,5	5/5/10	0,332	1,61	55	149,9
DAM M 2000 E	2119	4/8/12	4/8,5/12,5	4,5/9/13,5	6,5/6,5/13	0,442	2,14	56	194
DAM M 2500 E	2648	5/8/13	5/10/15	5,5/11/16,5	8/8/16	0,553	2,68	57	211,6
DAM M 3000 E	3178	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,663	3,21	58	244,7
DAM G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	110,2
DAM G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	163,1
DAM G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	216,1
DAM G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	233,7
DAM G 3000 E	3531	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,884	4,28	60	266,8
DAM ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	110,2
DAM ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	163,1
DAM ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	216,1
DAM ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	233,7
DAM ECG 3000 E	4237	6,5/8/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,851	7,44	64	266,8

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
DAM M 1000 E	1148	2,5/5/7,5	3,3/6,7/10	3,7/7,3/11	3,5/7/10,5	0,263	1,10	55	99,2
DAM M 1500 E	1721	3/6,5/9,5	4,8/9,7/14,5	5,2/10,3/15,5	5/10/15	0,395	1,65	56	149,9
DAM M 2000 E	2295	4/8/12	6,5/13/19,5	7/14/21	6,5/13/19,5	0,526	2,20	57	194
DAM M 2500 E	2869	5/8/13	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,658	2,75	58	211,6
DAM M 3000 E	3443	6,5/8/14,5	9,3/18,7/28	10,3/20,3/30,5	9,5/19/28,5	0,789	3,30	59	244,7
DAM G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	110,2
DAM G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	163,1
DAM G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	216,1
DAM G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	233,7
DAM G 3000 E	3766	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,052	4,40	61	266,8
DAM ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	110,2
DAM ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	163,1
DAM ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	216,1
DAM ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	233,7
DAM ECG 3000 E	4355	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,016	7,84	65	266,8

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
DAM M 1000 P	853	28,73	0,11	25,45	0,54	25,08	0,15	0,221	1,07	55	94,8
DAM M 1500 P	1280	44,66	0,09	40,64	0,80	42,24	0,55	0,332	1,61	56	141,1
DAM M 2000 P	1707	64,69	0,24	54,18	0,59	54,9	0,25	0,442	2,14	57	178,6
DAM M 2500 P	2133	84,31	0,47	67,56	0,47	71,59	0,49	0,553	2,68	58	196,2
DAM M 3000 P	2560	104,04	0,82	84,14	0,83	87,62	0,69	0,663	3,21	59	227,1
DAM G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	56	105,8
DAM G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	154,3
DAM G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	200,6
DAM G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	213,8
DAM G 3000 P	2943	113,73	0,96	92,47	0,99	97,04	0,83	0,884	4,28	60	244,7
DAM ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	105,8
DAM ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	154,3
DAM ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	200,6
DAM ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	213,8
DAM ECG 3000 P	4002	137,68	1,35	113,15	1,41	120,79	1,22	0,854	7,63	64	244,7

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

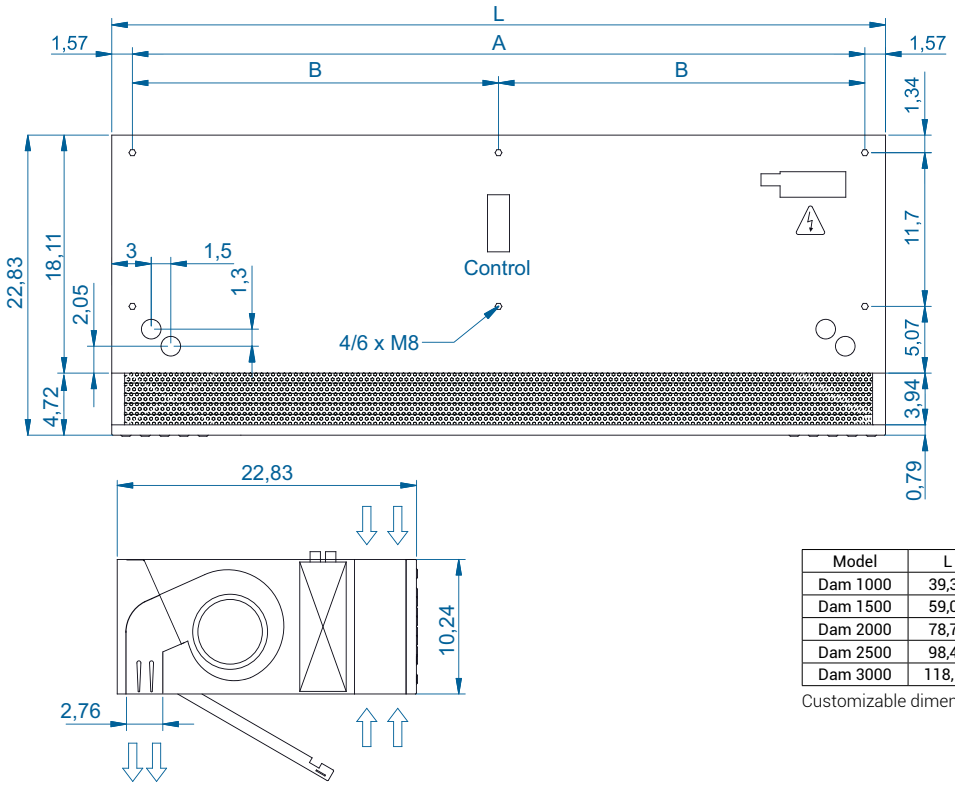
Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
DAM M 1000P	971	31,19	0,13	27,71	0,63	27,57	0,18	0,263	1,10	56	94,8
DAM M 1500P	1457	48,49	0,11	44,32	0,93	46,41	0,65	0,395	1,65	57	141,1
DAM M 2000P	1942	70,22	0,28	59,13	0,69	60,36	0,30	0,526	2,20	58	178,6
DAM M 2500P	2428	91,55	0,55	73,77	0,55	78,72	0,58	0,658	2,75	59	196,2
DAM M 3000P	2913	113,01	0,95	91,85	0,97	96,32	0,82	0,789	3,30	60	227,1
DAM G 1000P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	57	105,8
DAM G 1500P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	154,3
DAM G 2000P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	200,6
DAM G 2500P	3090	106,34	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	213,8
DAM G 3000P	3531	127,48	1,18	104,34	1,22	110,62	1,04	1,052	4,40	61	244,7
DAM ECG 1000P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	61	105,8
DAM ECG 1500P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	154,3
DAM ECG 2000P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	200,6
DAM ECG 2500P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	213,8
DAM ECG 3000P	4120	140,14	1,39	115,3	1,46	123,25	1,26	1,016	7,84	65	244,7

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

Dimensions

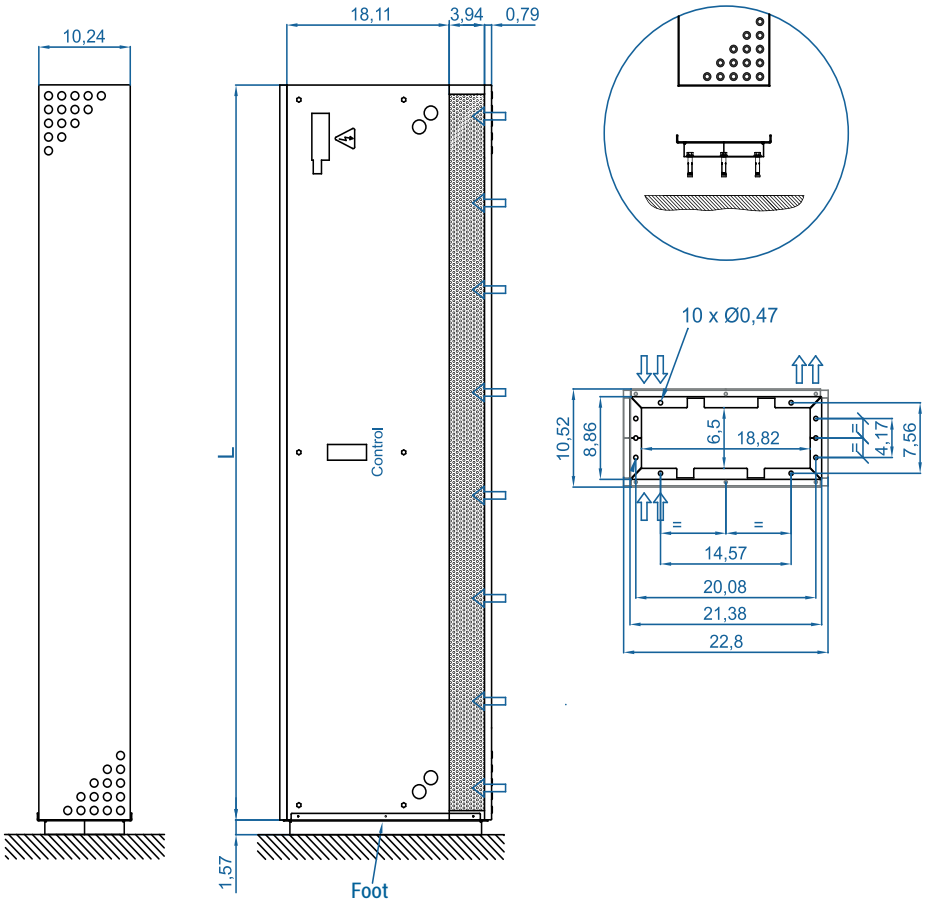
Horizontal installation



Model	L	A	B
Dam 1000	39,37	36,22	-
Dam 1500	59,05	55,91	27,95
Dam 2000	78,74	75,59	37,79
Dam 2500	98,43	95,28	47,64
Dam 3000	118,11	114,96	57,48

Customizable dimensions on request.

Vertical installation



CAD drawings, installation manuals and other documentation

CAD

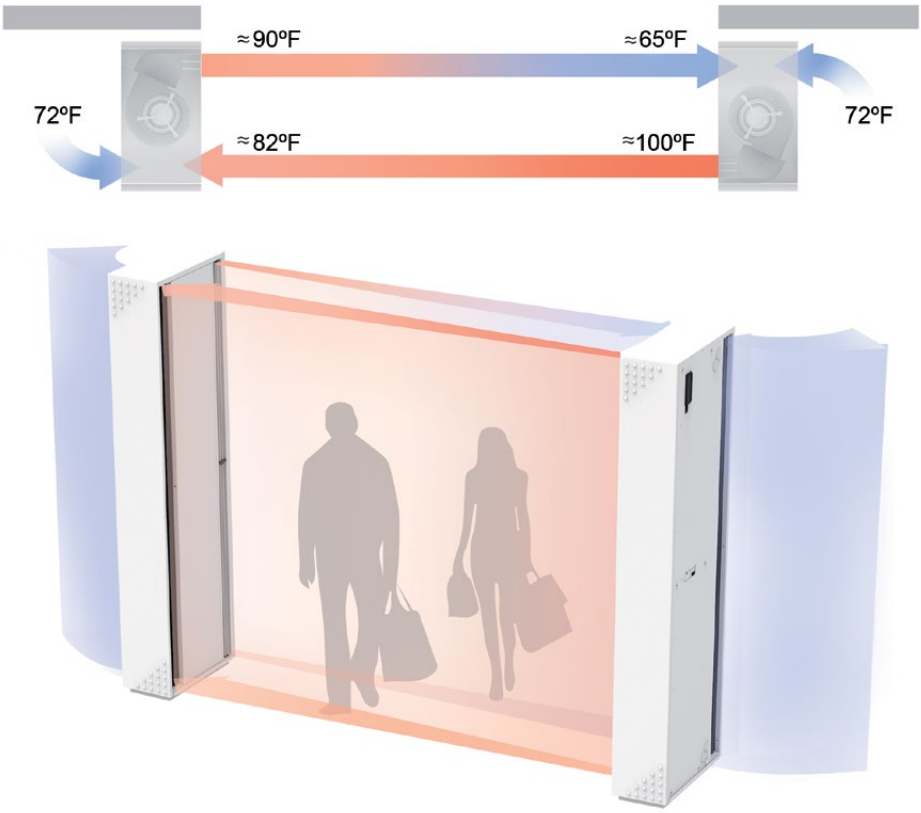
Dam Twin application

DAM TWIN system is an optimal solution for installations with very adverse conditions.

The system consists on two vertical DAM air curtains face to face, one with the air jet ahead and the other behind.

At the end of each jet there is the inlet of the other air curtain helping to close the air barrier. This double jet works as a closed circuit creating a separation zone at the door entrance.

WATCH VIDEO



Optional accessories

Supports and installation

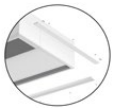

Wall rail support
SPWR


Silentblock supports
SPANG-SIL / SLB


Suspension cables
SPCT


Foot support
SPF-DAM
(Galv. / SS)


Joining kit
SPJ-MG
(Galv. / SS)


False Ceiling
Frame Kit

Control


IR Control
✔Included


Basic Control
✔ Included


RJ45 Cable
✔Included


Hand-Auto
CH-5HW-NE


Interface kit
IN-NE-II

Sensors


Magnetic
door contact MAG-DC
✔Included


Mechanical
door contact MEC-DC

Technical Features

Range
Up to 13,8 ft

Airflow / Length
853 - 3914 cfm
3,2 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 6 - 30,5 kW
P : 25,08 - 116,8 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15º each side

RAL 9016 standard

Other colors on request

RECESSED DAM is a high pressure compact and low profile air curtain from our standard range. It is specially designed for recessed installation in false ceilings, suitable for all types of commercial entrances. Its design is characterized by providing a full view of the inlet and outlet slatted grille, which is maintenance-free and is completely integrated into a single frame colour RAL 9016. Other colours are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RDAM M 1000 A	1089	0,221	1,07	54	99,2
RDAM M 1500 A	1633	0,332	1,61	55	145,5
RDAM M 2000 A	2177	0,442	2,14	56	185,2
RDAM M 2500 A	2722	0,553	2,68	57	205
RDAM G 1000 A	1368	0,332	1,61	56	108
RDAM G 1500 A	1824	0,442	2,14	57	156,5
RDAM G 2000 A	2737	0,663	3,21	58	207,2
RDAM G 2500 A	3193	0,774	3,75	59	227,1
RDAM ECG 1000 A	1589	0,319	2,79	60	108
RDAM ECG 1500 A	2119	0,425	3,72	61	156,5
RDAM ECG 2000 A	3178	0,638	5,58	62	207,2
RDAM ECG 2500 A	3708	0,744	6,51	63	227,1

RECESSED DAM

HIGH PRESSURE RECESSED
AIR CURTAINS FOR COMMERCIAL DOORS

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RDAM M 1000 A	1177	0,263	1,10	55	99,2
RDAM M 1500 A	1766	0,395	1,65	56	145,5
RDAM M 2000 A	2354	0,526	2,20	57	185,2
RDAM M 2500 A	2943	0,658	2,75	58	205
RDAM G 1000 A	1457	0,395	1,65	57	108
RDAM G 1500 A	1942	0,526	2,20	58	156,5
RDAM G 2000 A	2913	0,789	3,30	59	207,2
RDAM G 2500 A	3399	0,921	3,85	60	227,1
RDAM ECG 1000 A	1677	0,381	2,94	61	108
RDAM ECG 1500 A	2236	0,508	3,92	62	156,5
RDAM ECG 2000 A	3354	0,762	5,88	63	207,2
RDAM ECG 2500 A	3914	0,889	6,86	64	227,1

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RDAM M 1000 E	1059	2/4/6	2/4,5/6,5	2,5/5/7,5	3,5/3,5/7	0,221	1,07	54	114,6
RDAM M 1500 E	1589	3/6/9	3/6,5/9,5	3,5/7/10,5	5/5/10	0,332	1,61	55	172
RDAM M 2000 E	2119	4/8/12	4/8,5/12,5	4,5/9/13,5	6,5/6,5/13	0,442	2,14	56	224,9
RDAM M 2500 E	2648	5/8/13	5/10/15	5,5/11/16,5	8/8/16	0,553	2,68	57	249,1
RDAM G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	125,7
RDAM G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	185,2
RDAM G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	246,9
RDAM G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	271,2
RDAM ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	125,7
RDAM ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	185,2
RDAM ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	246,9
RDAM ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	271,2

(*) Under request other electrical heating power can be limited.
For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RDAM M 1000 E	1148	2,5/5/7,5	3,3/6,7/10	3,7/7,3/11	3,5/7/10,5	0,263	1,10	55	114,6
RDAM M 1500 E	1721	3/6,5/9,5	4,8/9,7/14,5	5,2/10,3/15,5	5/10/15	0,395	1,65	56	172
RDAM M 2000 E	2295	4/8/12	6,5/13/19,5	7/14/21	6,5/13/19,5	0,526	2,20	57	224,9
RDAM M 2500 E	2869	5/8/13	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,658	2,75	58	249,1
RDAM G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	125,7
RDAM G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17.5	5,5/11/16,5	0,526	2,20	58	185,2
RDAM G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	246,9
RDAM G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	271,2
RDAM ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	125,7
RDAM ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	185,2
RDAM ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	246,9
RDAM ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	271,2

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140ºF)		P64 (140/104ºF)		P54 (122/104ºF)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RDAM M 1000 P	853	28,73	0,11	25,45	0,54	25,08	0,15	0,221	1,07	55	110,2
RDAM M 1500 P	1280	44,66	0,09	40,64	0,80	42,24	0,55	0,332	1,61	56	163,1
RDAM M 2000 P	1707	64,69	0,24	54,18	0,59	54,9	0,25	0,442	2,14	57	209,4
RDAM M 2500 P	2133	84,31	0,47	67,56	0,47	71,59	0,49	0,553	2,68	58	233,7
RDAM G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	56	121,3
RDAM G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	176,4
RDAM G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	231,5
RDAM G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	251,3
RDAM ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	121,3
RDAM ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	176,4
RDAM ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	231,5
RDAM ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	251,3

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

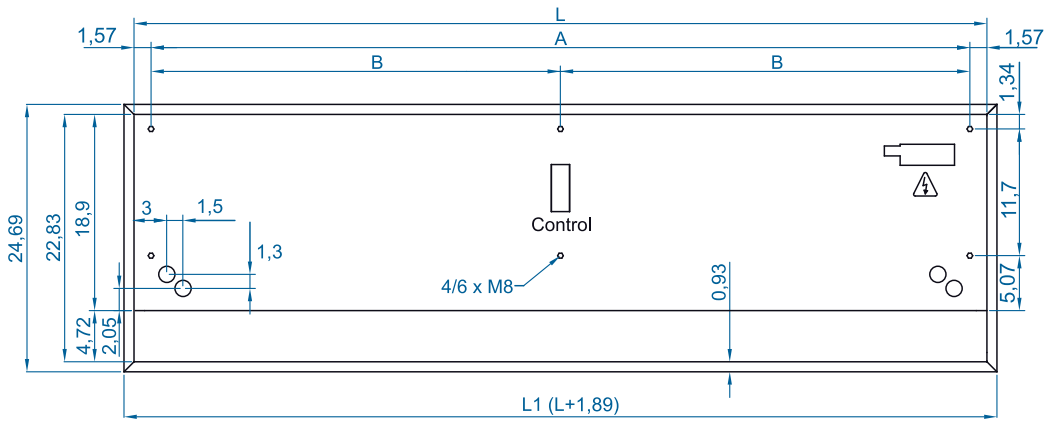
WATER HEATED 240V-1ph~60Hz

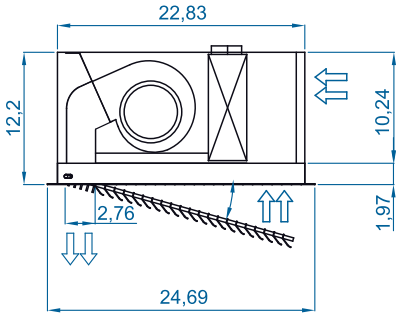
Model	Airflow	P86 (176/140ºF)		P64 (140/104ºF)		P54 (122/104ºF)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RDAM M 1000 P	971	31,19	0,13	27,71	0,63	27,57	0,18	0,263	1,10	56	110,2
RDAM M 1500 P	1457	48,49	0,11	44,33	0,93	46,41	0,65	0,395	1,65	57	163,1
RDAM M 2000 P	1942	70,22	0,28	59,13	0,69	60,36	0,30	0,526	2,20	58	209,4
RDAM M 2500 P	2428	91,55	0,55	73,77	0,55	78,72	0,58	0,658	2,75	59	233,7
RDAM G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	57	121,3
RDAM G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	176,4
RDAM G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	231,5
RDAM G 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	251,3
RDAM ECG 1000 P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	61	121,3
RDAM ECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	176,4
RDAM ECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	231,5
RDAM ECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	251,3

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

Dimensions





	L	L1	A	B
RDAM 1000	39,37	41,34	36,22	-
RDAM 1500	59,06	61,02	55,91	27,95
RDAM 2000	78,74	80,71	75,59	37,79
RDAM 2500	98,43	100,39	95,28	47,64

CAD drawings, installation manuals and other documentation

CAD

Optional accessories

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

Control

IR Control
✔Included

Basic Control
✔ Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

Sensors

Magnetic
door contact MAG-DC
✔Included

Mechanical
door contact MEC-DC

Technical Features

RAL 9016 standard | Other colors on request | Stainless steel

Range
Up to 13,8 ft

Airflow / Length
1471 - 3914 cfm
4,9 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 10 - 30,5 kW
P : 44,63 - 114,78 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

INVISAIR air curtain is designed to be installed invisibly in false ceilings and columns or drawers around the door. It is an ideal solution for those entrances that for architectural reasons require an air curtain installation that is fully integrated into the interior design of the building. Casing painted in RAL 9016. Other colors are available on request.
It can be vertically or horizontally mounted. The air flow of Invisair follows a straight line from the air inlet grille to the to the discharge. Inlet area inside a bulkhead or column should be designed with suitable grille provided by others.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
IG 1500 A	1824	0,442	2,14	57	132,3
IG 2000 A	2737	0,663	3,21	58	172
IG 2500 A	3193	0,774	3,75	59	183
IECG 1500 A	2119	0,425	3,72	61	132,3
IECG 2000 A	3178	0,638	5,58	62	172
IECG 2500 A	3708	0,744	6,51	63	183

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
IG 1500 A	1942	0,526	2,20	58	132,3
IG 2000 A	2913	0,789	3,30	59	172
IG 2500 A	3399	0,921	3,85	60	183
IECG 1500 A	2236	0,508	3,92	62	132,3
IECG 2000 A	3354	0,762	5,88	63	172
IECG 2500 A	3914	0,889	6,86	64	183

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
IG 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	160,9
IG 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	211,6
IG 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	227,1
IECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	160,9
IECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	211,6
IECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	227,1

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
IG 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	160,9
IG 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	211,6
IG 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	227,1
IECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	160,9
IECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	211,6
IECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	227,1

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
IG 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	152,1
IG 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	196,2
IG 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	207,2
IECG 1500 P	2001	59,0	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	152,1
IECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	196,2
IECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	207,2

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

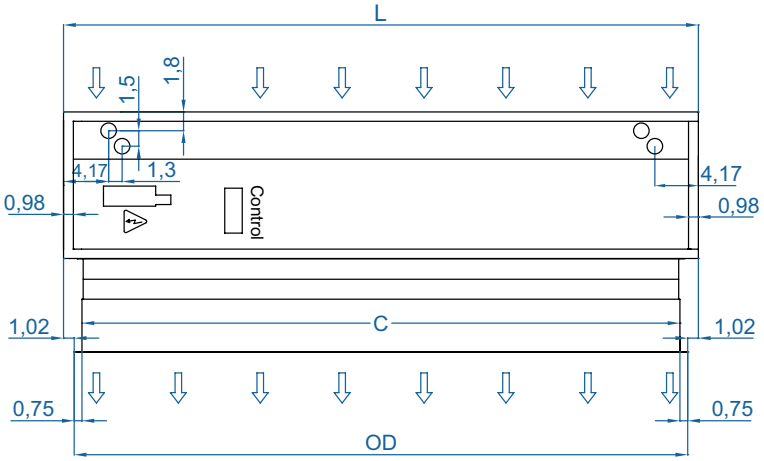
Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
IG 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	152,1
IG 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	196,2
IG 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	207,2
IECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	152,1
IECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	196,2
IECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	207,2

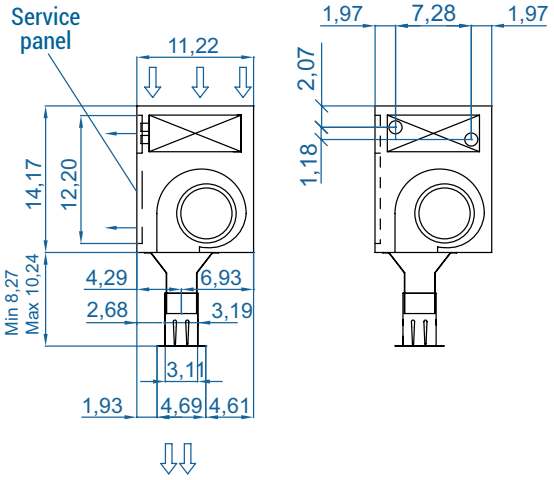
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

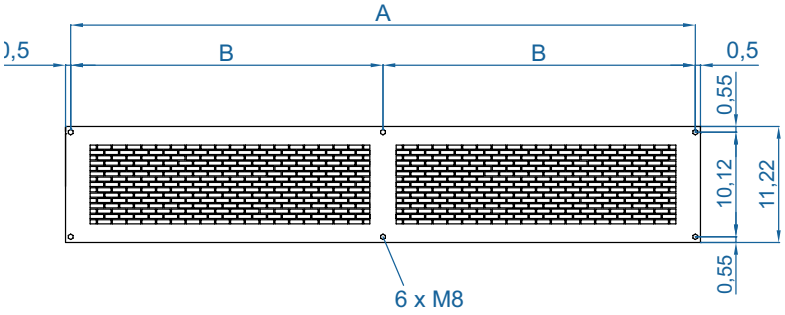
Selection program

Dimensions

Horizontal installation



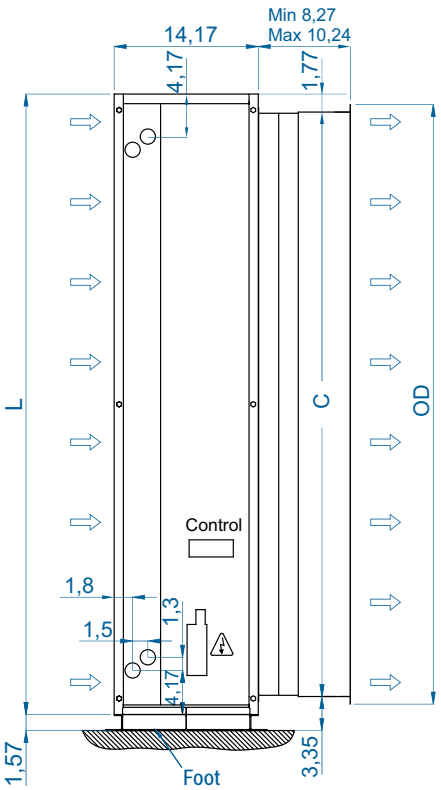


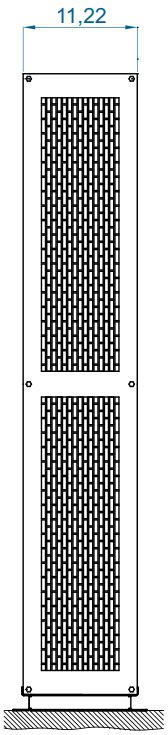


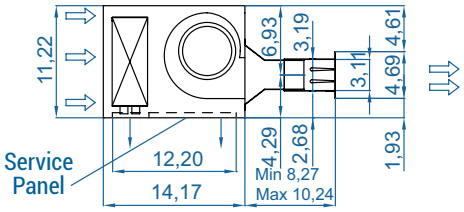
Model	L	A	B	C	OD
1000	41,34	40,35	-	37,83	39,29
1500	61,02	60,04	30,02	57,52	58,98
2000	80,91	79,92	39,96	77,20	78,66
2500	100,59	99,61	49,80	96,89	98,35
3000	118,11	117,13	58,56	116,57	118,03

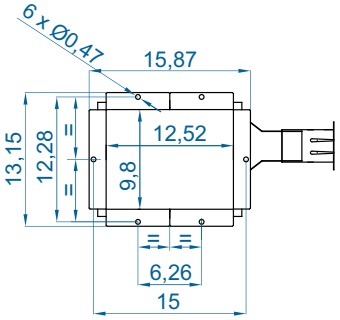
Customizable dimensions on request

Vertical installation









CAD drawings, installation manuals and other documentation

CAD

Installation configurations

Optional accessories

Supports and installation


Wall rail support SPWR


Silentblock supports SPANG-SIL / SLB


Suspension cables SPCT


Wall angle support Invisair MG


Flat inlet grille


Foot support SPF-INVISAIR (Galv.)


Joining kit SPJ-INVISAIR (Galv.)

Control


IR Control
✔Included


Basic Control
✔ Included


RJ45 Cable
✔ Included


Hand-Auto CH-5HW-NE


Interface kit IN-NE-II

Sensors


Magnetic door contact MAG-DC
✔Included


Mechanical door contact MEC-DC

Technical Features

RAL 9016 standard

Other colors on request

Range
Up to 13,8 ft

Airflow / Length
853 - 4473 cfm
3,2 ft to 9,8 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 6 - 30,5 kW
P : 25,08 - 140,14 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

SMART air curtain combines the best technological features with high quality design and finishes. Contemporary, discreet and elegant, it is provided with smooth frontal panel as the air entrance is hidden and placed at the upper side, out of sight, thus avoiding interior vision of the air curtain and the grille. SMART is halfway between the standard and the decorative range, and it is of great value for commercial and public spaces that need to ensure an efficient and sustainable climatization, without bursting into the interior architecture and design of the premises. Casing painted in RAL 9016. Other colors are available on request.

SMART works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
SMART M 1000 A	1089	0,221	1,07	52	75
SMART M 1500 A	1633	0,332	1,61	53	110,2
SMART M 2000 A	2177	0,442	2,14	54	136,7
SMART M 2500 A	2722	0,553	2,68	55	145,5
SMART M 3000 A	3266	0,663	3,21	56	167,6
SMART G 1000 A	1368	0,332	1,61	54	83,8
SMART G 1500 A	1824	0,442	2,14	55	121,3
SMART G 2000 A	2737	0,663	3,21	56	158,7
SMART G 2500 A	3193	0,774	3,75	57	167,6
SMART G 3000 A	3649	0,884	4,28	58	189,6
SMART ECG 1000 A	1589	0,319	2,79	58	83,8
SMART ECG 1500 A	2119	0,425	3,72	59	121,3
SMART ECG 2000 A	3178	0,638	5,58	60	158,7
SMART ECG 2500 A	3708	0,744	6,51	61	167,6
SMART ECG 3000 A	4237	0,851	7,44	62	189,6

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
SMART M 1000 A	1177	0,263	1,10	53	75
SMART M 1500 A	1766	0,395	1,65	54	110,2
SMART M 2000 A	2354	0,526	2,20	55	136,7
SMART M 2500 A	2943	0,658	2,75	56	145,5
SMART M 3000 A	3531	0,789	3,30	57	167,6
SMART G 1000 A	1457	0,395	1,65	55	83,8
SMART G 1500 A	1942	0,526	2,20	56	121,3
SMART G 2000 A	2913	0,789	3,30	57	158,7
SMART G 2500 A	3399	0,921	3,85	58	167,7
SMART G 3000 A	3884	1,052	4,40	59	189,6
SMART ECG 1000 A	1677	0,381	2,94	59	83,8
SMART ECG 1500 A	2236	0,508	3,92	60	121,3
SMART ECG 2000 A	3354	0,762	5,88	61	158,7
SMART ECG 2500 A	3914	0,889	6,86	62	167,6
SMART ECG 3000 A	4473	1,016	7,84	63	189,6

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
SMART M 1000 E	1059	2/4/6	2/4,5/6,5	2,5/5/7,5	3,5/3,5/7	0,221	1,07	52	90,4
SMART M 1500 E	1589	3/6/9	3/6,5/9,5	3,5/7/10,5	5/5/10	0,332	1,61	53	134,7
SMART M 2000 E	2119	4/8/12	4/8,5/12,5	4,5/9/13,5	6,5/6,5/13	0,442	2,14	54	176,4
SMART M 2500 E	2648	5/8/13	5/10/15	5,5/11/16,5	8/8/16	0,553	2,68	55	189,6
SMART M 3000 E	3178	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,663	3,21	56	218,3
SMART G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	54	101,4
SMART G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	55	149,9
SMART G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	56	198,4
SMART G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	57	211,6
SMART G 3000 E	3531	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,884	4,28	58	240,3
SMART ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	58	101,4
SMART ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	59	149,9
SMART ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	60	198,4
SMART ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	61	211,6
SMART ECG 3000 E	4237	6,5/8/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,851	7,44	62	240,3

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
SMART M 1000 E	1148	2,5/5/7,5	3,3/6,7/10	3,7/7,3/11	3,5/7/10,5	0,263	1,10	53	90,4
SMART M 1500 E	1721	3/6,5/9,5	4,8/9,7/14,5	5,2/10,3/15,5	5/10/15	0,395	1,65	54	134,7
SMART M 2000 E	2295	4/8/12	6,5/13/19,5	7/14/21	6,5/13/19,5	0,526	2,20	55	176,4
SMART M 2500 E	2869	5/8/13	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,658	2,75	56	189,6
SMART M 3000 E	3443	6,5/8/14,5	9,3/18,7/28	10,3/20,3/30,5	9,5/19/28,5	0,789	3,30	57	218,3
SMART G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	55	101,4
SMART G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	56	149,9
SMART G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	57	198,4
SMART G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	58	211,6
SMART G 3000 E	3766	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,052	4,40	59	240,3
SMART ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	59	101,4
SMART ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	60	149,9
SMART ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	61	198,4
SMART ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	62	211,6
SMART ECG 3000 E	4355	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,016	7,84	63	240,3

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
SMART M 1000 P	853	28,73	0,11	25,45	0,54	25,08	0,15	0,221	1,07	53	86
SMART M 1500 P	1280	44,66	0,09	40,64	0,80	42,24	0,55	0,332	1,61	54	127,9
SMART M 2000 P	1707	64,69	0,24	54,18	0,59	54,9	0,25	0,442	2,14	55	160,9
SMART M 2500 P	2133	84,31	0,47	67,56	0,47	71,59	0,49	0,553	2,68	56	174,2
SMART M 3000 P	2560	104,04	0,82	84,14	0,83	87,62	0,69	0,663	3,21	57	200,6
SMART G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	54	97
SMART G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	55	141,1
SMART G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	56	183
SMART G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	57	191,8
SMART G 3000 P	2943	113,73	0,96	92,47	0,99	97,04	0,83	0,884	4,28	58	218,3
SMART ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	58	97
SMART ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	59	141,1
SMART ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	60	183
SMART ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	61	191,8
SMART ECG 3000 P	4002	137,68	1,35	113,15	1,41	120,79	1,22	0,854	7,63	62	218,3

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

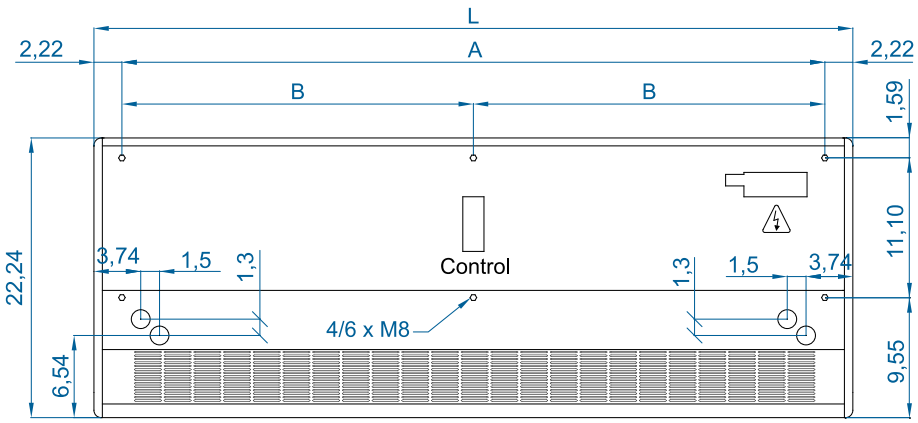
WATER HEATED 240V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
SMART M 1000 P	971	31,19	0,13	27,71	0,63	27,57	0,18	0,263	1,10	54	86
SMART M 1500 P	1457	48,49	0,11	44,33	0,93	46,41	0,65	0,395	1,65	55	127,9
SMART M 2000 P	1942	70,22	0,28	59,13	0,69	60,36	0,30	0,526	2,20	56	160,9
SMART M 2500 P	2428	91,55	0,55	73,77	0,55	78,72	0,58	0,658	2,75	57	174,2
SMART M 3000 P	2913	113,01	0,95	91,85	0,97	96,32	0,82	0,789	3,3	58	200,6
SMART G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	55	97
SMART G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	56	141,1
SMART G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	57	183
SMART G 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	58	191,8
SMART G 3000 P	3531	127,48	1,18	104,34	1,22	110,62	1,04	1,052	4,40	59	218,3
SMART ECG 1000 P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	59	97
SMART ECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	60	141,1
SMART ECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	61	183
SMART ECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	62	191,8
SMART ECG 3000 P	4120	140,14	1,39	115,3	1,46	123,25	1,26	1,016	7,84	63	218,3

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

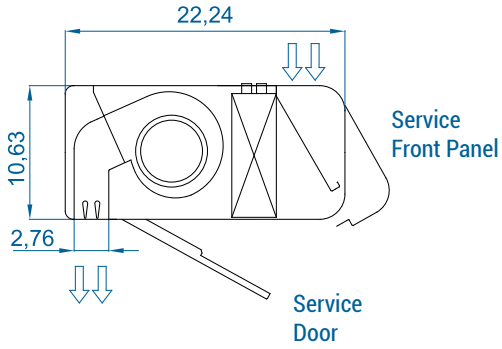
Selection program

Dimensions



	L	A	B
SMART 1000	40,71	36,22	-
SMART 1500	60,39	55,91	27,95
SMART 2000	80,08	75,59	37,79
SMART 2500	99,76	95,28	47,64
SMART 3000	119,45	114,96	57,48

Customizable dimensions on request.



Smooth or customizable front panel
with logos, lighting or signage

Optional accessories

CAD drawings, installation manuals
and other documentation

CAD

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

Control

IR Control
✔ Included

Basic Control
✔Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

Sensors

Magnetic
door contact MAG-DC
✔Included

Mechanical
door contact MEC-DC

Technical Features

Casing: Black forge (standard)

Panels: Anodized aluminium (standard)

Panels: Stainless Steel (optional)

Other colors on request

Range
Up to 13,8 ft

Airflow / Length
1103 - 3914 cfm
3,2 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 7,5 - 30,5 kW
P : 30,13 - 114,75 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

Decorative, minimalist and elegant, ZEN air curtain is it the favorite for architects and designers to include in their projects. Its smart design and high performance is perfect to blend with any building's internal or external aesthetics. Apart from seamlessly integrating into any space, ZEN can become an active part of the decor and ambience of the premises offering more features than a standard air curtain.

ZEN air curtain offers infinite possibilities of customization. Central casing made of galvanized steel finished in black forge as standard. Front anodized aluminium panels, optionally manufactured in brushed or mirror polished stainless steel. Other materials are possible, such as wood, metal, etc.
Other colours are available on request. Special finishes with other materials such as aged metal, wood, glass, PVC / PES, logos, signage, graphics, lights, clocks, vinyl or slogans.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
ZEN G 1000 A	1368	0,332	1,61	56	79,4
ZEN G 1500 A	1824	0,442	2,14	57	110,2
ZEN G 2000 A	2737	0,663	3,21	58	152,1
ZEN G 2500 A	3193	0,774	3,75	59	183
ZEN ECG 1000 A	1589	0,319	2,79	60	79,4
ZEN ECG 1500 A	2119	0,425	3,72	61	1102
ECG 2000 A	3178	0,638	5,58	62	152,1
ECG 2500 A	3708	0,744	6,51	63	183

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
ZEN G 1000 A	1457	0,395	1,65	57	79,4
ZEN G 1500 A	1942	0,526	2,20	58	110,2
ZEN G 2000 A	2913	0,789	3,30	59	152,1
ZEN G 2500 A	3399	0,921	3,85	60	183
ZEN ECG 1000 A	1677	0,381	2,94	61	79,4
ZEN ECG 1500 A	2236	0,508	3,92	62	110,2
ZEN ECG 2000 A	3354	0,762	5,88	63	152,1
ZEN ECG 2500 A	3914	0,889	6,86	64	183

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
ZEN G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	94,8
ZEN G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7.5/11,5	5/5,5/10,5	0,442	2,14	57	136,7
ZEN G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	187,4
ZEN G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13,19,5	8/9,5/17,5	0,774	3,75	59	227,1
ZEN ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	94,8
ZEN ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	136,7
ZEN ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	187,4
ZEN ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	227,1

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
ZEN G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	94,8
ZEN G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	136,7
ZEN G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	187,4
ZEN G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	227,1
ZEN ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	94,8
ZEN ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	136,7
ZEN ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	187,4
ZEN ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	227,1

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
ZEN G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,422	1,78	56	88,2
ZEN G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,562	2,37	57	125,7
ZEN G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,844	3,57	58	172
ZEN G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,985	4,16	59	209,4
ZEN ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	88,2
ZEN ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	125,7
ZEN ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	172
ZEN ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	209,4

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

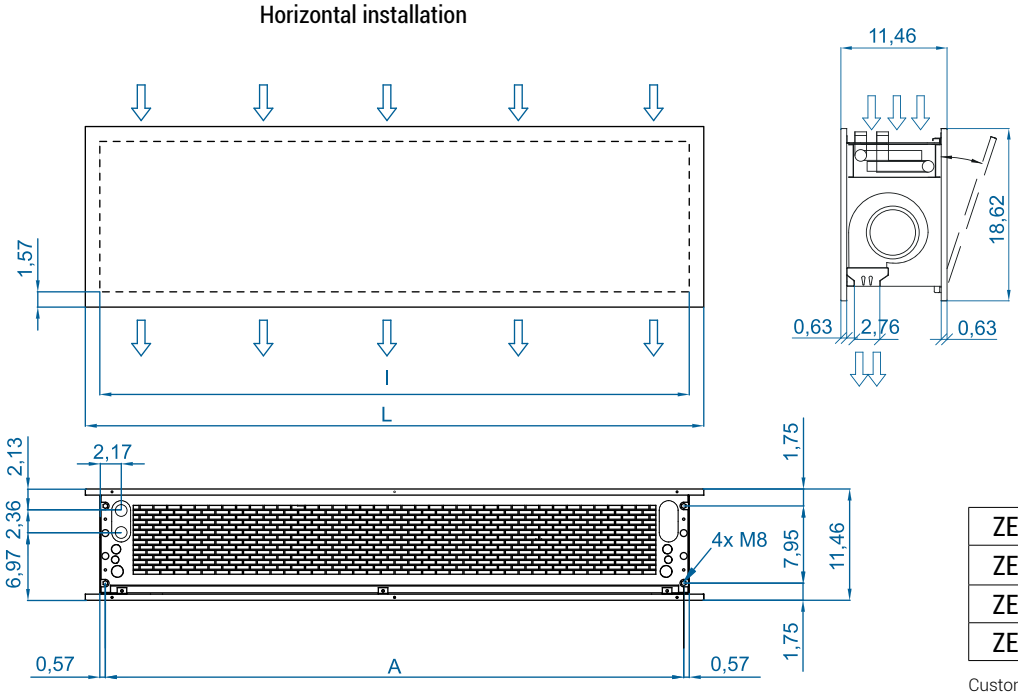
Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
ZEN G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,502	1,83	57	88,2
ZEN G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,669	2,44	58	125,7
ZEN G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	1,004	3,67	59	172
ZEN G 2500 P	3090	106,36	0,72	86,5	0,74	93,49	0,79	1,172	4,28	60	209,4
ZEN ECG 1000 P	1545	40,57	0,20	38,45	1,03	39,24	0,30	0,381	2,94	61	88,2
ZEN ECG 1500 P	2060	59	0,16	57,22	1,34	60,94	0,96	0,508	3,92	62	125,7
ZEN ECG 2000 P	3090	91,65	0,45	82,37	1,14	86,12	0,51	0,762	5,88	63	172
ZEN ECG 2500 P	3605	114,75	0,82	98,41	0,85	107,07	0,92	0,889	6,86	64	209,4

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

Dimensions

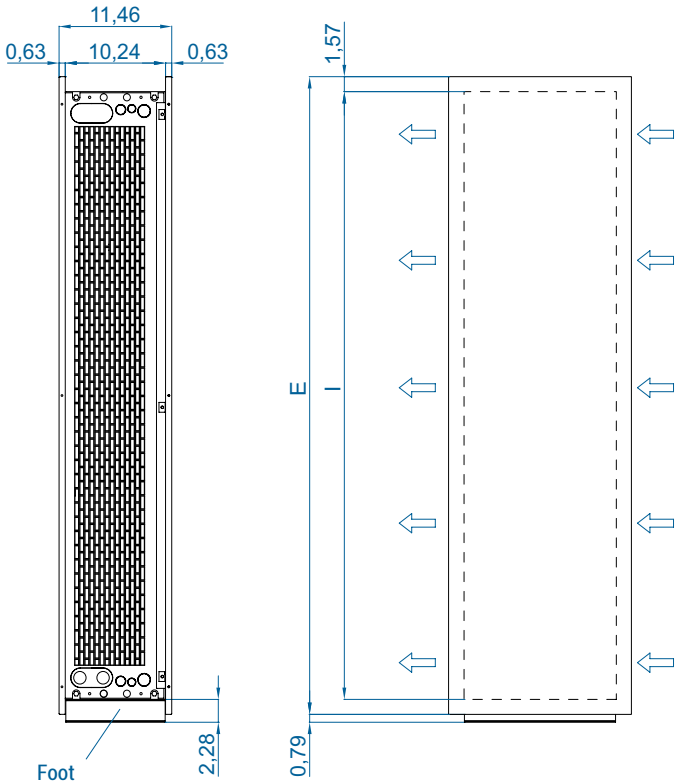
Horizontal installation



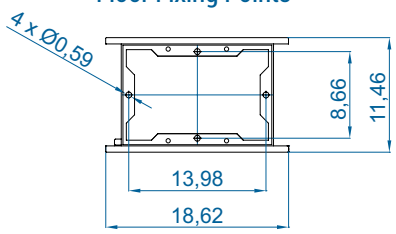
	L	I	A
ZEN 1000	48,03	44,88	43,89
ZEN 1500	63,78	60,79	59,65
ZEN 2000	83,46	80,47	79,33
ZEN 2500	103,15	100,16	99,02

Customizable dimensions on request.

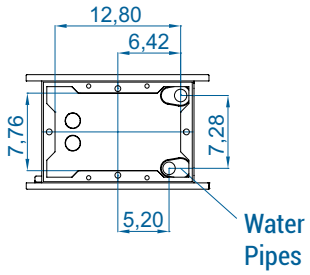
Vertical installation



Floor Fixing Points



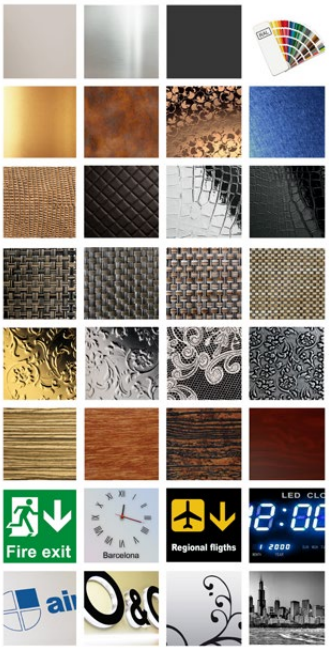
Space available for connections



CAD drawings, installation manuals and other documentation

Finishes

The front panel is designed to include graphics, logos, illuminated signs, signage, clocks or any other decorative element desired by the customer. Available in any colour from the RAL chart or in stainless steel.



standard / painted

decorative metals

crocco / leather

screen

vintage / floral

wood

signage

logos / images

WATCH VIDEO

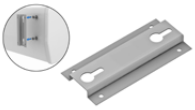
Optional accessories

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT



Omega wall support
SPT4

Wall angle support
Zen MG

Kit junction
SPJ-ZEN
middle and top

Support 180º Zen
straight arm

Foot support
SPF-ZEN
(Galv. / SS)

Control

IR Control
✔Included

Basic Control
✔ Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

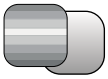
Sensors

Magnetic door contact
MAG-DC
✔Included

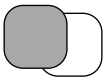
Mechanical door contact
MEG-DC

Technical Features

Faceted / Smooth



Standard RAL 9006 / 9016



SS Brushed / Polished

Other colors on request

Range
Up to 13,8 ft

Airflow / Length
1103 - 4473 cfm
3,2 ft to 9,8 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 7,5 - 30,5 kW
P : 30,13 - 140,14 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

[*] Customizable dimensions on request

RUND is a cylindrical, elegant and exclusive decorative air curtain. Vertically installed on one or both sides of the door; horizontally above the entrance or encompassing large distances, RUND air curtains integrate seamlessly with the surrounding environment as an architectural column element. Wide range of accessories and configurations available to suit any need that requires the installation. Multiple finishes that make it the decorative solution suitable for any interior design project. Available in two different casing finishes (faceted or completely smooth).Casing painted in RAL 9016 or RAL 9006 as standard. Other colors are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RUND G 1000 A	1368	0,332	1,61	56	101,4
RUND G 1500 A	1824	0,442	2,14	57	149,9
RUND G 2000 A	2737	0,663	3,21	58	196,2
RUND G 2500 A	3193	0,774	3,75	59	216,1
RUND G 3000 A	3649	0,884	4,28	60	238,1
RUND ECG 1000 A	1589	0,319	2,79	60	101,4
RUND ECG 1500 A	2119	0,425	3,72	61	149,9
RUND ECG 2000 A	3178	0,638	5,58	62	196,2
RUND ECG 2500 A	3708	0,744	6,51	63	216,1
RUND ECG 3000 A	4237	0,851	7,44	64	238,1

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
RUND G 1000 A	1457	0,395	1,65	57	101,4
RUND G 1500 A	1942	0,526	2,20	58	149,9
RUND G 2000 A	2913	0,789	3,30	59	196,2
RUND G 2500 A	3399	0,921	3,85	60	216,1
RUND G 3000 A	3884	1,052	4,40	61	238,1
RUND ECG 1000 A	1677	0,381	2,94	61	101,4
RUND ECG 1500 A	2236	0,508	3,92	62	149,9
RUND ECG 2000 A	3354	0,762	5,88	63	196,2
RUND ECG 2500 A	3914	0,889	6,86	64	216,1
RUND ECG 3000 A	4473	1,016	7,84	65	238,1

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RUND G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	119
RUND G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	178,6
RUND G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	235,9
RUND G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	260,1
RUND G 3000 E	3531	6,5/8/14,5	6/12/18	6,5/13/19,5	9,5/9,5/19	0,884	4,28	60	282,2
RUND ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	119
RUND ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	178,6
RUND ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	235,9
RUND ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	260,1
RUND ECG 3000 E	4237	6,5/8/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,851	7,44	64	282,2

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RUND G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	119
RUND G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	178,6
RUND G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	235,9
RUND G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	260,1
RUND G 3000 E	3766	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,052	4,40	61	282,2
RUND ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	119
RUND ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	178,6
RUND ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	235,9
RUND ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	260,1
RUND ECG 3000 E	4355	6,5/8/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	1,016	7,84	65	282,2

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RUND G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	56	114,6
RUND G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	169,8
RUND G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	220,5
RUND G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	240,3
RUND G 3000 P	2943	113,73	0,96	92,47	0,99	97,04	0,83	0,884	4,28	60	262,4
RUND ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	114,6
RUND ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	169,8
RUND ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	220,5
RUND ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	240,3
RUND ECG 3000 P	4002	137,68	1,35	113,15	1,41	120,79	1,22	0,854	7,63	64	262,4

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

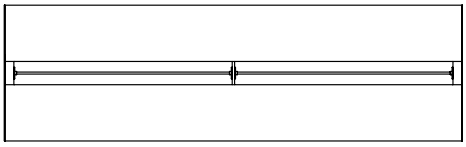
Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
RUND G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	57	114,6
RUND G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	169,8
RUND G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	220,5
RUND G 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	240,3
RUND G 3000 P	3531	127,48	1,18	104,34	1,22	110,62	1,04	1,052	4,40	61	262,4
RUND ECG 1000 P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	61	114,6
RUND ECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	169,8
RUND ECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	220,5
RUND ECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	240,3
RUND ECG 3000 P	4120	140,14	1,39	115,3	1,46	123,25	1,26	1,016	7,84	65	262,4

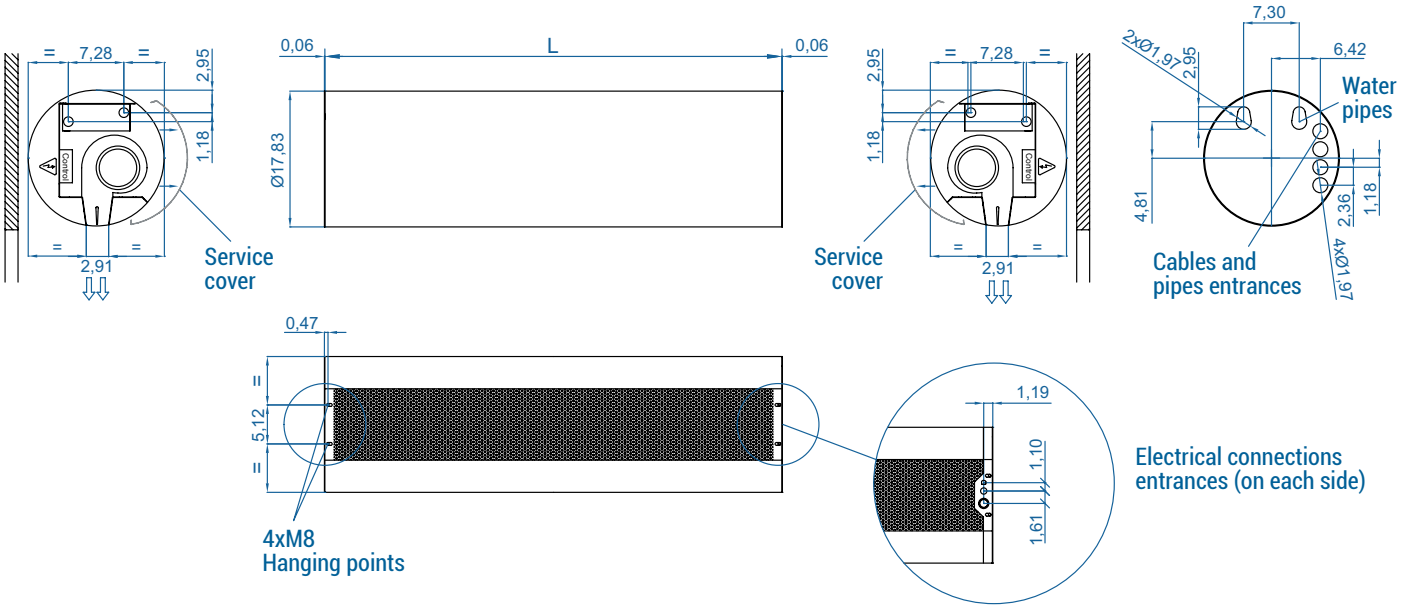
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

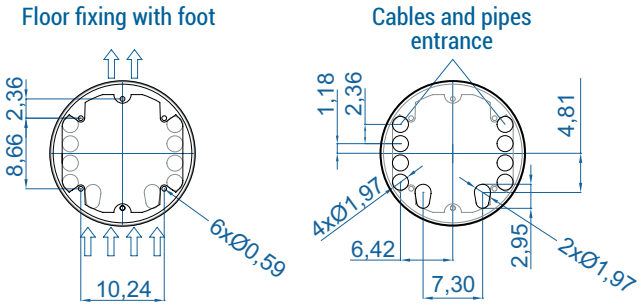
Dimensions

Horizontal installation



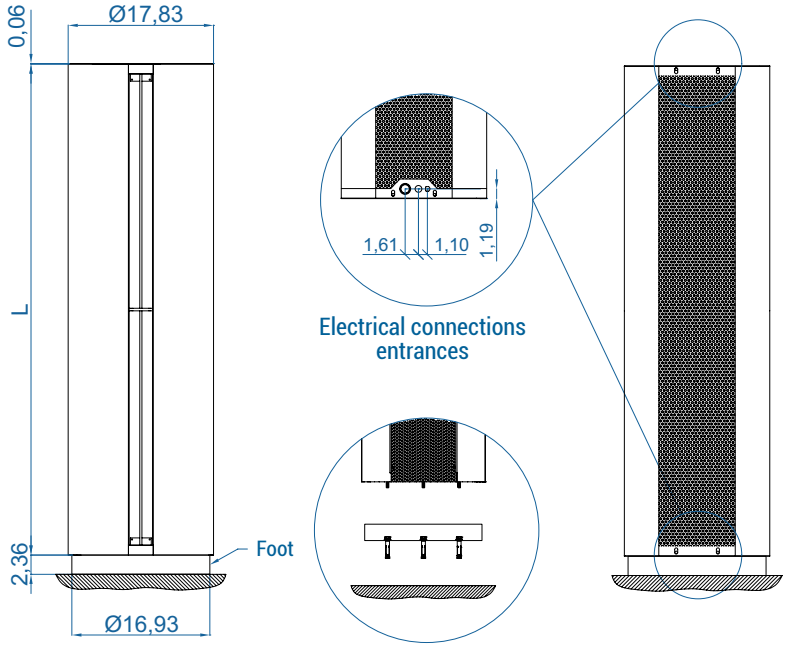


Vertical installation



	L
RUND 1000	40,35
RUND 1500	60,04
RUND 2000	79,92
RUND 2500	99,61
RUND 3000	117,32

Customizable dimensions on request.



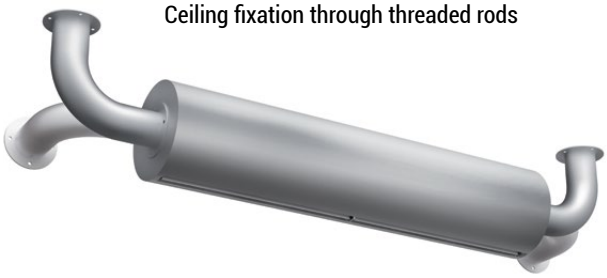
CAD drawings, installation manuals and other documentation

CAD

Installation configurations

Ceiling fixation through threaded rods

Wall/ceiling fixation through angle supports



Wall/ceiling fixation through arms

Floor fixation (goalpost)

Wall fixation through lateral arms

Optional accessories

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

180º straight arm
Rund

Round arm
Rund

Kit junction Rund
ceiling / wall

Side bracket Rund
ceiling / wall

Foot support
SPF-Rund
(Galv. / SS)

Control

IR Control
✔Included

Basic Control
✔Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

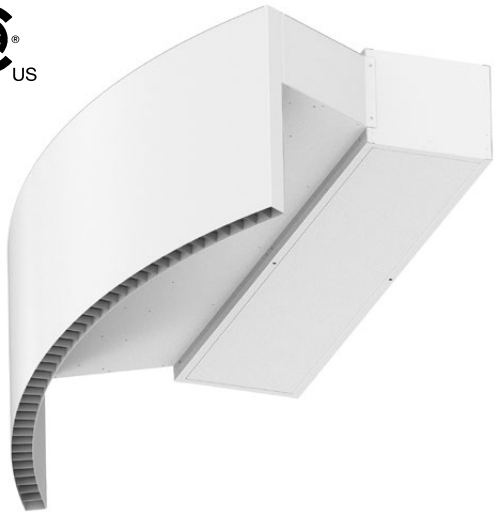
Interface kit
IN-NE-II

Sensors

Magnetic door contact
MAG-DC
✔Included

Mechanical door contact
MEG-DC

Technical Features



Range
Up to 13,8 ft

Airflow / Length
1103 - 3914 cfm
3,2 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
E : electrical 3 stages
P : water
A : unheated

Heating capacity
E : 7,5 - 30,5 kW
P : 30,13 - 116,8 kBtu/h

Control
Plug&Play manual regulator + IR remote control

Casing
Galvanised Steel [*]

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

RAL 9016 standard | Other colors on request | Stainless steel

[*] Customizable dimensions on request

ROTOWIND air curtains are custom designed to fit perfectly with the curvature of any revolving door. They can be mounted discreetly in two possible layout configurations, with tailored dimensions: standard (on top mounting) or inverted (false ceiling mounting).
Self-supporting casing construction finished in white colour RAL 9016 as standard. Other colours or stainless steel are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans. With large perforated inlet grille avoiding intensive maintenance.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also includes thermostat.

CSA certified.

UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
ROTO G 1000 A	1368	0,332	1,61	56	-
ROTO G 1500 A	1824	0,442	2,14	57	-
ROTO G 2000 A	2737	0,663	3,21	58	-
ROTO G 2500 A	3193	0,774	3,75	59	-
ROTO ECG 1000 A	1589	0,319	2,79	60	-
ROTO ECG 1500 A	2119	0,425	3,72	61	-
ROTO ECG 2000 A	3178	0,638	5,58	62	-
ROTO ECG 2500 A	3708	0,744	6,51	63	-

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
ROTO G 1000 A	1457	0,395	1,65	57	-
ROTO G 1500 A	1942	0,526	2,20	58	-
ROTO G 2000 A	2913	0,789	3,30	59	-
ROTO G 2500 A	3399	0,921	3,85	60	-
ROTO ECG 1000 A	1677	0,381	2,94	61	-
ROTO ECG 1500 A	2236	0,508	3,92	62	-
ROTO ECG 2000 A	3354	0,762	5,88	63	-
ROTO ECG 2500 A	3914	0,889	6,86	64	-

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
ROTO G 1000 E	1324	2,5/5/7,5	2,5/5/7,5	3/5,5/8,5	3,5/4/7,5	0,332	1,61	56	-
ROTO G 1500 E	1766	3,5/6,5/10	3,5/7/10,5	4/7,5/11,5	5/5,5/10,5	0,442	2,14	57	-
ROTO G 2000 E	2648	5/9/14	5/10,5/15,5	5,5/11/16,5	6,5/8/14,5	0,663	3,21	58	-
ROTO G 2500 E	3090	5,5/9/14,5	6/12/18	6,5/13/19,5	8/9,5/17,5	0,774	3,75	59	-
ROTO ECG 1000 E	1589	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,319	2,79	60	-
ROTO ECG 1500 E	2119	6/9,5/15,5	5,5/10,5/16	5,8/11,7/17,5	5,5/11/16,5	0,425	3,72	61	-
ROTO ECG 2000 E	3178	5/9/14	8/16,5/24,5	8,8/17,7/26,5	8/16/24	0,638	5,58	62	-
ROTO ECG 2500 E	3708	5,5/9/14,5	9,5/18,5/28	10,2/20,3/30,5	9,5/19/28,5	0,744	6,51	63	-

(*) Under request other electrical heating power can be limited.

For 208V~3ph~60Hz air Curtains there is only needed to connect three-phase power supply.
For the rest of air curtains, there is needed to connect both three-phase (for electrical heating) and single phase (for fans).

ELECTRIC HEATED 240V-1ph~60Hz

Model	Airflow	Electrical heating capacity (*) 208V-3ph~60Hz	Electrical heating capacity (*) 460V-3ph~60Hz	Electrical heating capacity (*) 480V-3ph~60Hz	Electrical heating capacity (*) 575V-3ph~60Hz	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
ROTO G 1000 E	1412	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,395	1,65	57	-
ROTO G 1500 E	1883	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,526	2,20	58	-
ROTO G 2000 E	2825	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,789	3,30	59	-
ROTO G 2500 E	3296	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,921	3,85	60	-
ROTO ECG 1000 E	1633	4/8/12	4/8/12	4,3/8,7/13	4/8/12	0,381	2,94	61	-
ROTO ECG 1500 E	2177	6/9,5/15,5	5,3/10,7/16	5,8/11,7/17,5	5,5/11/16,5	0,508	3,92	62	-
ROTO ECG 2000 E	3266	5/9/14	8,2/16,3/24,5	8,8/17,7/26,5	8/16/24	0,762	5,88	63	-
ROTO ECG 2500 E	3811	5,5/9/14,5	9,3/18,7/28	10,2/20,3/30,5	9,5/19/28,5	0,889	6,86	64	-

(*) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
ROTO G 1000 P	1103	33,75	0,15	30,13	0,73	30,23	0,21	0,332	1,61	56	-
ROTO G 1500 P	1471	48,79	0,11	44,63	0,94	46,75	0,65	0,442	2,14	57	-
ROTO G 2000 P	2207	76,06	0,32	64,35	0,80	66,2	0,35	0,663	3,21	58	-
ROTO G 2500 P	2575	94,99	0,59	76,7	0,59	82,13	0,63	0,774	3,75	59	-
ROTO ECG 1000 P	1501	40,57	0,20	36,61	1,03	37,36	0,30	0,320	2,86	60	-
ROTO ECG 1500 P	2001	59	0,16	54,49	1,34	58,07	0,96	0,427	3,81	61	-
ROTO ECG 2000 P	3001	91,68	0,45	78,45	1,14	82,06	0,51	0,640	5,72	62	-
ROTO ECG 2500 P	3502	114,78	0,82	93,77	0,85	102,02	0,92	0,747	6,67	63	-

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 208-1ph~60Hz

WATER HEATED 240V-1ph~60Hz

Model	Airflow	P86 (176/140°F)		P64 (140/104°F)		P54 (122/104°F)		Ventilation power (*)	Ventilation current (*)	Noise level (5 m)	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop				
	cfm	kBtu/h	psi	kBtu/h	psi	kBtu/h	psi	kW	A	dB(A)	lb
ROTO G 1000 P	1324	37,67	0,18	33,85	0,90	34,33	0,26	0,395	1,65	57	-
ROTO G 1500 P	1766	54,66	0,14	50,29	1,16	53,23	0,82	0,526	2,20	58	-
ROTO G 2000 P	2648	85,03	0,39	72,44	0,99	75,27	0,44	0,789	3,30	59	-
ROTO G 2500 P	3090	106,36	0,72	86,5	0,74	93,53	0,79	0,921	3,85	60	-
ROTO ECG 1000 P	1545	41,25	0,21	37,26	1,06	38,11	0,31	0,381	2,94	61	-
ROTO ECG 1500 P	2060	60,02	0,16	55,52	1,39	59,23	0,51	0,508	3,92	62	-
ROTO ECG 2000 P	3090	93,29	0,46	79,91	1,18	83,7	0,53	0,762	5,88	63	-
ROTO ECG 2500 P	3605	116,8	0,85	95,51	0,88	104,1	0,96	0,889	6,86	64	-

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.
(*) Voltage 240-1ph~60Hz

Selection program

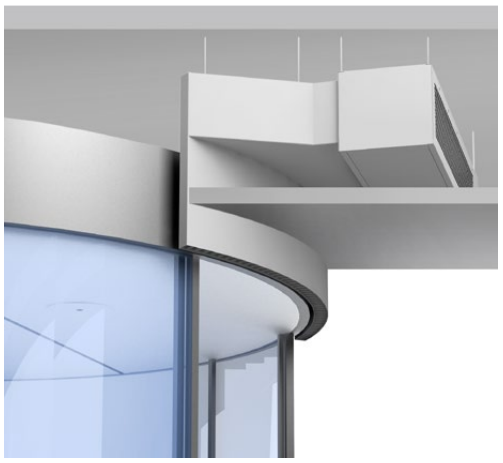
Installation configurations

Standard: Above de door

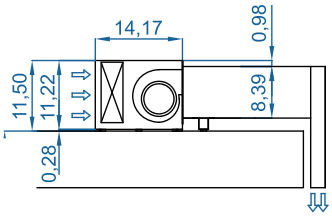
Mounted installation

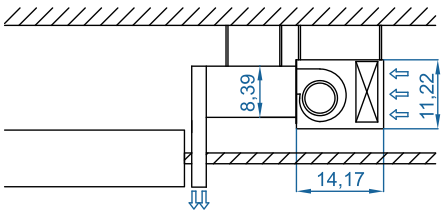
Hanging installation

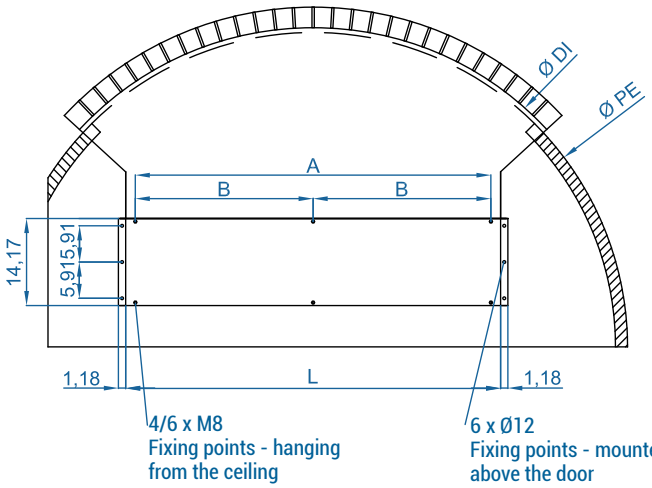
Inverted: False ceiling mounting

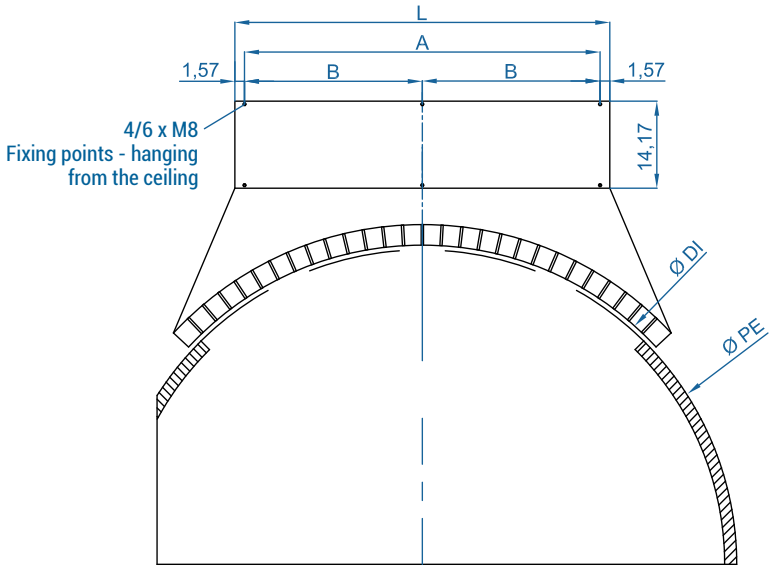


Dimensions









	L	I	A
ROTO 1000	41,34	38,19	-
ROTO 1500	61,02	57,87	28,94
ROTO 2000	80,91	77,76	38,88
ROTO 2500	100,59	97,44	48,72

Customizable dimensions on request.

Ø DI	Inside Outlet Diameter
Ø PE	External Door Diameter

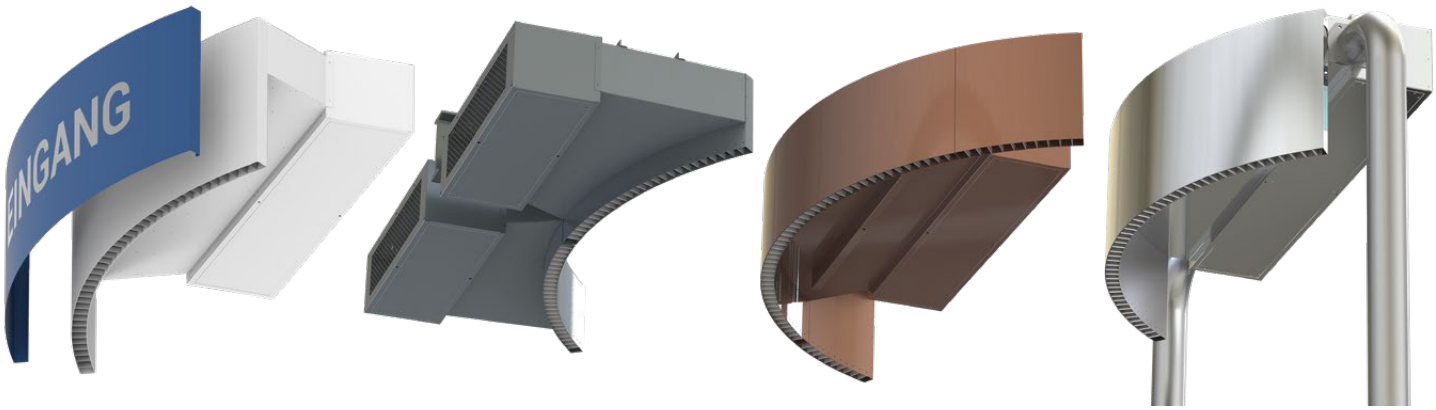
CAD drawings, installation manuals and other documentation

CAD

Tailor made finishes

ROTOWIND can be customized in the same color or material as the revolving door to match the interior or exterior aesthetics of the building. Optionally, it can be ordered with a front decorative cover, which can be painted in a different color or finish. It can also be customized with logos, graphics or signage.

Multiple options available for accessories and supports to adapt to the installation requirements.



Optional acessories

Supports and installation

Decorative front cover
(RAL Painted / SS)

Support angle
(top mounting)
✔ Included

Silentblock support
(top mounting)
✔ Included

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

Round arm
Rotowind

Control

IR Control
✔Included

Basic Control
✔Included

RJ45 Cable
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

Sensors

Magnetic
door contact MAG-DC
✔Included

Mechanical
door contact MEC-DC

Technical features

Range
Up to 13,8 ft

Airflow / Length
1089 - 4473 cfm
3,2 ft to 9,8 ft

Fans
Centrifugal
5-speed

Heating types
A : unheated

Heating capacity
-

Control
Plug&Play manual regulator
+ IR remote control

RAL 9016 standard

Stainless steel

Other colors on request

Casing
Galvanised Steel

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

KOOL unheated air curtain ensures a low turbulence high velocity air jet, thus efficiently separating spaces with high temperature differences.
With a compact timeless design provided with a large faceted inlet grille avoiding intensive maintenance. Casing and grill painted in RAL 9016. Other colors are available on request.

It works with double-inlet centrifugal fans driven by an external rotor motor and low noise level. EC models assembled with very low consumption efficiency fans. Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact.

CSA certified.

UNHEATED 208V-1ph~60Hz

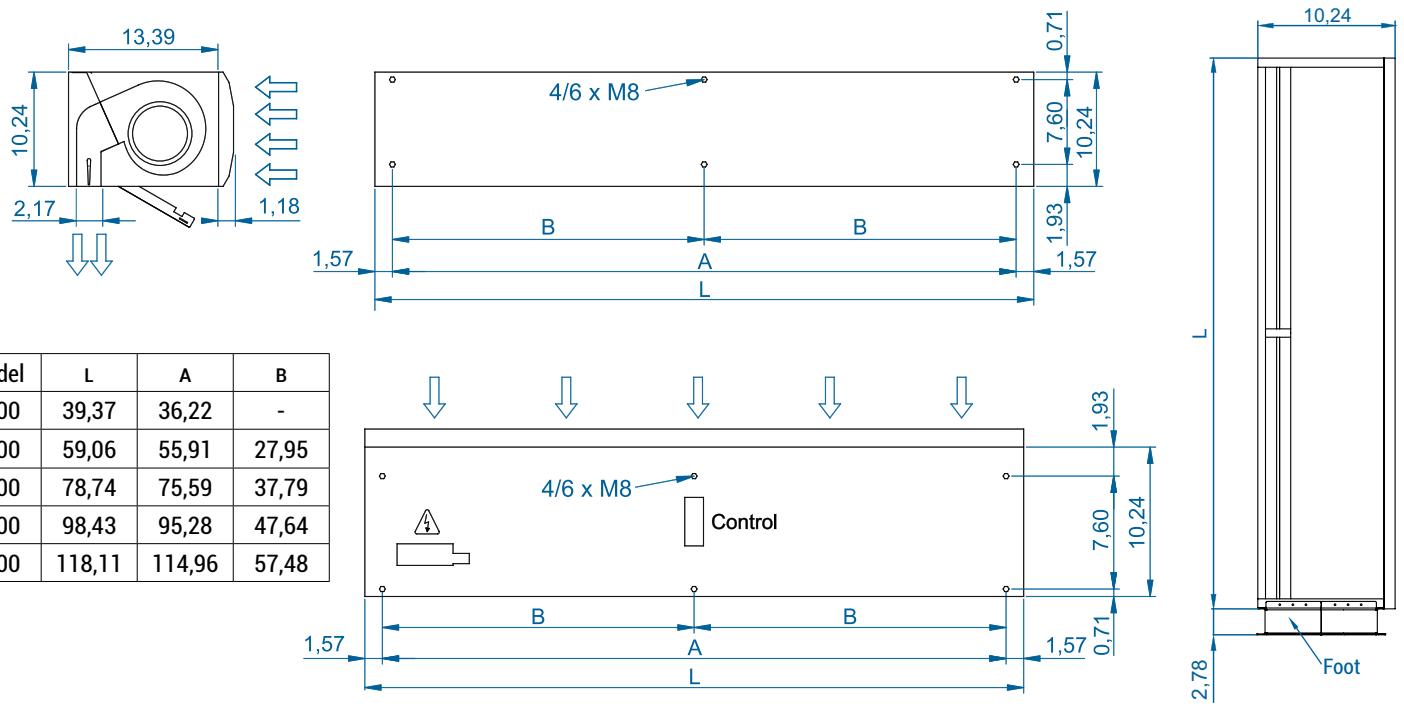
Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
KM 1000 A	1089	0,221	1,07	54	63,9
KM 1500 A	1633	0,332	1,61	55	97
KM 2000 A	2177	0,442	2,14	56	116,8
KM 2500 A	2722	0,553	2,68	57	127,9
KM 3000 A	3266	0,663	3,21	58	167,6
KG 1000 A	1368	0,332	1,61	56	81,6
KG 1500 A	1824	0,442	2,14	57	121,3
KG 2000 A	2737	0,663	3,21	58	156,5
KG 2500 A	3193	0,774	3,75	59	172
KG 3000 A	3649	0,884	4,28	60	189,6
KECG 1000 A	1589	0,319	2,79	60	81,6
KECG 1500 A	2119	0,425	3,72	61	123,5
KECG 2000 A	3178	0,638	5,58	62	156,5
KECG 2500 A	3708	0,744	6,51	63	172
KECG 3000 A	4237	0,851	7,44	64	189,6

UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
KM 1000 A	1177	0,263	1,10	55	63,9
KM 1500 A	1766	0,395	1,65	56	97
KM 2000 A	2354	0,526	2,20	57	116,8
KM 2500 A	2943	0,658	2,75	58	127,9
KM 3000 A	3531	0,789	3,30	59	167,6
KG 1000 A	1457	0,395	1,65	57	81,6
KG 1500 A	1942	0,526	2,20	58	121,3
KG 2000 A	2913	0,789	3,30	59	156,5
KG 2500 A	3399	0,921	3,85	60	172
KG 3000 A	3884	1,052	4,40	61	189,6
KECG 1000 A	1677	0,381	2,94	61	81,6
KECG 1500 A	2236	0,508	3,92	62	123,5
KECG 2000 A	3354	0,762	5,88	63	156,5
KECG 2500 A	3914	0,889	6,86	64	172
KECG 3000 A	4473	1,016	7,84	65	189,6

Selection program

Dimensions



Model	L	A	B
1000	39,37	36,22	-
1500	59,06	55,91	27,95
2000	78,74	75,59	37,79
2500	98,43	95,28	47,64
3000	118,11	114,96	57,48

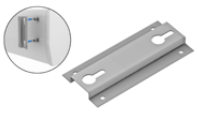
Optional accessories

Supports

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT



Omega wall support
SPT3

Foot support
SPF-KOOL
(Galv. / SS)

Joining kit
SPJ-KOOL
(Galv. / SS)

Control

IR Control
✔Included

Basic Control CA-5AW-IR
✔Included

Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

RJ45 Cable
✔Included

Sensors

Mechanical door contact
MEC-DC

Magnetic door contact
MAG-DC
✔Included

CAD drawings, installation manuals
and other documentation

CAD

Technical Features

Range
Up to 13,8 ft

Airflow / Length
1089 - 3914 cfm
3,2 ft to 8,2 ft

Fans
Centrifugal
5-speed

Heating types
A : unheated

Heating capacity
-

Control
Plug&Play manual regulator
+ IR remote control

RAL 9016 standard

Other colors on request

Casing
Galvanised Steel

Grille type
Micro-perforated with prefilter function

Outlet lamellas
Aluminium, airfoil type
Adjustable 0-15° each side

RECESSED COMPACT air curtain is specially designed for non-heating applications. This recessed low profile model has a diffuser grille with an integral view, and a self-supporting frame for installation in false ceilings. Its design is characterized by providing a full view of the inlet and outlet slatted grille, which is maintenance-free and is completely integrated into a single frame colour RAL 9016 Other colours are available on request.

This air curtain model works with double-inlet centrifugal fans driven by an external rotor motor with low noise level. EC models assembled with very low consumption efficiency fans.

Includes Plug&Play control with 23ft RJ45 cable, infrared remote control and magnetic door contact.

CSA certified.

UNHEATED 208V-1ph~60Hz

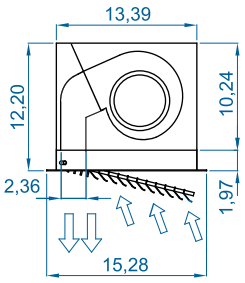
Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
CR M 1000 A	1089	0,221	1,07	54	72,8
CR M 1500 A	1633	0,332	1,61	55	110,2
CR M 2000 A	2177	0,442	2,14	56	134,5
CR M 2500 A	2722	0,553	2,68	57	149,9
CR G 1000 A	1368	0,332	1,61	56	81,6
CR G 1500 A	1824	0,442	2,14	57	121,3
CR G 2000 A	2737	0,663	3,21	58	156,5
CR G 2500 A	3193	0,774	3,75	59	172
CR ECG 1000 A	1589	0,319	2,79	60	81,6
CR ECG 1500 A	2119	0,425	3,72	61	123,5
CR ECG 2000 A	3178	0,638	5,58	62	156,5
CR ECG 2500 A	3708	0,744	6,51	63	172

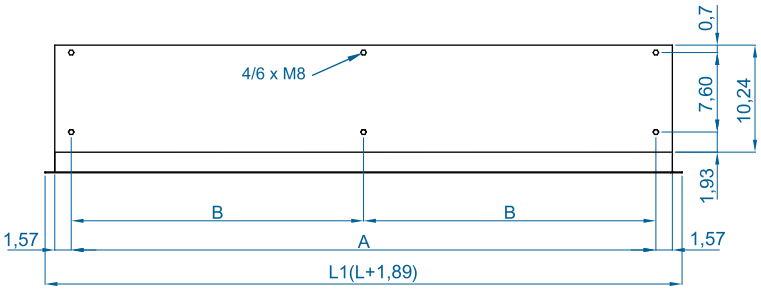
UNHEATED 240V-1ph~60Hz

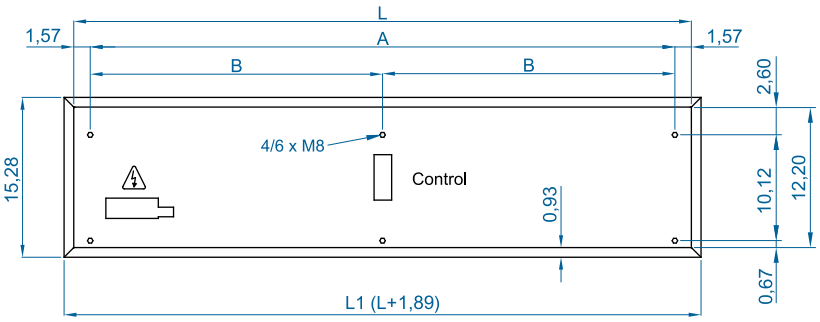
Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	cfm	kW	A	dB(A)	lb
CR M 1000 A	1177	0,263	1,10	55	72,8
CR M 1500 A	1766	0,395	1,65	56	110,2
CR M 2000 A	2354	0,526	2,20	57	134,5
CR M 2500 A	2943	0,658	2,75	58	149,9
CR G 1000 A	1457	0,395	1,65	57	81,6
CR G 1500 A	1942	0,526	2,20	58	121,3
CR G 2000 A	2913	0,789	3,30	59	156,5
CR G 2500 A	3399	0,921	3,85	60	172
CR ECG 1000 A	1677	0,381	2,94	61	81,6
CR ECG 1500 A	2236	0,508	3,92	62	123,5
CR ECG 2000 A	3354	0,762	5,88	63	156,5
CR ECG 2500 A	3914	0,889	6,86	64	172

Selection program

Dimensions







	L	L1	A	B
RC 1000	39,37	41,26	36,22	-
RC 1500	59,06	60,94	55,91	27,95
RC 2000	78,74	80,63	75,59	37,79
RC 2500	98,43	100,31	95,28	47,64

CAD drawings, installation manuals and other documentation

CAD

Optional accessories

Supports and installation

Wall rail support
SPWR

Silentblock supports
SPANG-SIL / SLB

Suspension cables
SPCT

Control

IR Control
✔Included

Basic Control CA-5AW-IR
✔ Included

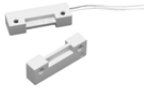
Hand-Auto
CH-5HW-NE

Interface kit
IN-NE-II

RJ45 Cable
✔Included

Sensors

Mechanical door contact
MEC-DC



Magnetic
door contact MAG-DC
✔Included

POWER COEFFICIENTS

Correction factors for water temperatures

Water heated air curtains

The technical data tables give the nominal heat capacity for warm water coils supplied with water at 176/140ºF, 140/104ºF and 122/104ºF with the air inlet temperature at 68ºF.

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	59ºF	64ºF	68ºF	Coil	Difference	Temperatures	59ºF	64ºF	68ºF
176/140 2 rows	68ºF	212/176	1,58	1,53	1,46	122/104 4 rows	68ºF	212/176	3,26	3,11	3,01
		194/158	1,35	1,27	1,22			194/158	2,79	2,64	2,54
		176/140	1,11	1,04	1,00			176/140	2,32	2,17	2,07
		158/122	0,89	0,82	0,78			158/122	1,83	1,69	1,59
		140/104	0,66	0,59	0,54			140/104	1,35	1,21	1,11
		131/95	0,54	0,47	0,42			122/86	0,85	0,68	0,58
	59ºF	212/185	1,72	1,64	1,59		59ºF	176/149	2,47	2,34	2,24
		194/167	1,47	1,40	1,35			158/131	2,01	1,86	1,77
		176/149	1,22	1,14	1,09			140/113	1,53	1,39	1,30
		158/131	0,97	0,90	0,86			122/95	1,05	0,91	0,83
		140/113	0,73	0,66	0,61			113/86	0,85	0,71	0,63
		122/95	0,48	0,40	0,35		50ºF	140/122	1,71	1,57	1,47
	50ºF	176/158	-	1,28	1,20			122/104	1,24	1,10	1,00
		158/140	1,09	1,02	0,97			104/86	0,77	0,62	0,53
		140/122	0,84	0,77	0,72						
		122/104	0,59	0,52	0,48						
		104/86	0,35	0,27	0,22						
140/104 3 rows	68ºF	212/176	2,86	2,71	2,62						
		194/158	2,45	2,30	2,21						
		176/140	2,03	1,89	1,81						
		158/122	1,61	1,48	1,40						
		140/104	1,21	1,08	1,00						
		122/86	0,80	0,67	0,59						
	59ºF	140/113	-	1,22	1,14						
		122/95	0,94	0,82	0,75						
	50ºF	104/86	0,69	0,57	0,49						

Airtècnics' standard coils can be used in a wide range of temperatures, although output parameters will vary. To get more information and check if certain coils will work for a particular installation, Airtècnics has an air curtain selection tool in its website.

This interactive tool is designed to help clients choose the right air curtain depending on the application and the water temperature, and can calculate the heating output of the standard coils in certain water temperature ranges.

Selection program

Example of heat capacity calculation:

Model M 2000 P 176/140ºF
Air inlet temperature 59ºF, Water temperature 194/158°F

HEAT CAPACITY	=	**Nominal Power (70,50 kBtu/h)**	x	**Coefficient (1,35)**	=	**95,15 kBtu/h**

EC TECHNOLOGY

EC Concept

EC technology (Electronically Commutated) consists of a direct current (DC) motor that incorporates a converter to be able to connect to alternating current (AC).
The static part of the fan (stator) includes an electronic board that transforms the AC to DC current and also allows regulating the fan speed proportionally from 0 to 100%.
EC motor have no slippage losses, thus increasing efficiency versus AC motor.

EC Motor Principle

- DC motor with permanent magnets in the rotor.
- An electronic board controls the electronic switches that replace the carbon brushes.
- An electronic system recognizes the position and direction of rotation of the rotor (software, Hall effect sensors).
- Power supply with alternating current, valid for 50Hz or 60Hz indistinctly.

Advantages and benefits

EC air curtains are extremely efficient reducing the running cost of the ventilation up to 65% using EC instead of AC fans.

- Energy saving: high efficiency, reducing consumption compared to an AC.
- Longer life because the motor works at a lower temperature than an equivalent AC.
- Control: proportional fan speed 0-100% easily controllable with 0-10V regulation.
- Simplicity: 50Hz or 60Hz indistinctly, electronic transformation and power are completely integrated in the motor.

Available EC Air Curtains:

Windbox ECM-ECG, Smart, Kool, Recessed Windbox, Dam, Recessed Dam, Variwind, Recessed Compact, Rund, Zen, Rotowind, Invisair, Windbox BB, Recessed Windbox BB, Zen BB, Invisair BB, Rotowind BB and Kool BB.

EC vs AC air curtain - energy saving up to 65%

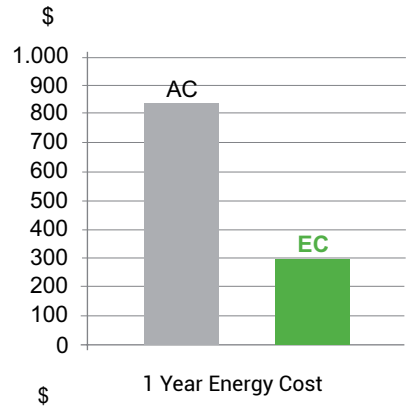
How much money can I save using an EC Air curtain?

Example:

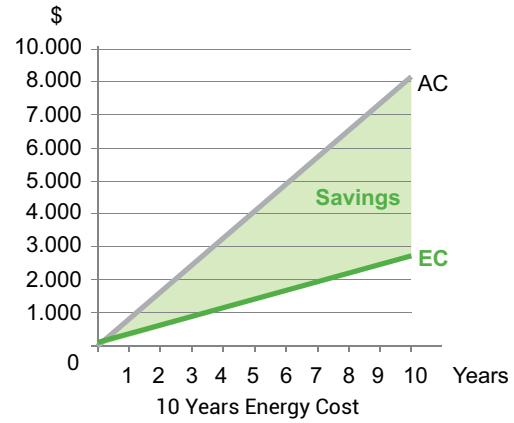
Door dimension: 6,5 ft width by 12,5 ft height
Running time: 12 hours/day, 6 days/week, 50 weeks (~ 1 year)
Energy cost: 0,05 $/kBtu (EU-27 average cost)
Selected unit: AC: G 2000, EC: ECG 2000

	AC Air Curtain		EC Air Curtain		Difference
Total Fans Power	4,381	kBtu/h	1,535	kBtu/h	- 2,846 kW
Air Curtain Price	2.684	$/unit	3.357	$/unit	+ 673 $
Energy Consumption	15.761	kBtu	5.527	kBtu	- 10.234 kBtu
Energy Cost	844	$	295	$	- 549 $
CO2 Emissions	4.076	lb	1.429	lb	- 2.648 lb

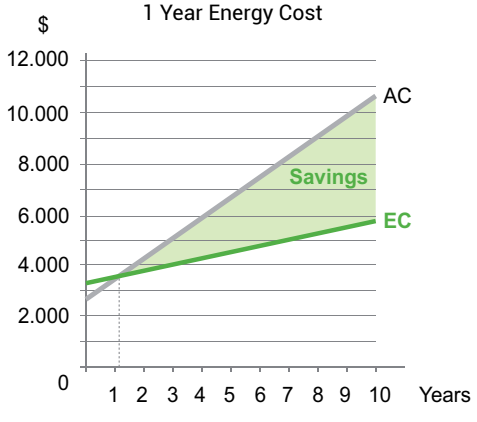
Result:
The payback periode is 1 year and 3 months. In addition, 65% of energy and CO2 emissions to the environment are saved every year.



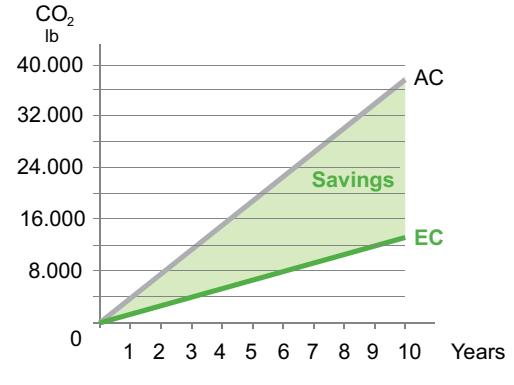
1 Year Energy Cost



10 Years Energy Cost



Payback Periode



10 Years CO2 Emissions

CONTROL AND REGULATION

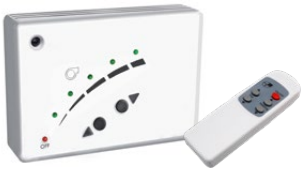
Basic regulation

Control panels designed for easy and quick Plug & Play RJ45 cable connection.
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).

5-speed range controls

Infrared remote control included. Suitable for air curtains: Windbox MG, Recessed Windbox, Dam, Recessed Dam, Invisair, Smart, Zen, Rund, Rotowind, Kool, Recessed Compact (optional).

CA-5AW-IR
Only air, 5 fan speed



CW-5AW-IR
Water heated, 5 fan speed and electro-valve switch

CE-5AW-IR
Electrical heated, 5 fan speed and 3 heating stages

Optional controls

Hand Auto

Water heated: with manual and automatic operating. Auxiliary functions: anti-freezing sensor, door contact (with delay) and room thermostat.

Unheated: with manual and automatic operating, without auxiliary functions.

CH-5HW-NE

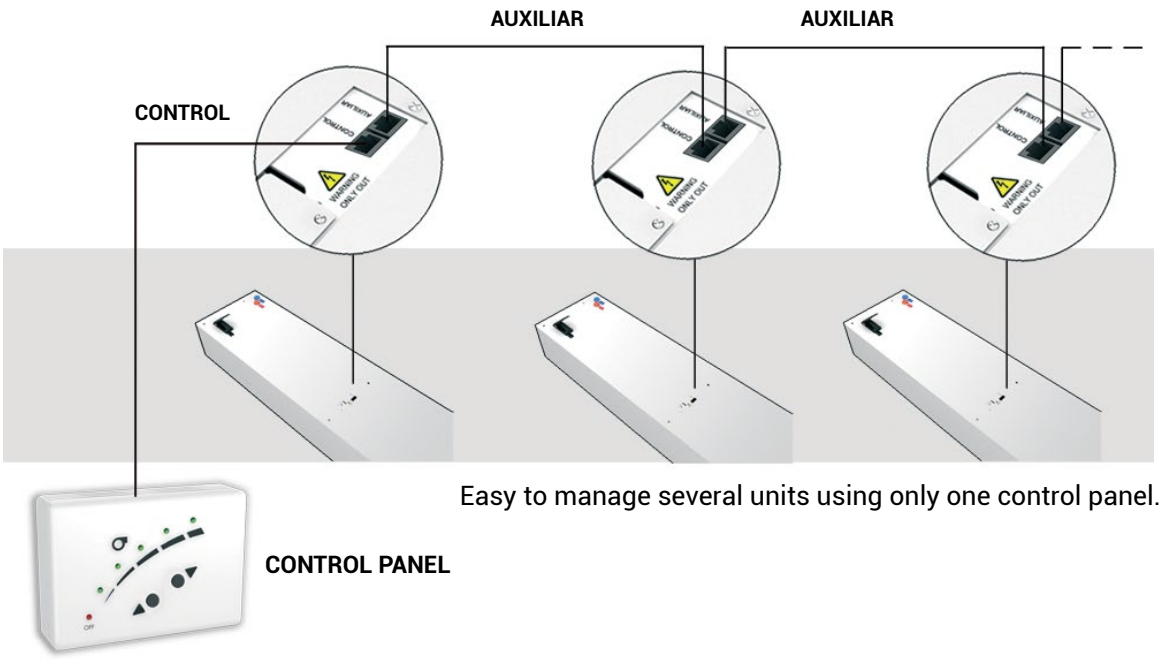
Interface

Allows the connection to a centralized management system like BMS and also to standard controllers.

IN-NE-II

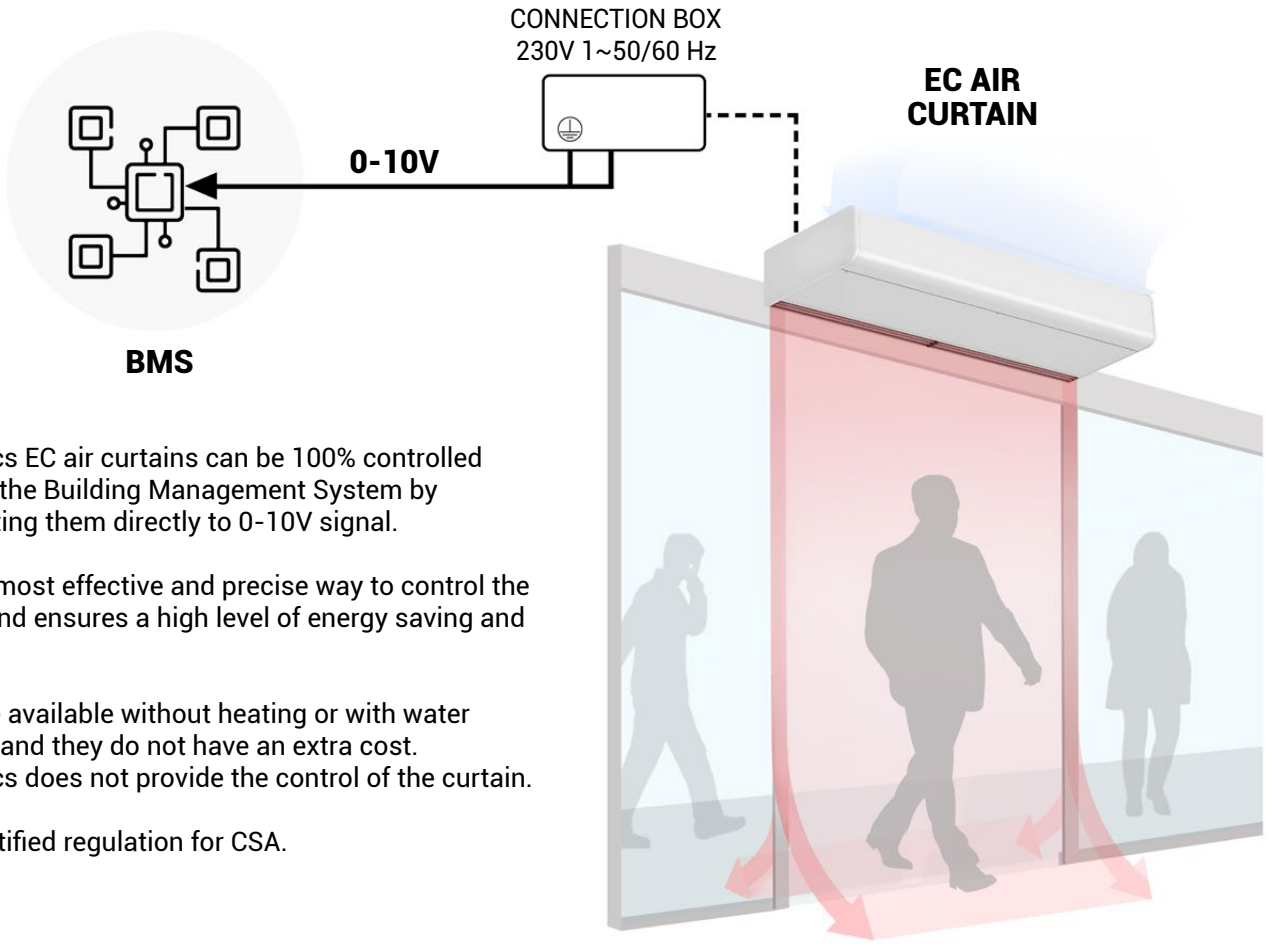
CONTROL AND REGULATION

Multiple air curtains connection (Basic and advanced regulation)



Easy to manage several units using only one control panel.

0-10V connection for BMS (Optional)



Airtècnics EC air curtains can be 100% controlled through the Building Management System by connecting them directly to 0-10V signal.

It is the most effective and precise way to control the device and ensures a high level of energy saving and comfort.

They are available without heating or with water heating, and they do not have an extra cost. Airtècnics does not provide the control of the curtain.

Non-certified regulation for CSA.

Clever Control - Advanced regulation

INTELLIGENT PROACTIVE REGULATION

Air curtains regulation is essential to substantially reduce energy consumption.

Our latest technology control system allows to manage the operation of the air curtains automatically according to each situation, maintaining indoors comfort with maximum energy savings.

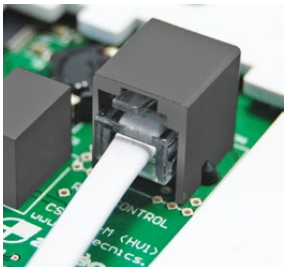
Clever control automatically adapts the functioning of the air curtain to the entrance conditions, mantaining comfort while saving energy. It optimizes the ventilation and heating to make an efficient barrier for an optimal climate separation.

Basic and advanced modes

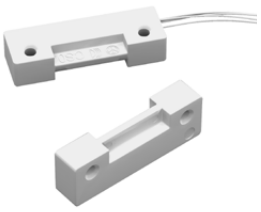
BMS

Connectivity Modbus BMS

Easy Plug & Play installation



Regulation with valves: thermostatic, solenoid,



Ambient thermostat and external temperature sensors

CONTROL AND REGULATION

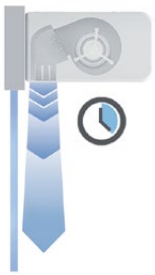
Features

USER FRIENDLY DESIGN

Multilanguage and intuitive icons for easy understanding.
Main state screen: ventilation speed, heating, temperatures, door state, working mode and program, filter state, day/hour, timer, etc. 3 different menu configurations depending on who is managing the equipment.

FILTER ALARM

Indicates when filter needs replacing/cleaning. 2 options: by "Timer"of functioning hours or by "Pressure Sensor" switch.

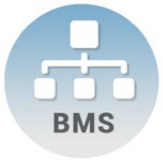


ADAPTIVE DOOR DELAY

Air curtain delay: when the door closes, the air curtain remains working at door open conditions for certain time to be ready if it opens again.
Door opening delay: the door remains closed until the air curtain achieve the nominal speed.

TIMER

To turn ON or OFF automatically the unit depending on each different day of the week or predefined groups of days. User can select between Day or Night modes with 2 different Set temperatures.



COMPATIBLE

BMS communication with Modbus RTU protocol or using digital and analogical IN/OUT to control or monitor directly the unit.

ENERGY SAVING

3 grades of comfort and energy efficiency.

FULLY PROGRAMMABLE

All parameters can be configured at Basic or Advanced menu.
Lots of extra functions to fulfill all clients applications. Customizable device names for easy identification.

MULTI-EQUIPMENT

Clever works with different types of units: air curtains, fan heater, AHU, etc. Once programmed, PCB can work by itself without any controller.

- Clever Control is factory adjusted according to the device/s and client requirements.
- Once installed, the system checks automatically all connected units and its temperature sensors.
- Different integrated programs and functions for particular applications.
- Multiple programs depending on installed temperature sensors: inside, outside and air jet.
- Able to regulate by itself the ventilation and heating depending on: door state, temperature sensors, selected working mode, grade of energy saving, program and other parameters.
- Alarms: general, filter state, anti freezing, overheating, fans overheating, airflow, fire, external, heating locked, etc.
- Security control buttons lock option by code.
- Modulating valve for water heated (includes 24VDC power supply).
- Multiple functions: temporized door, excessive temperature of water return, cooling mode and others.

GALLERY

Windbox
Classic standard design

Smart
Elegant and discreet design with hidden inlet grille

Dam
With smooth customizable front panel in a fashion store

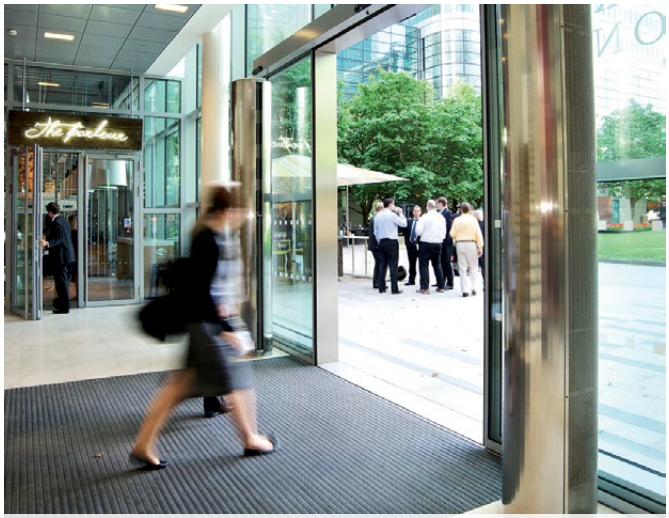
Dam Twin
System with two curtains for adverse situations

Zen
Elegant with aluminium panels in an offices building

Zen
Exclusive design with custom finishes

GALLERY

Zen
With wood panels in a chain restaurant

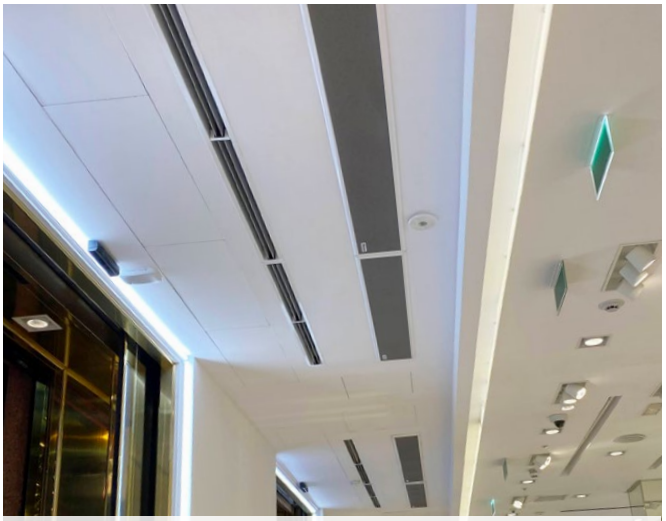


Rund
Rounded, vertical and in stainless steel design

Rund
Tailor made-linear installation for large openings

Rund
Installation with special goalpost supports

Recessed Windbox
Integration in false ceiling in a shopping center

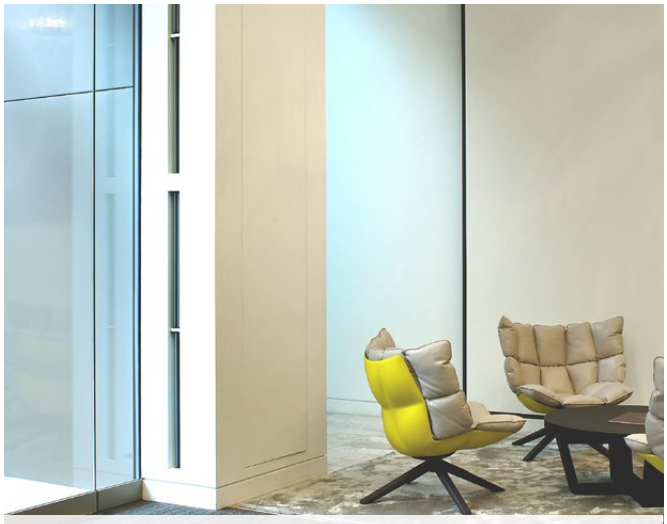


Windbox M,G
Invisible installation with false ceiling kit

GALLERY

Recessed Dam
Model with exposed inlet grille

Invisair
Fully invisible horizontal installation integrated in a bulkhead



Invisair
Fully invisible vertical installation integrated in a bulkhead

Rotowind
Special solution for glass revolving doors

Rotowind
Tailor-made design for all types of revolving doors

Rotowind
Tailor-made design for all types of revolving doors

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Production for world renowned brands

See all references

See all installation photos

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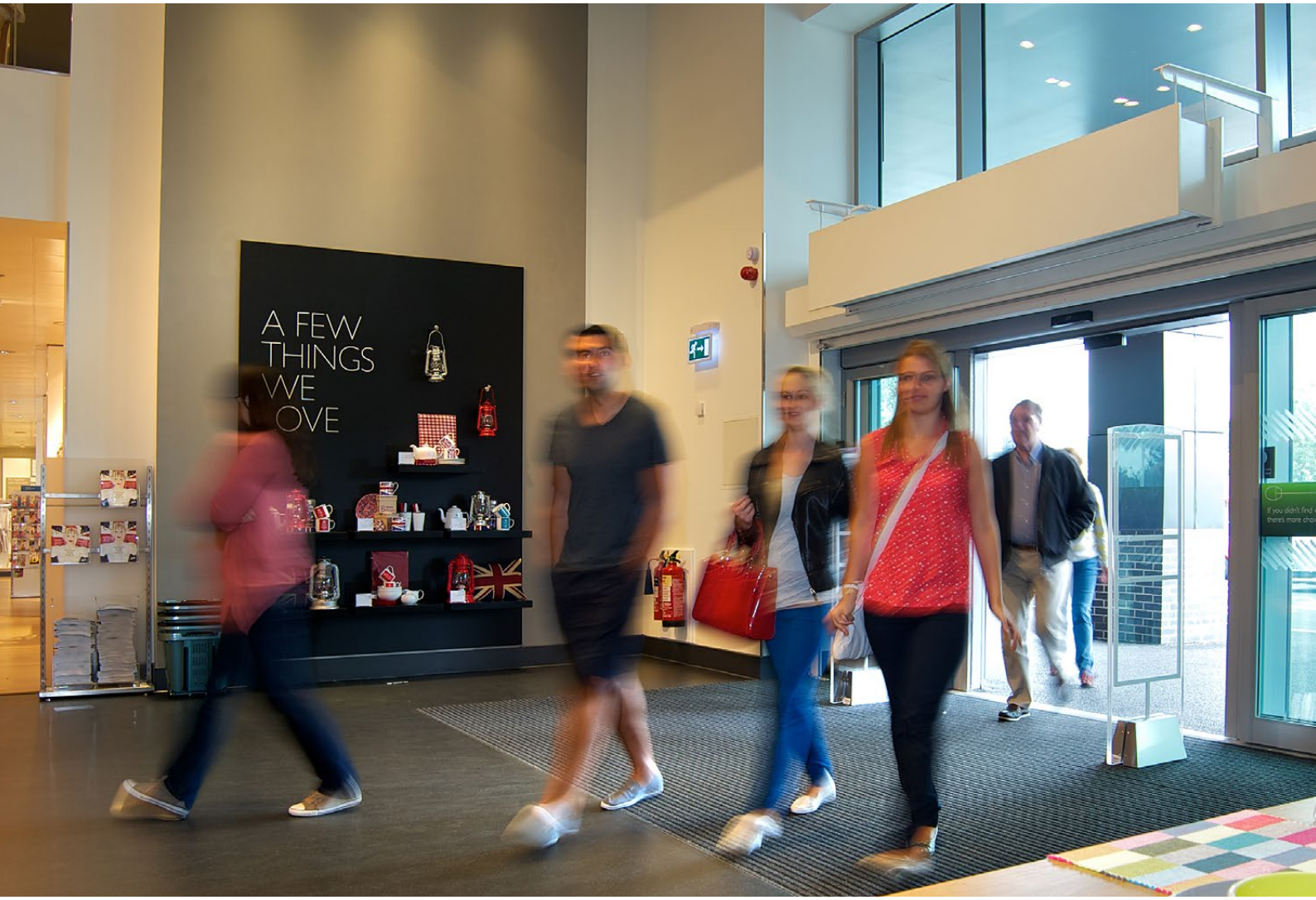

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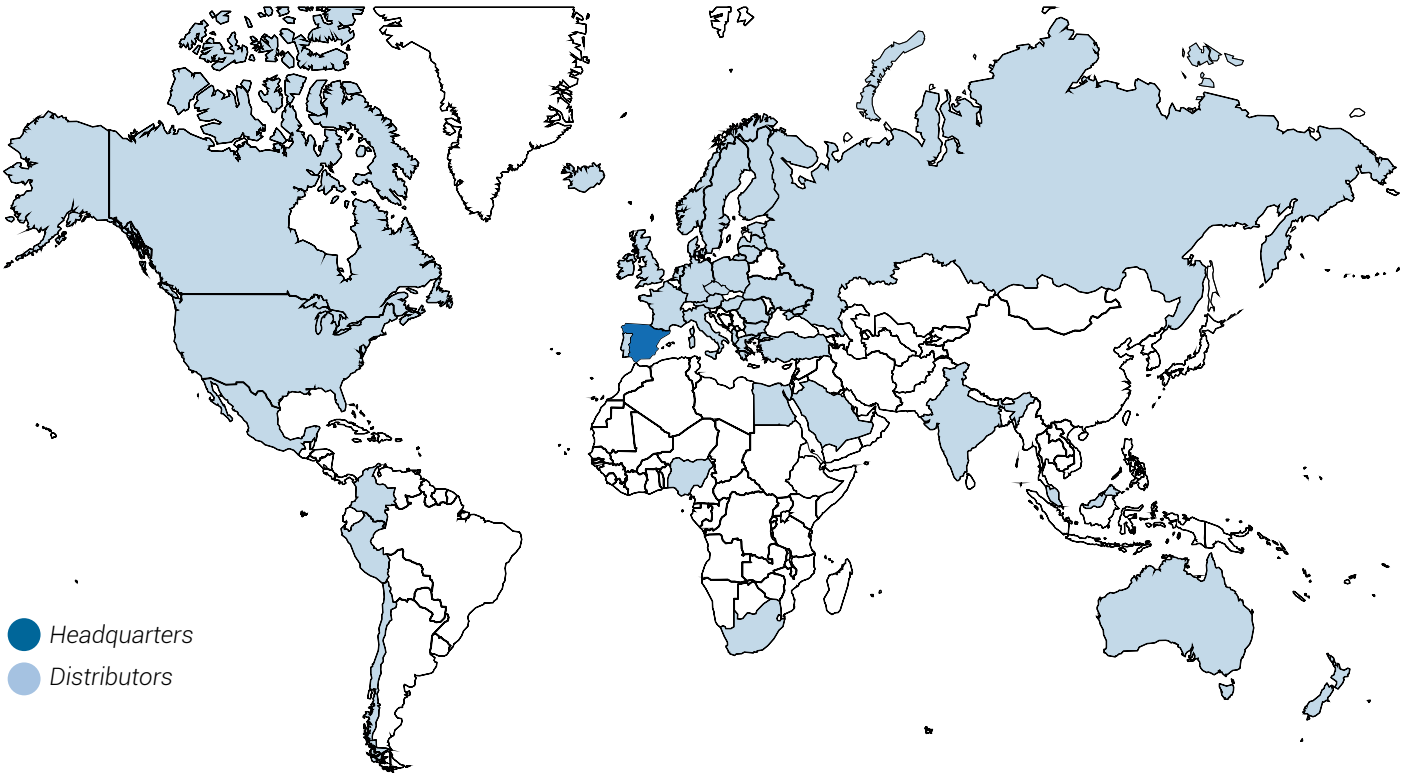

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