



AIR CURTAINS FOR CLIMATE SEPARATION

Catalogue



 **airtecnic**
North America

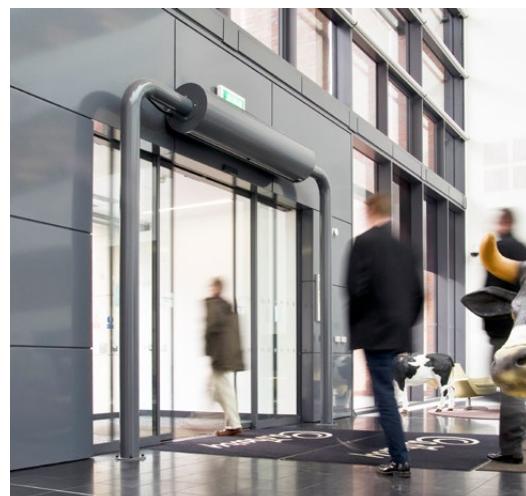


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INTRODUCTION

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.



Rosenberg headquarters in Künzelsau (Germany)

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
- Experienced 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.



INTRODUCTION



Benefits of air curtains



Energy saving

- Reduces running cost and energy losses from the premises
- Reduce central plant capacity (heating/cooling)
- Reduces the CO₂ emission
- Compliance with regulations and certifications



Confortable and healthy atmosphere

- Increases customers and staff comfort
- Helps maintain air quality and adequate environment
- 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)

PROTECT FROM:

Heat and cold
from outside

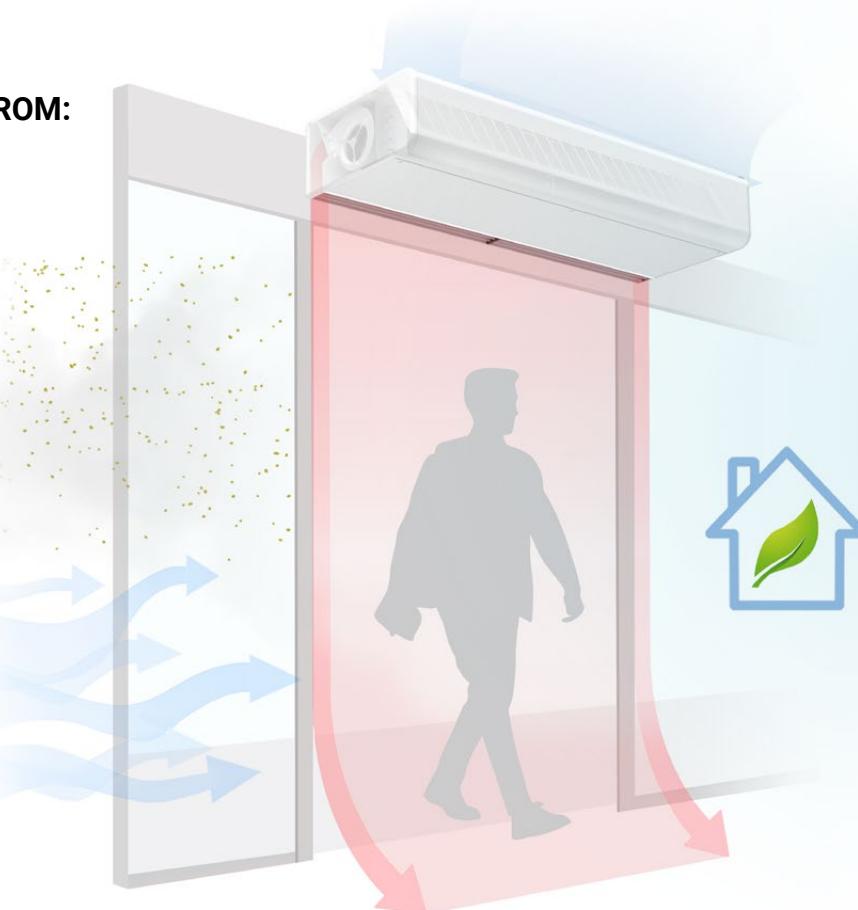
Airborne
dust

Smoke
and fumes

Pests and
insects

Bad odours

Wind drafts



Thermal comfort
(heating /cooling)

Energy
efficiency

Air quality
and security

Commercial
profitability

Visibility and
accessibility

Compliance with
regulations

INTRODUCTION



Airtècnics air curtains

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.

Certified air curtains



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 certified CSA, 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.

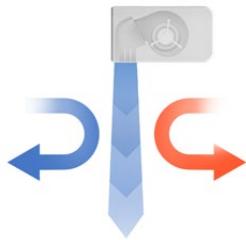
Online calculator: Estimates the energy and economic savings resulting from the use of an efficient air curtain in a door.

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.

AIR CURTAINS MODELS



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 losses 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 Airtécnics' 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	M	8.2 - 11.5 ft	• • •	Medium and large sized commercial doors with a high pedestrian flow.
Invisair *	G	9.8 - 13.1 ft	• • •	Climate separation and protection against dust, fumes, and pollutants. Isolation and sealing of smoking areas.
Smart				
Zen *				
Rund *	ECG	9.8 - 13.8 ft	• • •	Multiple installation and false ceiling configurations.
Rotowind *				
Kool **				
Recessed Compact **				

(A) Unheated, (E) Electric Heating, (P) Water Heating

* Not available in M version

** Kool and Recessed Compact are available only in unheated version (only air)

AIR CURTAINS MODELS



Model	Page	Model	Page
WINDBOX 	08-13	ROTOWIND 	48-52
RECESSED WINDBOX 	14-17	KOOL 	53-55
DAM 	18-23	RECESSED COMPACT 56-58	
RECESSED DAM 	24-27	High pressure recessed air curtains for commercial and industrial doors	
INVISAIR 	28-32		
SMART 	33-37		
ZEN 	38-42		
RUND 	43-47		
High pressure standard air curtains for commercial doors		High pressure standard air curtains for commercial and industrial doors	
High pressure recessed air curtains for commercial doors		High pressure recessed air curtains for commercial and industrial doors	
High pressure recessed air curtains for commercial doors			
High pressure standard air curtains for commercial doors			
High pressure decorative air curtains for commercial doors			
High pressure decorative air curtains for commercial doors			



Technical Features

RAL 9016
standardOther colors
on requestStainless
steelRange
Up to 13.8 ftAirflow / Length
920 - 4100 cfm
3.2 ft to 10.5 ftFans
Centrifugal
5-speedHeating types
E : electrical 3 stages
P : water
A : unheatedHeating capacity
E : 2 - 30.5 kW
P : 24.33 - 136.14
kBtu/hControl
A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote controlCasing
Galvanised Steel [*]Grille type
Micro-perforated
with prefilter functionOutlet 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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

Certifications

(1) AMCA Certified:



Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 vestibule exception validated by AMCA certification. Refer to Velocity Projection Chart below for information.

Airtècnics certifies that the air curtains shown here in are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Rated data shown is for base (unheated) units. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only.



AMCA Certified VELOCITY PROJECTION: Model Windbox ECG 1000A-240V 60Hz				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1518	1120	957	817
Uniformity (%)	84%	93%	95%	93%



	Core Velocity	Uniformity
0	1518fpm	84%
40	1120fpm	93%
80	957fpm	95%
120	817fpm	93%
160		

CSA Certified:





⌘ UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
M 1000 A (')	955	0.238	1.14	58	3132	2300	54	68
M 1500 A (')	1430	0.357	1.70	58	3132	2300	55	101
M 2000 A (')	1910	0.476	2.27	58	3132	2300	56	128
M 2500 A (')	2385	0.595	2.84	58	3132	2300	57	159
M 3000 A (')	2860	0.714	3.41	58	3132	2300	58	190
G 1000 A	1265	0.357	1.70	-	-	-	56	95
G 1500 A	1685	0.476	2.27	-	-	-	57	112
G 2000 A	2525	0.714	3.41	-	-	-	58	176
G 2500 A	2950	0.833	3.97	-	-	-	59	185
G 3000 A	3370	0.952	4.54	-	-	-	60	209
ECG 1000 A (')	1450	0.350	2.63	91	3144	2750	60	95
ECG 1500 A (')	1920	0.466	3.50	91	3144	2750	61	112
ECG 2000 A (')	2880	0.699	5.25	91	3144	2750	62	176
ECG 2500 A (')	3360	0.816	6.13	91	3144	2750	63	185
ECG 3000 A (')	3840	0.932	7.00	91	3144	2750	64	209

⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
M 1000 A (')	1020	0.293	1.20	58	3238	2400	55	68
M 1500 A (')	1520	0.439	1.80	58	3238	2400	56	101
M 2000 A (')	2030	0.585	2.40	58	3238	2400	57	128
M 2500 A (')	2530	0.732	3.00	58	3238	2400	58	159
M 3000 A (')	3040	0.878	3.60	58	3238	2400	59	190
G 1000 A	1350	0.439	1.80	-	-	-	57	95
G 1500 A	1800	0.585	2.40	-	-	-	58	112
G 2000 A	2700	0.878	3.60	-	-	-	59	176
G 2500 A	3140	1.024	4.20	-	-	-	60	185
G 3000 A	3580	1.171	4.80	-	-	-	61	209
ECG 1000 A (')	1530	0.454	3.00	87	3375	3016	61	95
ECG 1500 A (')	2050	0.573	3.70	91	3252	2868	62	112
ECG 2000 A (')	3060	0.908	6.00	87	3374	3016	63	176
ECG 2500 A (')	3600	1.027	6.70	89	3300	2927	64	185
ECG 3000 A (')	4100	1.146	7.40	91	3252	2868	65	209

(') AMCA Certified.



ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical	Electrical	Electrical	Electrical	Ventilation	Ventilation	Noise	Weight
		heating capacity (¹)	heating capacity (²)	heating capacity (³)	heating capacity (⁴)	power 208V-1ph ~60Hz	current 208V-1ph ~60Hz		
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
M 1000 E (¹)	940	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	82
M 1500 E (¹)	1400	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	126
M 2000 E (¹)	1875	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	165
M 2500 E (¹)	2340	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	207
M 3000 E (¹)	2810	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	58	247
G 1000 E	1250	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	115
G 1500 E	1660	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	139
G 2000 E	2500	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	220
G 2500 E	2910	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	234
G 3000 E	3320	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	265
ECG 1000 E (¹)	1425	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	115
ECG 1500 E (¹)	1900	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.466	3.50	61	139
ECG 2000 E (¹)	2850	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	220
ECG 2500 E (¹)	3320	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.816	6.13	63	234
ECG 3000 E (¹)	3800	6.5/8/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.932	7.00	64	265

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	Electrical	Electrical	Electrical	Ventilation	Ventilation	Noise	Weight
		heating capacity (¹)	heating capacity (²)	heating capacity (³)	heating capacity (⁴)	power 240V-1ph ~60Hz	current 240V-1ph ~60Hz		
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
M 1000 E (¹)	995	2.5/5/7.5	3.3/6.7/10	3.7/7.3/11	3.5/7/10.5	0.293	1.20	55	82
M 1500 E (¹)	1500	3/6.5/9.5	4.8/9.7/14.5	5.2/10.3/15.5	5/10/15	0.439	1.80	56	126
M 2000 E (¹)	2000	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	165
M 2500 E (¹)	2500	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	207
M 3000 E (¹)	3000	6.5/8/14.5	9.3/18.7/28	10.3/20.3/30.5	9.5/19/28.5	0.878	3.60	59	247
G 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	115
G 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	58	139
G 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	220
G 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	60	234
G 3000 E	3540	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.171	4.80	61	265
ECG 1000 E (¹)	1500	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	115
ECG 1500 E (¹)	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.573	3.70	62	139
ECG 2000 E (¹)	3000	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	220
ECG 2500 E (¹)	3500	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.027	6.70	64	234
ECG 3000 E (¹)	4000	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.146	7.40	65	265

(¹) AMCA Certified.

(²) Under request other electrical heating power can be limited.



WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	920	24.33	0.02	26.68	0.59	26.49	0.16	0.185	1.80	55	77
M 1500 P	1340	46.78	0.10	42.69	0.87	44.56	0.60	0.278	2.70	56	117
M 2000 P	1840	67.73	0.26	56.91	0.64	57.90	0.28	0.370	3.59	57	152
M 2500 P	2300	88.31	0.51	70.97	0.52	75.54	0.54	0.463	4.49	58	190
M 3000 P	2800	108.98	0.89	88.41	0.91	92.47	0.76	0.555	5.39	59	227
G 1000 P	1210	29.52	0.03	31.94	0.81	32.21	0.23	0.278	2.70	55	77
G 1500 P	1620	51.69	0.12	47.39	1.05	49.92	0.73	0.370	3.59	56	117
G 2000 P	2500	80.42	0.35	68.31	0.89	70.60	0.39	0.555	5.39	57	152
G 2500 P	2850	100.52	0.65	81.48	0.66	87.69	0.70	0.648	6.29	58	190
G 3000 P	3230	120.45	1.06	98.24	1.10	103.66	0.93	0.740	7.19	59	227
ECG 1000 P (')	1400	38.69	1290	34.84	6510	35.40	0.28	0.350	2.63	55	77
ECG 1500 P (')	1850	56.20	990	51.76	8440	54.94	0.87	0.466	3.50	56	117
ECG 2000 P (')	2780	87.38	2830	74.52	7170	77.66	0.46	0.699	5.25	57	152
ECG 2500 P (')	3240	109.33	5180	86.06	5330	96.53	0.84	0.816	6.13	58	190
ECG 3000 P (')	3700	131.09	8520	107.45	8860	114.20	1.10	0.932	7.00	59	227

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

WATER HEATED 240V-1ph~60Hz

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	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	980	25.45	0.02	27.81	0.63	27.71	0.18	0.454	1.90	56	77
M 1500 P	1470	48.66	0.11	44.49	0.94	46.61	0.65	0.681	2.85	57	117
M 2000 P	1960	70.46	0.28	59.34	0.69	60.60	0.30	0.908	3.80	58	152
M 2500 P	2450	91.85	0.55	74.01	0.56	79.03	0.59	1.135	4.75	59	190
M 3000 P	2940	113.39	0.96	92.16	0.98	100.15	0.82	1.363	5.70	60	227
G 1000 P	1290	37.06	0.17	33.27	0.87	33.68	0.25	0.681	2.85	56	77
G 1500 P	1720	53.78	0.13	49.41	1.13	52.21	0.80	0.908	3.80	57	117
G 2000 P	2580	83.63	0.38	71.18	0.96	73.84	0.42	1.363	5.70	58	152
G 2500 P	3010	104.55	0.69	84.96	0.71	91.72	0.76	1.590	6.65	59	190
G 3000 P	3450	125.33	1.14	102.47	1.18	108.47	1.01	1.817	7.60	60	227
ECG 1000 P (')	1475	40.06	0.20	36.13	1.01	36.85	0.30	0.454	3.00	61	77
ECG 1500 P (')	1970	58.31	0.15	53.84	1.31	57.32	0.94	0.573	3.70	62	117
ECG 2000 P (')	2950	90.56	0.44	77.46	1.11	80.90	0.50	0.908	6.00	63	152
ECG 2500 P (')	3450	110.04	0.80	92.61	0.83	100.69	0.90	1.027	6.70	64	190
ECG 3000 P (')	3940	136.14	1.32	111.82	1.38	119.29	1.19	1.146	7.40	65	227

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

(') AMCA Certified.

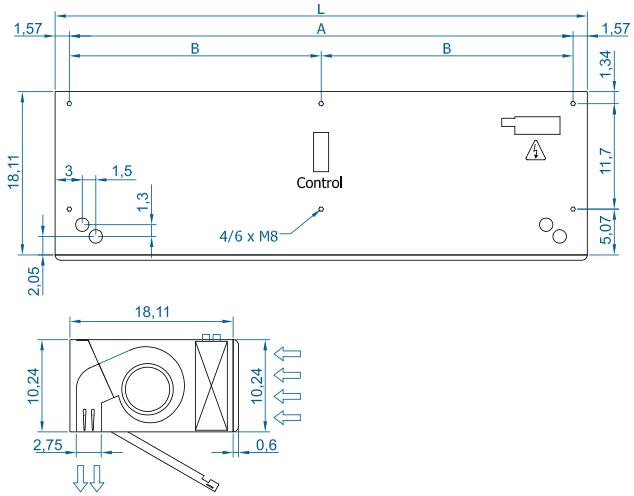


Selection program

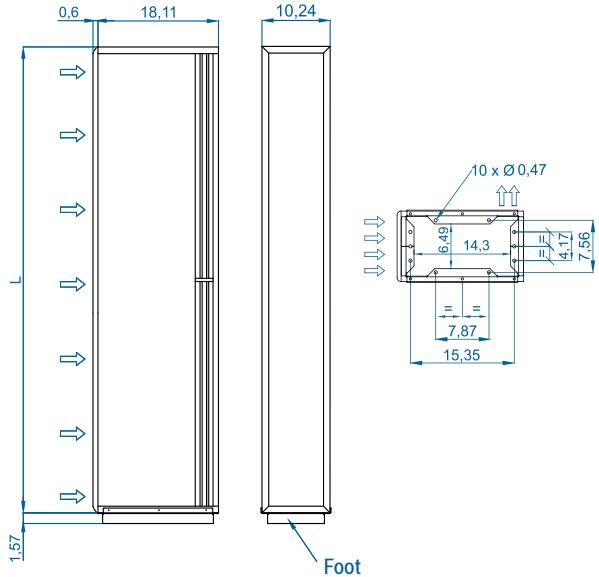


Dimensions

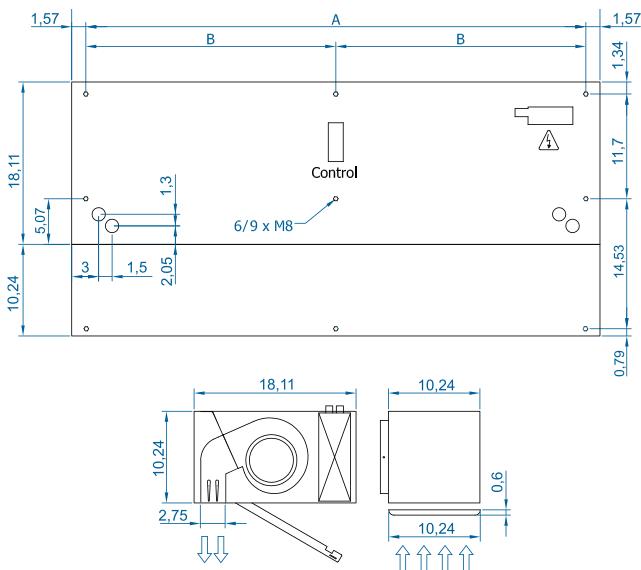
Horizontal installation



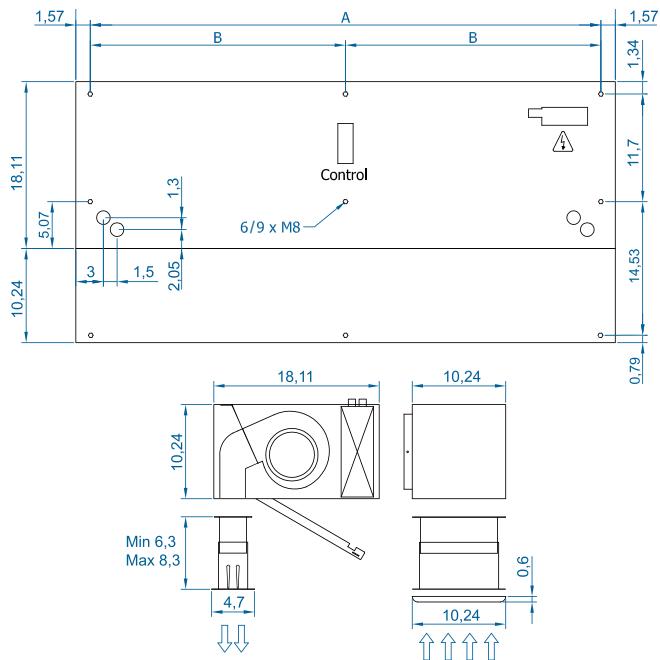
Vertical installation



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.

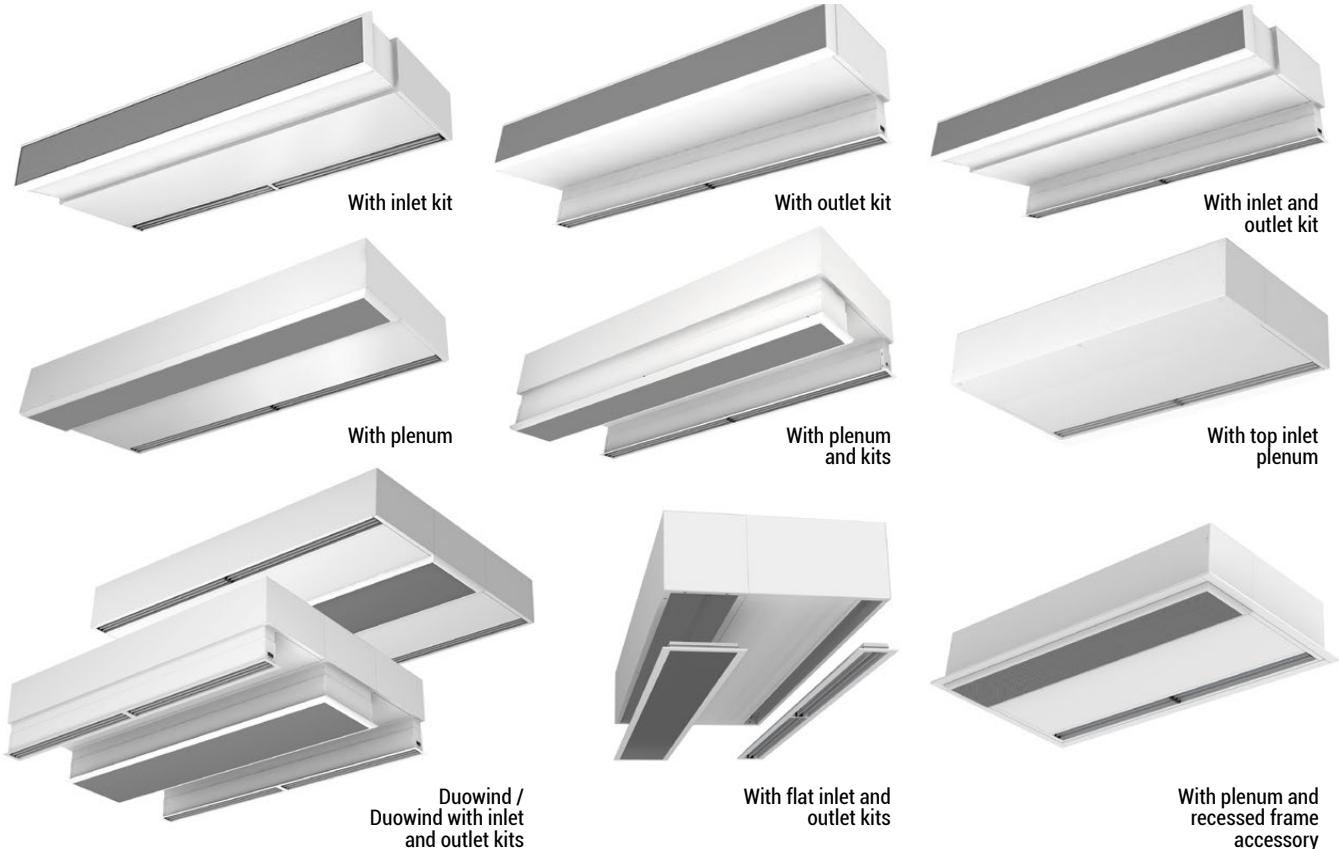
All dimensions in inches

CAD drawings, installation manuals
and other documentation





Installation Configurations



Optional accessories

Supports and installation



Control



Sensors





Technical Features



RAL 9016
standard



Other colors
on request



Range
Up to 13.8 ft



Airflow / Length
920 - 3600 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 : 2 - 30.5 kW
P : 24.33 - 110.04
kBtu/h



Control
A, E : Plug&Play Advanced PRO
P : 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

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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



* UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
		kW	A					
RM 1000 A	955	0.238	1.14	58	3132	2300	54	126
RM 1500 A	1430	0.357	1.70	58	3132	2300	55	187
RM 2000 A	1910	0.476	2.27	58	3132	2300	56	240
RM 2500 A	2385	0.595	2.84	58	3132	2300	57	302
RG 1000 A	1265	0.357	1.70	-	-	-	56	135
RG 1500 A	1685	0.476	2.27	-	-	-	57	198
RG 2000 A	2525	0.714	3.41	-	-	-	58	260
RG 2500 A	2950	0.833	3.97	-	-	-	59	320
RECG 1000 A	1450	0.350	2.63	91	3144	2750	60	135
RECG 1500 A	1920	0.466	3.50	91	3144	2750	61	198
RECG 2000 A	2880	0.699	5.25	91	3144	2750	62	260
RECG 2500 A	3360	0.816	6.13	91	3144	2750	63	320

RECESSED WINDBOX

HIGH PRESSURE RECESSED
AIR CURTAINS FOR COMMERCIAL DOORS



UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power	Ventilation current	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight	
		240V-1ph~60Hz	240V-1ph~60Hz						
		cfm	kW	A	%	fpm	fpm	dB(A)	lb
RM 1000 A	1020	0.293	1.20	58	3238	2400	55	126	
RM 1500 A	1520	0.439	1.80	58	3238	2400	56	187	
RM 2000 A	2030	0.585	2.40	58	3238	2400	57	240	
RM 2500 A	2530	0.732	3.00	58	3238	2400	58	302	
RG 1000 A	1350	0.439	1.80	-	-	-	57	135	
RG 1500 A	1800	0.585	2.40	-	-	-	58	198	
RG 2000 A	2700	0.878	3.60	-	-	-	59	260	
RG 2500 A	3140	1.024	4.20	-	-	-	60	320	
RECG 1000 A	1530	0.454	3.00	87	3375	3016	61	135	
RECG 1500 A	2050	0.573	3.70	91	3252	2868	62	198	
RECG 2000 A	3060	0.908	6.00	87	3374	3016	63	260	
RECG 2500 A	3600	1.027	6.70	89	3300	2927	64	320	

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²)	Ventilation power	Ventilation current	Noise level (5 m)	Weight				
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	208V-1ph~60Hz	208V-1ph~60Hz			
		cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RM 1000 E	940	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	55	143	
RM 1500 E	1400	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	56	216	
RM 2000 E	1875	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	57	286	
RM 2500 E	2340	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	58	357	
RG 1000 E	1250	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	57	154	
RG 1500 E	1660	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	58	229	
RG 2000 E	2500	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	59	308	
RG 2500 E	2910	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	60	379	
RECG 1000 E	1425	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	61	154	
RECG 1500 E	1900	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.466	3.50	62	229	
RECG 2000 E	2850	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	63	308	
RECG 2500 E	3320	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.816	6.13	64	379	

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 (²)	Ventilation power	Ventilation current	Noise level (5 m)	Weight				
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	240V-1ph~60Hz	240V-1ph~60Hz			
		cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RM 1000 E	995	2.5/5/7.5	3.3/6.7/10	3.7/7.3/11	3.5/7/10.5	0.293	1.20	54	143	
RM 1500 E	1500	3/6.5/9.5	4.8/9.7/14.5	5.2/10.3/15.5	5/10/15	0.439	1.80	55	216	
RM 2000 E	2000	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	56	286	
RM 2500 E	2500	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	57	357	
RG 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	56	154	
RG 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	57	229	
RG 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	58	308	
RG 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	59	379	
RECG 1000 E	1500	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	60	154	
RECG 1500 E	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.573	3.70	61	229	
RECG 2000 E	3000	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	62	308	
RECG 2500 E	3500	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.027	6.70	63	379	

(²) Under request other electrical heating power can be limited.

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(3) WATER HEATED 208V-1ph~60Hz (3)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5m)	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	920	24.33	0.02	26.68	0.59	26.49	0.16	0.238	1.14	55	139
RM 1500 P	1340	46.78	0.10	42.69	0.87	44.56	0.60	0.357	1.70	56	205
RM 2000 P	1840	67.73	0.26	56.91	0.64	57.90	0.28	0.476	2.27	57	269
RM 2500 P	2300	88.31	0.51	70.97	0.52	75.54	0.54	0.595	2.84	58	337
RG 1000 P	1210	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	56	147
RG 1500 P	1620	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	216
RG 2000 P	2500	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	288
RG 2500 P	2850	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	359
RECG 1000 P	1400	38.69	1290	34.84	6510	35.40	0.28	0.350	2.63	60	147
RECG 1500 P	1850	56.20	990	51.76	8440	54.94	0.87	0.466	3.50	61	216
RECG 2000 P	2780	87.38	2830	74.52	7170	77.66	0.46	0.699	5.25	62	288
RECG 2500 P	3240	109.33	5180	86.06	5330	96.53	0.84	0.816	6.13	63	359

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

(3) WATER HEATED 240V-1ph~60Hz (3)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5m)	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	980	25.45	0.02	27.81	0.63	27.71	0.18	0.293	1.20	56	139
RM 1500 P	1470	48.66	0.11	44.49	0.94	46.61	0.65	0.439	1.80	57	205
RM 2000 P	1960	70.46	0.28	59.34	0.69	60.60	0.30	0.585	2.40	58	269
RM 2500 P	2450	91.85	0.55	74.01	0.56	79.03	0.59	0.732	3.00	59	337
RG 1000 P	1290	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	57	147
RG 1500 P	1720	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	216
RG 2000 P	2580	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	288
RG 2500 P	3010	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	359
RECG 1000 P	1475	40.06	0.20	36.13	1.01	36.85	0.30	0.454	3.00	61	147
RECG 1500 P	1970	58.31	0.15	53.84	1.31	57.32	0.94	0.573	3.70	62	216
RECG 2000 P	2950	90.56	0.44	77.46	1.11	80.90	0.50	0.908	6.00	63	288
RECG 2500 P	3450	110.04	0.80	92.61	0.83	100.69	0.90	1.027	6.70	64	359

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

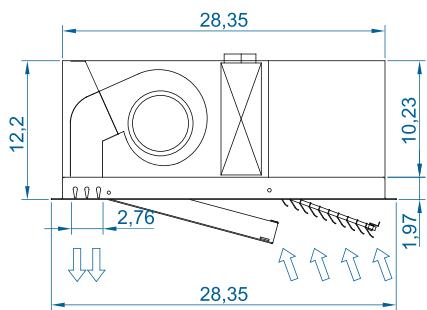
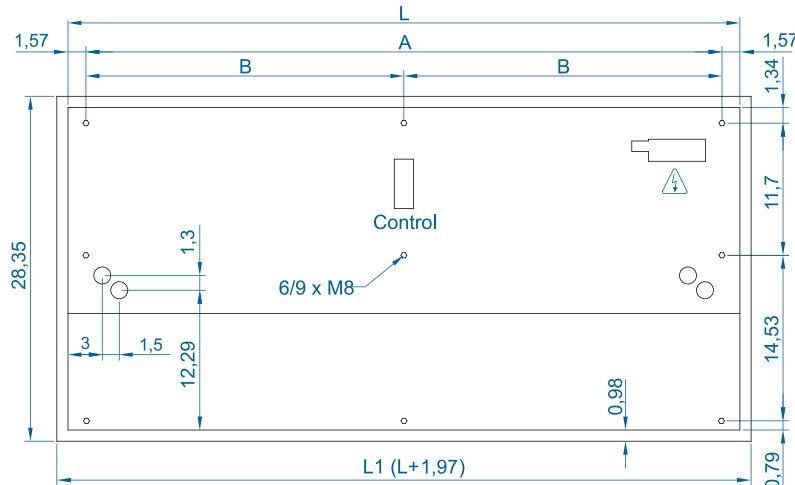
(3) Air curtain with CSA components, but without being certified.



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



Optional accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT

Control



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

Sensors



Magnetic
door contact MAG-DC
✓ Included



Mechanical
door contact MEC-DC



Technical Features

RAL 9016
standardOther colors
on requestStainless
steelRange
Up to 13.8 ftAirflow / Length
920 - 4100 cfm
3.2 ft to 10.5 ftFans
Centrifugal
5-speedHeating types
E : electrical 3 stages
P : water
A : unheatedHeating capacity
E : 2 - 30.5 kW
P : 24.33 - 136.14
kBtu/hControl
A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote controlCasing
Galvanised Steel [*]Grille type
Micro-perforated
with prefilter functionOutlet 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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
		kW	A					
DAM M 1000 A	955	0.238	1.14	58	3132	2300	54	84
DAM M 1500 A	1430	0.357	1.70	58	3132	2300	55	124
DAM M 2000 A	1910	0.476	2.27	58	3132	2300	56	154
DAM M 2500 A	2385	0.595	2.84	58	3132	2300	57	168
DAM M 3000 A	2860	0.714	3.41	58	3132	2300	58	194
DAM G 1000 A	1265	0.357	1.70	-	-	-	56	93
DAM G 1500 A	1685	0.476	2.27	-	-	-	57	135
DAM G 2000 A	2525	0.714	3.41	-	-	-	58	176
DAM G 2500 A	2950	0.833	3.97	-	-	-	59	190
DAM G 3000 A	3370	0.952	4.54	-	-	-	60	216
DAM ECG 1000 A	1450	0.350	2.63	91	3144	2750	60	93
DAM ECG 1500 A	1920	0.466	3.50	91	3144	2750	61	135
DAM ECG 2000 A	2880	0.699	5.25	91	3144	2750	62	176
DAM ECG 2500 A	3360	0.816	6.13	91	3144	2750	63	190
DAM ECG 3000 A	3840	0.932	7.00	91	3144	2750	64	216



⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
DAM M 1000 A	1020	0.293	1.20	58	3238	2400	55	84
DAM M 1500 A	1520	0.439	1.80	58	3238	2400	56	124
DAM M 2000 A	2030	0.585	2.40	58	3238	2400	57	154
DAM M 2500 A	2530	0.732	3.00	58	3238	2400	58	168
DAM M 3000 A	3040	0.878	3.60	58	3238	2400	59	194
DAM G 1000 A	1350	0.439	1.80	-	-	-	57	93
DAM G 1500 A	1800	0.585	2.40	-	-	-	58	135
DAM G 2000 A	2700	0.878	3.60	-	-	-	59	176
DAM G 2500 A	3140	1.024	4.20	-	-	-	60	190
DAM G 3000 A	3580	1.171	4.80	-	-	-	61	216
DAM ECG 1000 A	1530	0.454	3.00	87	3375	3016	61	93
DAM ECG 1500 A	2050	0.573	3.70	91	3252	2868	62	135
DAM ECG 2000 A	3060	0.908	6.00	87	3374	3016	63	176
DAM ECG 2500 A	3600	1.027	6.70	89	3300	2927	64	190
DAM ECG 3000 A	4100	1.146	7.40	91	3252	2868	65	216

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²) 208V-3ph~60Hz	Electrical heating capacity (²) 460V-3ph~60Hz	Electrical heating capacity (²) 480V-3ph~60Hz	Electrical heating capacity (²) 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	940	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	99
DAM M 1500 E	1400	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	150
DAM M 2000 E	1875	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	194
DAM M 2500 E	2340	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	212
DAM M 3000 E	2810	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	58	245
DAM G 1000 E	1250	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	110
DAM G 1500 E	1660	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	163
DAM G 2000 E	2500	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	216
DAM G 2500 E	2910	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	234
DAM G 3000 E	3320	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	267
DAM ECG 1000 E	1425	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	110
DAM ECG 1500 E	1900	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.466	3.50	61	163
DAM ECG 2000 E	2850	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	216
DAM ECG 2500 E	3320	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.816	6.13	63	234
DAM ECG 3000 E	3800	6.5/8/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.932	7.00	64	267

(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 (²)		Electrical heating capacity (²)		Electrical heating capacity (²)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	kW				
	cfm	kW	kW	kW	kW	kW	kW	A	dB(A)	lb	
DAM M 1000 E	995	2.5/5/7.5	3.3/6.7/10	3.7/7.3/11	3.5/7/10.5	0.293	1.20	55	99		
DAM M 1500 E	1500	3/6.5/9.5	4.8/9.7/14.5	5.2/10.3/15.5	5/10/15	0.439	1.80	56	150		
DAM M 2000 E	2000	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	194		
DAM M 2500 E	2500	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	212		
DAM M 3000 E	3000	6.5/8/14.5	9.3/18.7/28	10.3/20.3/30.5	9.5/19/28.5	0.878	3.60	59	245		
DAM G 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	110		
DAM G 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	58	163		
DAM G 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	216		
DAM G 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	60	234		
DAM G 3000 E	3540	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.171	4.80	61	267		
DAM ECG 1000 E	1500	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	110		
DAM ECG 1500 E	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.573	3.70	62	163		
DAM ECG 2000 E	3000	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	216		
DAM ECG 2500 E	3500	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.027	6.70	64	234		
DAM ECG 3000 E	4000	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.146	7.40	65	267		

(²) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz (³)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	920	24.33	0.02	26.68	0.59	26.49	0.16	0.238	1.14	55	95
DAM M 1500 P	1340	46.78	0.10	42.69	0.87	44.56	0.60	0.357	1.70	56	141
DAM M 2000 P	1840	67.73	0.26	56.91	0.64	57.90	0.28	0.476	2.27	57	179
DAM M 2500 P	2300	88.31	0.51	70.97	0.52	75.54	0.54	0.595	2.84	58	196
DAM M 3000 P	2800	108.98	0.89	88.41	0.91	92.47	0.76	0.714	3.41	59	227
DAM G 1000 P	1210	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	56	106
DAM G 1500 P	1620	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	154
DAM G 2000 P	2500	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	200
DAM G 2500 P	2850	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	214
DAM G 3000 P	3230	120.45	1.06	98.24	1.10	103.66	0.93	0.952	4.54	60	245
DAM ECG 1000 P	1400	38.69	1290	34.84	6510	35.40	0.28	0.350	2.63	60	106
DAM ECG 1500 P	1850	56.20	990	51.76	8440	54.94	0.87	0.466	3.50	61	154
DAM ECG 2000 P	2780	87.38	2830	74.52	7170	77.66	0.46	0.699	5.25	62	200
DAM ECG 2500 P	3240	109.33	5180	86.06	5330	96.53	0.84	0.816	6.13	63	214
DAM ECG 3000 P	3700	131.09	8520	107.45	8860	114.20	1.10	0.932	7.00	64	245

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

(³) Air curtain with CSA components, but without being certified.



WATER HEATED 240V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	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	980	25.45	0.02	27.81	0.63	27.71	0.18	0.293	1.20	56	95
DAM M 1500P	1470	48.66	0.11	44.49	0.94	46.61	0.65	0.439	1.80	57	141
DAM M 2000P	1960	70.46	0.28	59.34	0.69	60.60	0.30	0.585	2.40	58	179
DAM M 2500P	2450	91.85	0.55	74.01	0.56	79.03	0.59	0.732	3.00	59	196
DAM M 3000P	2940	113.39	0.96	92.16	0.98	100.15	0.82	0.878	3.60	60	227
DAM G 1000P	1290	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	57	106
DAM G 1500P	1720	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	154
DAM G 2000P	2580	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	200
DAM G 2500P	3010	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	214
DAM G 3000P	3450	125.33	1.14	102.47	1.18	108.47	1.01	1.171	4.80	61	245
DAM ECG 1000 P	1475	40.06	0.20	36.13	1.01	36.85	0.30	0.454	3.00	61	106
DAM ECG 1500 P	1970	58.31	0.15	53.84	1.31	57.32	0.94	0.573	3.70	62	154
DAM ECG 2000 P	2950	90.56	0.44	77.46	1.11	80.90	0.50	0.908	6.00	63	200
DAM ECG 2500 P	3450	110.04	0.80	92.61	0.83	100.69	0.90	1.027	6.70	64	214
DAM ECG 3000 P	3940	136.14	1.32	111.82	1.38	119.29	1.19	1.146	7.40	65	245

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

⁽³⁾ Air curtain with CSA components, but without being certified.

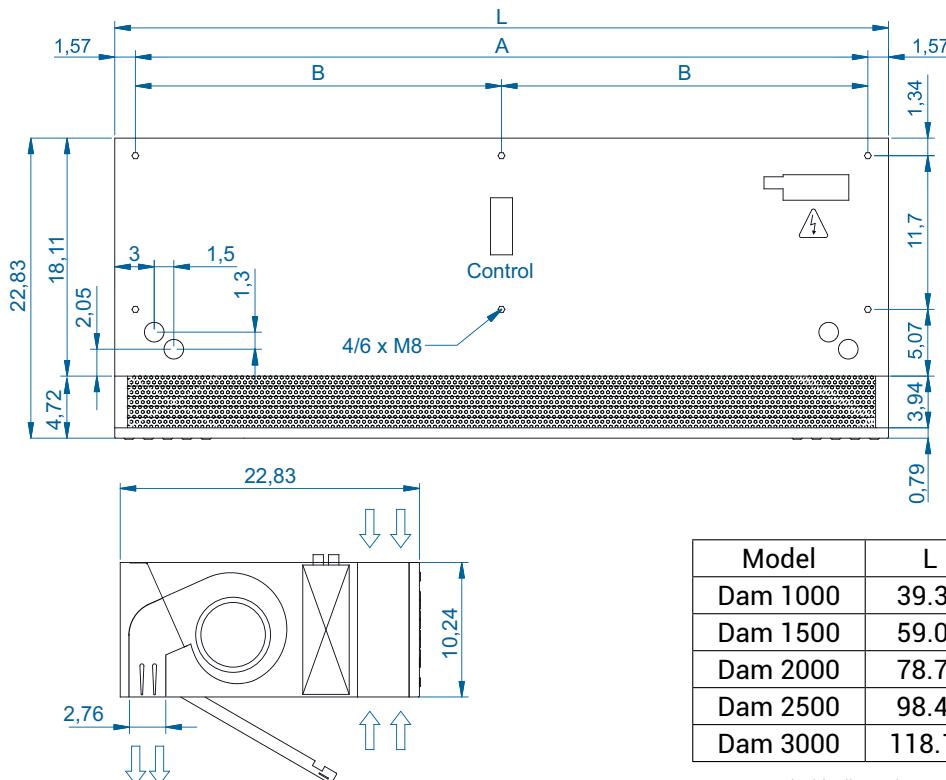


Selection program



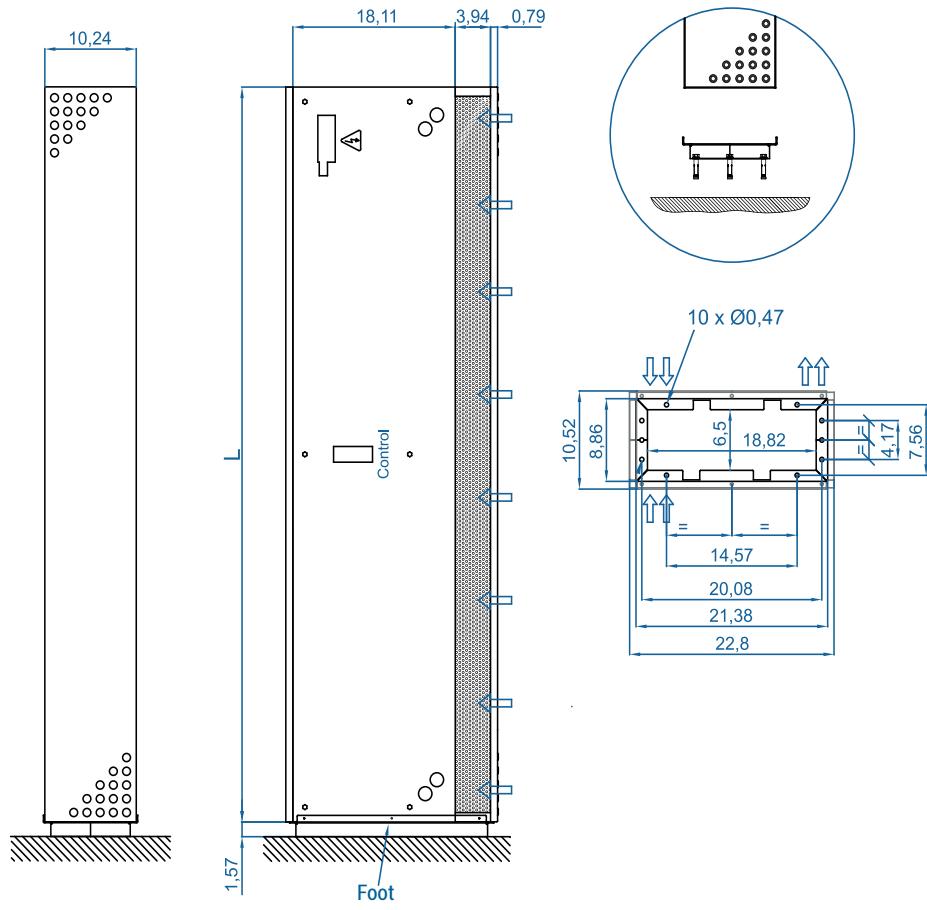
Dimensions

Horizontal installation



Customizable dimensions on request.

Vertical installation

CAD drawings, installation manuals
and other documentation



Dam Twin application

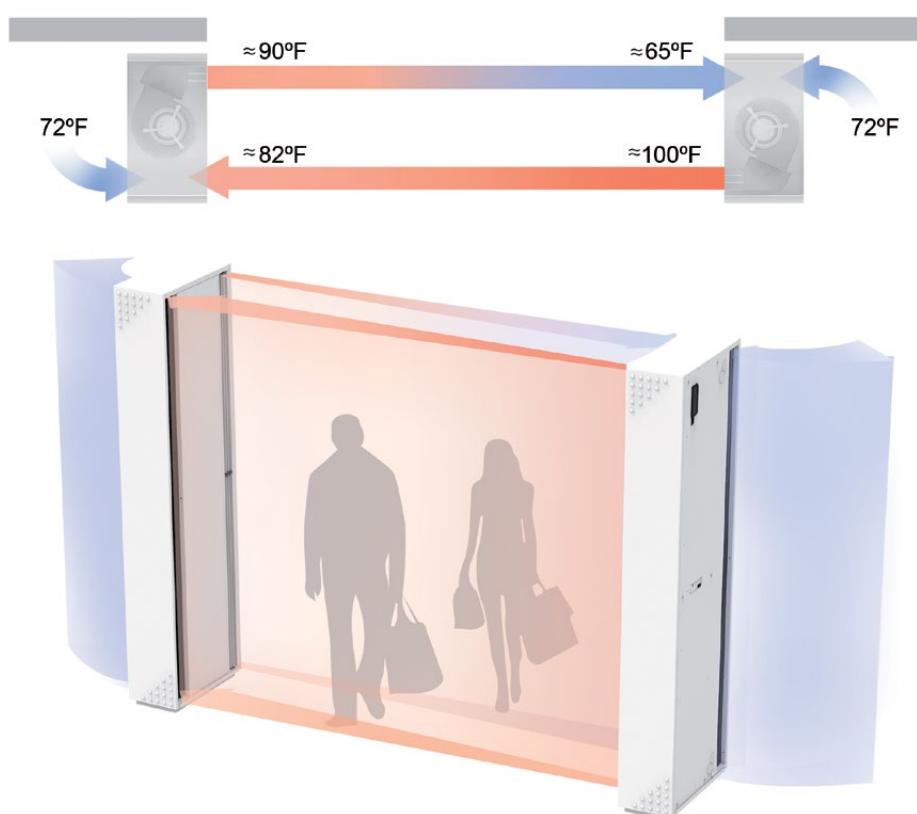
DAM TWIN system is an optimal solution for installations with very adverse conditions.

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



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

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
920 - 3600 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 : 2 - 30.5 kW
P : 24.33 - 110.04
kBtu/h



Control
A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote control



Casing
Galvanised Steel [*]



Grille type
Micro-perforated
with prefilter function



Outlet lamellas
Aluminium, airfoil type

[*] Customizable dimensions 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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



✳ UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb	
RDAM M 1000 A	955	0.238	1.14	58	3132	2300	54	99	
RDAM M 1500 A	1430	0.357	1.70	58	3132	2300	55	146	
RDAM M 2000 A	1910	0.476	2.27	58	3132	2300	56	185	
RDAM M 2500 A	2385	0.595	2.84	58	3132	2300	57	205	
RDAM G 1000 A	1265	0.357	1.70	-	-	-	56	108	
RDAM G 1500 A	1685	0.476	2.27	-	-	-	57	157	
RDAM G 2000 A	2525	0.714	3.41	-	-	-	58	207	
RDAM G 2500 A	2950	0.833	3.97	-	-	-	59	227	
RDAM ECG 1000 A	1450	0.350	2.63	91	3144	2750	60	108	
RDAM ECG 1500 A	1920	0.466	3.50	91	3144	2750	61	157	
RDAM ECG 2000 A	2880	0.699	5.25	91	3144	2750	62	207	
RDAM ECG 2500 A	3360	0.816	6.13	91	3144	2750	63	227	

RECESSED DAM

HIGH PRESSURE RECESSED
AIR CURTAINS FOR COMMERCIAL DOORS



* UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power	Ventilation current	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
		240V-1ph~60Hz	240V-1ph~60Hz					
		cfm	kW	A	%	fpm	fpm	lb
RDAM M 1000 A	1020	0.293	1.20	58	3238	2400	55	99
RDAM M 1500 A	1520	0.439	1.80	58	3238	2400	56	146
RDAM M 2000 A	2030	0.585	2.40	58	3238	2400	57	185
RDAM M 2500 A	2530	0.732	3.00	58	3238	2400	58	205
RDAM G 1000 A	1350	0.439	1.80	-	-	-	57	108
RDAM G 1500 A	1800	0.585	2.40	-	-	-	58	157
RDAM G 2000 A	2700	0.878	3.60	-	-	-	59	207
RDAM G 2500 A	3140	1.024	4.20	-	-	-	60	227
RDAM ECG 1000 A	1530	0.454	3.00	87	3375	3016	61	108
RDAM ECG 1500 A	2050	0.573	3.70	91	3252	2868	62	157
RDAM ECG 2000 A	3060	0.908	6.00	87	3374	3016	63	207
RDAM ECG 2500 A	3600	1.027	6.70	89	3300	2927	64	227

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²)	Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	A		
		cfm	kW	kW	kW	kW	kW	dB(A)	lb
RDAM M 1000 E	940	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	115
RDAM M 1500 E	1400	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	172
RDAM M 2000 E	1875	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	225
RDAM M 2500 E	2340	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	250
RDAM G 1000 E	1250	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	126
RDAM G 1500 E	1660	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	185
RDAM G 2000 E	2500	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	247
RDAM G 2500 E	2910	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	271
RDAM ECG 1000 E	1425	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	126
RDAM ECG 1500 E	1900	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.466	3.50	61	185
RDAM ECG 2000 E	2850	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	247
RDAM ECG 2500 E	3320	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.816	6.13	63	271

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 (²)	Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	kW		
		cfm	kW	kW	kW	kW	kW	dB(A)	lb
RDAM M 1000 E	995	2.5/5/7.5	3.3/6.7/10	3.7/7.3/11	3.5/7/10.5	0.293	1.20	55	115
RDAM M 1500 E	1500	3/6.5/9.5	4.8/9.7/14.5	5.2/10.3/15.5	5/10/15	0.439	1.80	56	172
RDAM M 2000 E	2000	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	225
RDAM M 2500 E	2500	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	250
RDAM G 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	126
RDAM G 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	58	185
RDAM G 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	247
RDAM G 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	60	271
RDAM ECG 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	61	126
RDAM ECG 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	62	185
RDAM ECG 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	63	247
RDAM ECG 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	64	271

(²) Under request other electrical heating power can be limited.

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 WATER HEATED 208V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	920	24.33	0.02	26.68	0.59	26.49	0.16	0.238	1.14	55	110
RDAM M 1500 P	1340	46.78	0.10	42.69	0.87	44.56	0.60	0.357	1.70	56	163
RDAM M 2000 P	1840	67.73	0.26	56.91	0.64	57.90	0.28	0.476	2.27	57	209
RDAM M 2500 P	2300	88.31	0.51	70.97	0.52	75.54	0.54	0.595	2.84	58	234
RDAM G 1000 P	1210	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	56	121
RDAM G 1500 P	1620	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	176
RDAM G 2000 P	2500	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	232
RDAM G 2500 P	2850	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	251
RDAM ECG 1000 P	1400	38.69	1290	34.84	6510	35.40	0.28	0.350	2.63	60	121
RDAM ECG 1500 P	1850	56.20	990	51.76	8440	54.94	0.87	0.466	3.50	61	176
RDAM ECG 2000 P	2780	87.38	2830	74.52	7170	77.66	0.46	0.699	5.25	62	232
RDAM ECG 2500 P	3240	109.33	5180	86.06	5330	96.53	0.84	0.816	6.13	63	251

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

 WATER HEATED 240V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	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	980	25.45	0.02	27.81	0.63	27.71	0.18	0.293	1.20	56	110
RDAM M 1500 P	1470	48.66	0.11	44.49	0.94	46.61	0.65	0.439	1.80	57	163
RDAM M 2000 P	1960	70.46	0.28	59.34	0.69	60.60	0.30	0.585	2.40	58	209
RDAM M 2500 P	2450	91.85	0.55	74.01	0.56	79.03	0.59	0.732	3.00	59	234
RDAM G 1000 P	1290	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	57	121
RDAM G 1500 P	1720	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	176
RDAM G 2000 P	2580	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	232
RDAM G 2500 P	3010	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	251
RDAM ECG 1000 P	1475	40.06	0.20	36.13	1.01	36.85	0.30	0.454	3.00	61	121
RDAM ECG 1500 P	1970	58.31	0.15	53.84	1.31	57.32	0.94	0.573	3.70	62	176
RDAM ECG 2000 P	2950	90.56	0.44	77.46	1.11	80.90	0.50	0.908	6.00	63	232
RDAM ECG 2500 P	3450	110.04	0.80	92.61	0.83	100.69	0.90	1.027	6.70	64	251

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

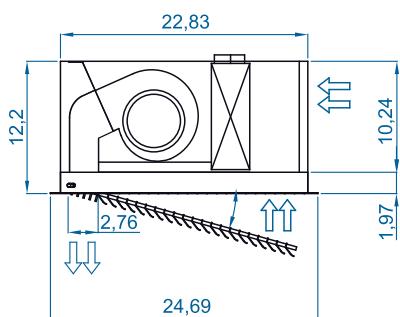
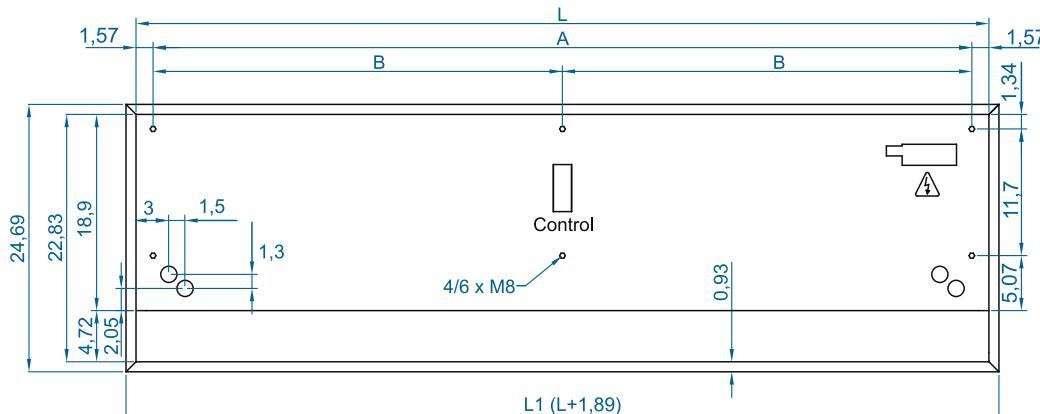
⁽³⁾ Air curtain with CSA components, but without being certified.



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



Optional accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT

Control



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

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
1600 - 3490 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 : 3.5 - 30.5 kW
P : 44.63 - 114.78
kBtu/h



Control
A, E : Plug&Play Advanced PRO
P : 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 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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
		kW	A					
IG 1500 A	1650	0.476	2.27	-	-	-	57	132
IG 2000 A	2500	0.714	3.41	-	-	-	58	172
IG 2500 A	2900	0.833	3.97	-	-	-	59	183
IECG 1500 A	1900	0.494	3.78	-	-	-	61	132
IECG 2000 A	2800	0.748	5.68	-	-	-	62	172
IECG 2500 A	3300	0.868	6.62	-	-	-	63	183



UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
IG 1500 A	1760	0.585	2.40	-	-	-	58	132
IG 2000 A	2630	0.878	3.60	-	-	-	59	172
IG 2500 A	3070	1.024	4.20	-	-	-	60	183
IECG 1500 A	2000	0.607	4.00	72	3455	2728	62	132
IECG 2000 A	2980	0.920	6.00	80	3541	2762	63	172
IECG 2500 A	3490	1.067	7.00	75	3488	2742	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	1630	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	161
IG 2000 E	2440	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	212
IG 2500 E	2850	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	227
IECG 1500 E	1850	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.494	3.784	61	161
IECG 2000 E	2760	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.676	62	212
IECG 2500 E	3230	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.868	6.622	63	227

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	1730	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5,5/11/16,5	0,585	2.40	58	161
IG 2000 E	2600	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0,878	3.60	59	212
IG 2500 E	3030	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1,024	4.20	60	227
IECG 1500 E	1965	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.607	4.00	62	161
IECG 2000 E	2935	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	212
IECG 2500 E	3435	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.067	7.00	64	227

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



WATER HEATED 208V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5m)	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	1600	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	152
IG 2000 P	2400	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	196
IG 2500 P	2785	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	207
IECG 1500 P	1820	56.20	990	51.76	8440	54.94	0.87	0.494	3.78	61	152
IECG 2000 P	2700	87.38	2830	74.52	7170	77.66	0.46	0.748	5.68	62	196
IECG 2500 P	3160	109.33	5180	86.06	5330	96.53	0.84	0.868	6.62	63	207

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

WATER HEATED 240V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5m)	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	1700	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	152
IG 2000 P	2525	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	196
IG 2500 P	2950	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	207
IECG 1500 P	1930	58.31	0.15	53.84	1.31	57.32	0.94	0.607	4.00	62	152
IECG 2000 P	2875	90.56	0.44	77.46	1.11	80.90	0.50	0.920	6.00	63	196
IECG 2500 P	3370	110.04	0.80	92.61	0.83	100.69	0.90	1.067	7.00	64	207

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

⁽³⁾ Air curtain with CSA components, but without being certified.



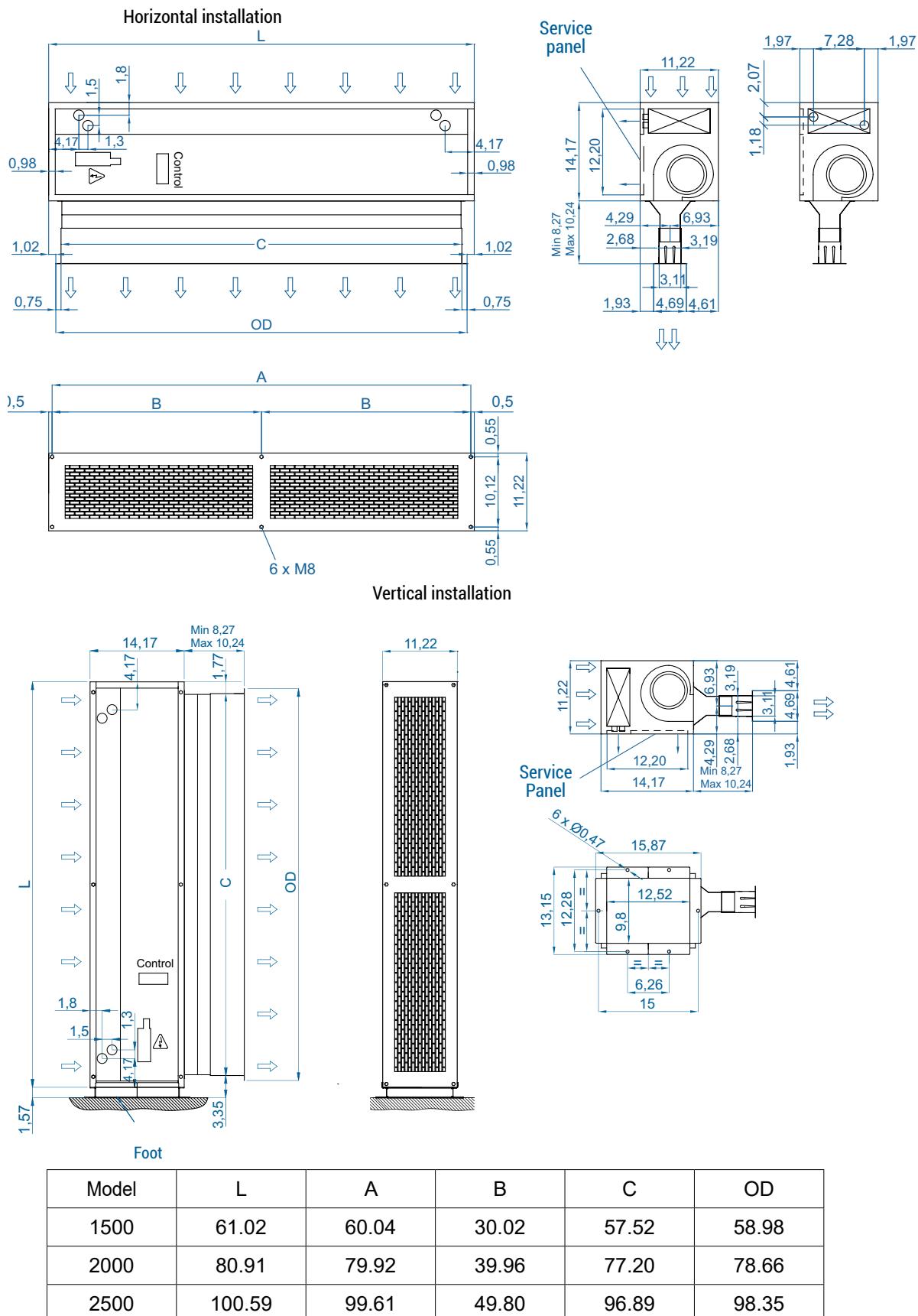
Selection program

CAD drawings, installation manuals
and other documentation





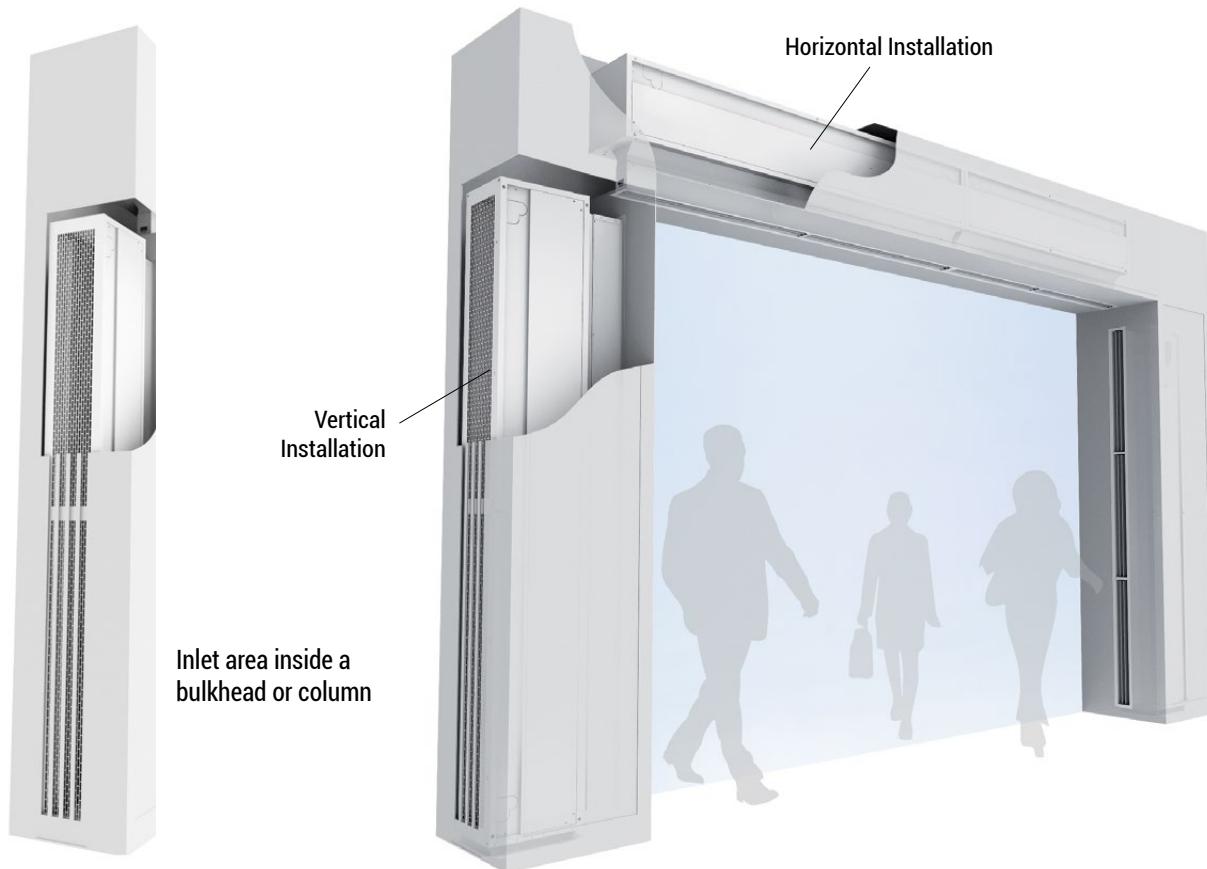
Dimensions



Customizable dimensions on request

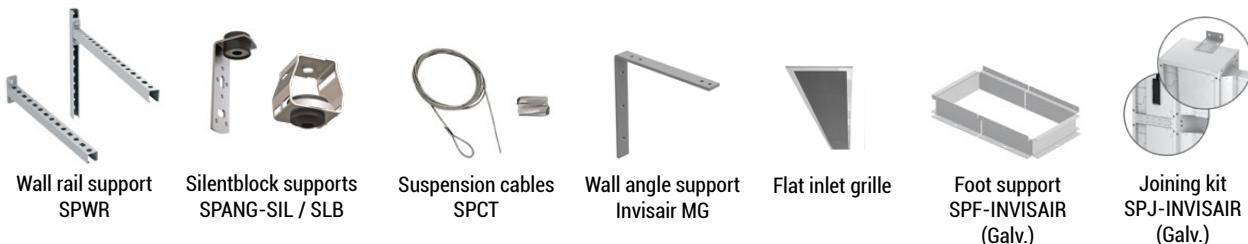


Installation configurations



Optional accessories

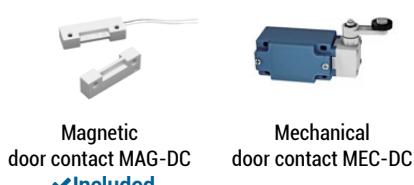
Supports and installation



Control



Sensors





Technical Features

RAL 9016
standardOther colors
on request

Range

Up to 13.8 ft



Heating types

E : electrical 3 stages
P : water
A : unheated

Casing

Galvanised Steel [*]



Airflow / Length

920 - 4100 cfm
3.2 ft to 10.5 ft

Heating capacity

E : 2 - 30.5 kW
P : 24.33 - 136.14
kBtu/h

Fans

Centrifugal
5-speed

Control

A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote control

Outlet lamellas

Aluminium, airfoil type
Adjustable 0-15° each side

Grille type

Micro-perforated
with prefilter function

Casing

Galvanised Steel [*]



Airflow / Length

920 - 4100 cfm
3.2 ft to 10.5 ft

Heating capacity

E : 2 - 30.5 kW
P : 24.33 - 136.14
kBtu/h

Fans

Centrifugal
5-speed

Control

A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote control

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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
SMART M 1000 A	955	0.238	1.14	58	3132	2300	52	75
SMART M 1500 A	1430	0.357	1.70	58	3132	2300	53	110
SMART M 2000 A	1910	0.476	2.27	58	3132	2300	54	137
SMART M 2500 A	2385	0.595	2.84	58	3132	2300	55	145
SMART M 3000 A	2860	0.714	3.41	58	3132	2300	56	168
SMART G 1000 A	1265	0.357	1.70	-	-	-	54	84
SMART G 1500 A	1685	0.476	2.27	-	-	-	55	121
SMART G 2000 A	2525	0.714	3.41	-	-	-	56	159
SMART G 2500 A	2950	0.833	3.97	-	-	-	57	168
SMART G 3000 A	3370	0.952	4.54	-	-	-	58	190
SMART ECG 1000 A	1450	0.350	2.63	91	3144	2750	58	84
SMART ECG 1500 A	1920	0.466	3.50	91	3144	2750	59	121
SMART ECG 2000 A	2880	0.699	5.25	91	3144	2750	60	159
SMART ECG 2500 A	3360	0.816	6.13	91	3144	2750	61	168
SMART ECG 3000 A	3840	0.932	7.00	91	3144	2750	62	190



⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power	Ventilation current	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
		240V-1ph~60Hz	240V-1ph~60Hz					
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
SMART M 1000 A	1020	0.293	1.20	58	3238	2400	53	75
SMART M 1500 A	1520	0.439	1.80	58	3238	2400	54	110
SMART M 2000 A	2030	0.585	2.40	58	3238	2400	55	137
SMART M 2500 A	2530	0.732	3.00	58	3238	2400	56	145
SMART M 3000 A	3040	0.878	3.60	58	3238	2400	57	168
SMART G 1000 A	1350	0.439	1.80	-	-	-	55	84
SMART G 1500 A	1800	0.585	2.40	-	-	-	56	121
SMART G 2000 A	2700	0.878	3.60	-	-	-	57	159
SMART G 2500 A	3140	1.024	4.20	-	-	-	58	168
SMART G 3000 A	3580	1.171	4.80	-	-	-	59	190
SMART ECG 1000 A	1530	0.454	3.00	87	3375	3016	59	84
SMART ECG 1500 A	2050	0.573	3.70	91	3252	2868	60	121
SMART ECG 2000 A	3060	0.908	6.00	87	3374	3016	61	159
SMART ECG 2500 A	3600	1.027	6.70	89	3300	2927	62	168
SMART ECG 3000 A	4100	1.146	7.40	91	3252	2868	63	190

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Air-flow	Electrical heating capacity (²)	Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	A		
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
SMART M 1000 E	940	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	52	90
SMART M 1500 E	1400	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	53	137
SMART M 2000 E	1875	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	54	176
SMART M 2500 E	2340	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	55	190
SMART M 3000 E	2810	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	56	218
SMART G 1000 E	1250	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	54	101
SMART G 1500 E	1660	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	55	150
SMART G 2000 E	2500	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	56	198
SMART G 2500 E	2910	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	57	211
SMART G 3000 E	3320	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	58	240
SMART ECG 1000 E	1425	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	58	101
SMART ECG 1500 E	1900	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.466	3.50	59	150
SMART ECG 2000 E	2850	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	60	198
SMART ECG 2500 E	3320	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.816	6.13	61	211
SMART ECG 3000 E	3800	6.5/8/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.932	7.00	62	240

(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	Electrical	Electrical	Electrical	Ventilation	Ventilation	Noise	Weight
		heating capacity (²)	heating capacity (²)	heating capacity (²)	heating capacity (²)	power 240V-1ph ~60Hz	current 240V-1ph ~60Hz		
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
SMART M 1000 E	995	2.5/5/7.5	3.3/6.7/10	3.7/7.3/11	3.5/7/10.5	0.293	1.20	53	90
SMART M 1500 E	1500	3/6.5/9.5	4.8/9.7/14.5	5.2/10.3/15.5	5/10/15	0.439	1.80	54	137
SMART M 2000 E	2000	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	55	176
SMART M 2500 E	2500	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	56	190
SMART M 3000 E	3000	6.5/8/14.5	9.3/18.7/28	10.3/20.3/30.5	9.5/19/28.5	0.878	3.60	57	218
SMART G 1000 E	1325	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	55	101
SMART G 1500 E	1770	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	56	150
SMART G 2000 E	2650	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	57	198
SMART G 2500 E	3090	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	58	211
SMART G 3000 E	3540	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.171	4.80	59	240
SMART ECG 1000 E	1500	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	59	101
SMART ECG 1500 E	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.573	3.70	60	150
SMART ECG 2000 E	3000	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	61	198
SMART ECG 2500 E	3500	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.027	6.70	62	211
SMART ECG 3000 E	4000	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.146	7.40	63	240

(²) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz (³)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	920	24.33	0.02	26.68	0.59	26.49	0.16	0.238	1.14	53	86
SMART M 1500 P	1340	46.78	0.10	42.69	0.87	44.56	0.60	0.357	1.70	54	128
SMART M 2000 P	1840	67.73	0.26	56.91	0.64	57.90	0.28	0.476	2.27	55	161
SMART M 2500 P	2300	88.31	0.51	70.97	0.52	75.54	0.54	0.595	2.84	56	174
SMART M 3000 P	2800	108.98	0.89	88.41	0.91	92.47	0.76	0.714	3.41	57	201
SMART G 1000 P	1210	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	54	97
SMART G 1500 P	1620	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	55	141
SMART G 2000 P	2500	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	56	183
SMART G 2500 P	2850	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	57	192
SMART G 3000 P	3230	120.45	1.06	98.24	1.10	103.66	0.93	0.952	4.54	58	218
SMART ECG 1000 P	1400	38.69	1290	34.84	6510	35.40	0.28	0.350	2.63	58	97
SMART ECG 1500 P	1850	56.20	990	51.76	8440	54.94	0.87	0.466	3.50	59	141
SMART ECG 2000 P	2780	87.38	2830	74.52	7170	77.66	0.46	0.699	5.25	60	183
SMART ECG 2500 P	3240	109.33	5180	86.06	5330	96.53	0.84	0.816	6.13	61	192
SMART ECG 3000 P	3700	131.09	8520	107.45	8860	114.20	1.10	0.932	7.00	62	218

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

(³) Air curtain with CSA components, but without being certified.



WATER HEATED 240V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5m)	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	980	25.45	0.02	27.81	0.63	27.71	0.18	0.293	1.20	54	86
SMART M 1500 P	1470	48.66	0.11	44.49	0.94	46.61	0.65	0.439	1.80	55	128
SMART M 2000 P	1960	70.46	0.28	59.34	0.69	60.60	0.30	0.585	2.40	56	161
SMART M 2500 P	2450	91.85	0.55	74.01	0.56	79.03	0.59	0.732	3.00	57	174
SMART M 3000 P	2940	113.39	0.96	92.16	0.98	100.15	0.82	0.878	3.60	58	201
SMART G 1000 P	1290	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	55	97
SMART G 1500 P	1720	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	56	141
SMART G 2000 P	2580	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	57	183
SMART G 2500 P	3010	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	58	192
SMART G 3000 P	3450	125.33	1.14	102.47	1.18	108.47	1.01	1.171	4.80	59	218
SMART ECG 1000 P	1475	40.06	0.20	36.13	1.01	36.85	0.30	0.454	3.00	59	97
SMART ECG 1500 P	1970	58.31	0.15	53.84	1.31	57.32	0.94	0.573	3.70	60	141
SMART ECG 2000 P	2950	90.56	0.44	77.46	1.11	80.90	0.50	0.908	6.00	61	183
SMART ECG 2500 P	3450	110.04	0.80	92.61	0.83	100.69	0.90	1.027	6.70	62	192
SMART ECG 3000 P	3940	136.14	1.32	111.82	1.38	119.29	1.19	1.146	7.40	63	218

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

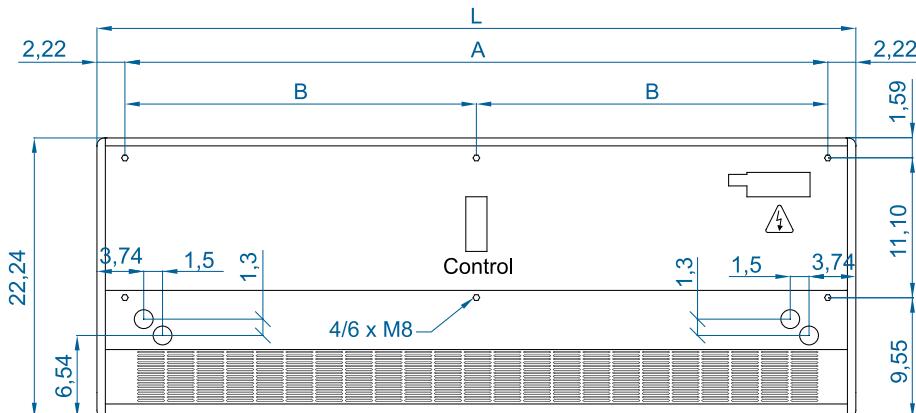
⁽³⁾ Air curtain with CSA components, but without being certified.



Selection program

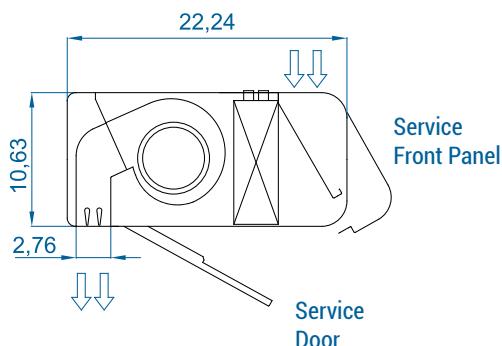


Dimensions



	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

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT

CAD drawings, installation manuals
and other documentation



Control



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

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
and materials
on request



Range
Up to 13.8 ft



Airflow / Length
1200 - 3490 cfm
3.2 ft to 10.5 ft



Fans
Centrifugal
5-speed



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



Heating capacity
E : 2.5 - 30.5 kW
P : 30.23 - 114.75
kBtu/h



Control
A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator + IR remote control



Casing
Galvanised Steel [x]



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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

Certifications

(1) AMCA Certified:



Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 vestibule exception validated by AMCA certification. Refer to Velocity Projection Chart below for information.

Airtècnics certifies that the air curtains shown here in are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Rated data shown is for base (unheated) units. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only.



AMCA Certified VELOCITY PROJECTION: Model Zen ECG 1000A-240V 60Hz

Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1191	915	762	667
Uniformity (%)	88	92	98	97

CSA Certified:



Core Velocity	Uniformity
1191fpm	88%
915fpm	92%
762fpm	98%
667fpm	97%



⌘ UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
ZEN G 1000 A	1250	0.357	1.70	-	-	-	56	80
ZEN G 1500 A	1650	0.476	2.27	-	-	-	57	110
ZEN G 2000 A	2500	0.714	3.41	-	-	-	58	152
ZEN G 2500 A	2900	0.833	3.97	-	-	-	59	183
ZEN ECG 1000 A	1400	0.374	2.84	-	-	-	60	80
ZEN ECG 1500 A	1900	0.494	3.78	-	-	-	61	110
ZEN ECG 2000 A	2800	0.748	5.68	-	-	-	62	152
ZEN ECG 2500 A	3300	0.868	6.62	-	-	-	63	183

⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
ZEN G 1000 A	1320	0.439	1.80	-	-	-	57	80
ZEN G 1500 A	1760	0.585	2.40	-	-	-	58	110
ZEN G 2000 A	2630	0.878	3.60	-	-	-	59	152
ZEN G 2500 A	3070	1.024	4.20	-	-	-	60	183
ZEN ECG 1000 A (¹)	1500	0.460	3.00	80	3541	2762	61	80
ZEN ECG 1500 A (¹)	2000	0.607	4.00	72	3455	2728	62	110
ZEN ECG 2000 A (¹)	2980	0.920	6.00	80	3541	2762	63	152
ZEN ECG 2500 A (¹)	3490	1.067	7.00	75	3488	2742	64	183

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²) 208V-3ph~60Hz	Electrical heating capacity (²) 460V-3ph~60Hz	Electrical heating capacity (²) 480V-3ph~60Hz	Electrical heating capacity (²) 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	1220	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	95
ZEN G 1500 E	1630	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	137
ZEN G 2000 E	2440	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	188
ZEN G 2500 E	2850	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	227
ZEN ECG 1000 E	1380	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.838	60	95
ZEN ECG 1500 E	1850	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.494	3.784	61	137
ZEN ECG 2000 E	2760	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.676	62	188
ZEN ECG 2500 E	3230	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.868	6.622	63	227

(¹) AMCA Certified.

(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 (²)	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	kW		
	cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
ZEN G 1000 E	1300	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0,439	1.80	57	95
ZEN G 1500 E	1730	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5,5/11/16,5	0,585	2.40	58	137
ZEN G 2000 E	2600	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0,878	3.60	59	188
ZEN G 2500 E	3030	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1,024	4.20	60	227
ZEN ECG 1000 E (¹)	1470	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	95
ZEN ECG 1500 E (¹)	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.607	4.00	62	137
ZEN ECG 2000 E (¹)	2935	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	188
ZEN ECG 2500 E (¹)	3435	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.067	7.00	64	227

(²) Under request other electrical heating power can be limited.

WATER HEATED 208V-1ph~60Hz

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	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	1200	29.52	0.03	31.94	0.81	32.21	0.23	0.278	2.70	56	88
ZEN G 1500 P	1600	51.69	0.12	47.39	1.05	49.92	0.73	0.370	3.59	57	126
ZEN G 2000 P	2400	80.42	0.35	68.31	0.89	70.60	0.39	0.555	5.39	58	172
ZEN G 2500 P	2785	100.52	0.65	81.48	0.66	87.69	0.70	0.648	6.29	59	210
ZEN ECG 1000 P	1350	38.69	1290	34.84	6510	35.40	0.28	0.374	2.84	60	88
ZEN ECG 1500 P	1820	56.20	990	51.76	8440	54.94	0.87	0.494	3.78	61	126
ZEN ECG 2000 P	2700	87.38	2830	74.52	7170	77.66	0.46	0.748	5.68	62	172
ZEN ECG 2500 P	3160	109.33	5180	86.06	5330	96.53	0.84	0.868	6.62	63	210

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

WATER HEATED 240V-1ph~60Hz

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	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	1265	37.06	0.17	33.27	0.87	33.68	0.25	0.681	2.85	57	88
ZEN G 1500 P	1700	53.78	0.13	49.41	1.13	52.21	0.80	0.908	3.80	58	126
ZEN G 2000 P	2525	83.63	0.38	71.18	0.96	73.84	0.42	1.363	5.70	59	172
ZEN G 2500 P	2950	104.55	0.69	84.96	0.71	91.72	0.76	1.590	6.65	60	210
ZEN ECG 1000 P (¹)	1440	40.06	0.20	36.13	1.01	36.85	0.30	0.460	3.00	61	88
ZEN ECG 1500 P (¹)	1930	58.31	0.15	53.84	1.31	57.32	0.94	0.607	4.00	62	126
ZEN ECG 2000 P (¹)	2875	90.56	0.44	77.46	1.11	80.90	0.50	0.920	6.00	63	172
ZEN ECG 2500 P (¹)	3370	110.04	0.80	92.61	0.83	100.69	0.90	1.067	7.00	64	210

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

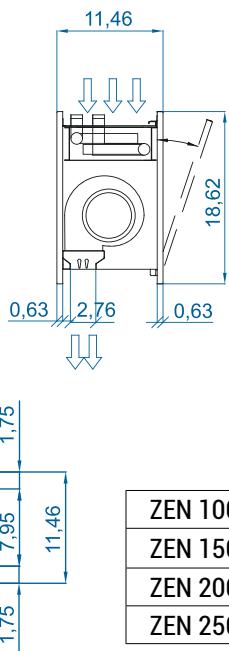
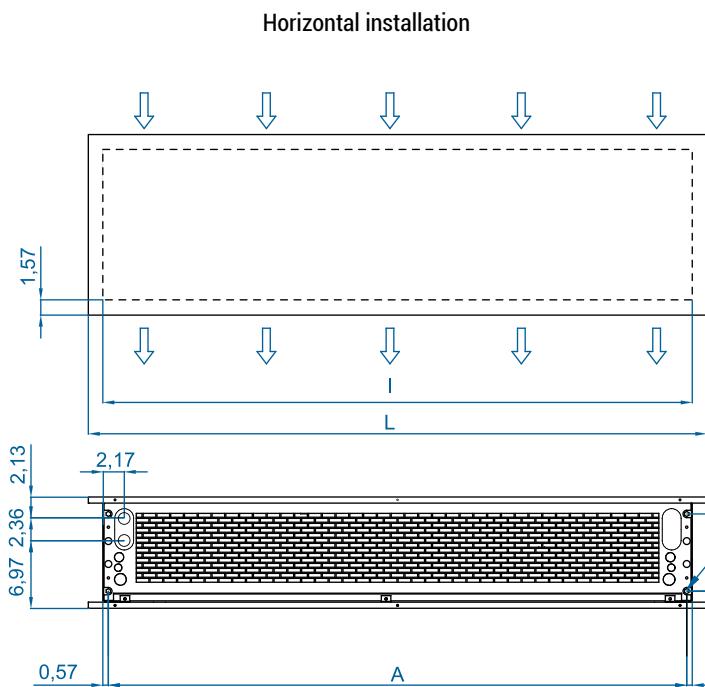
(¹) AMCA Certified.



Selection program



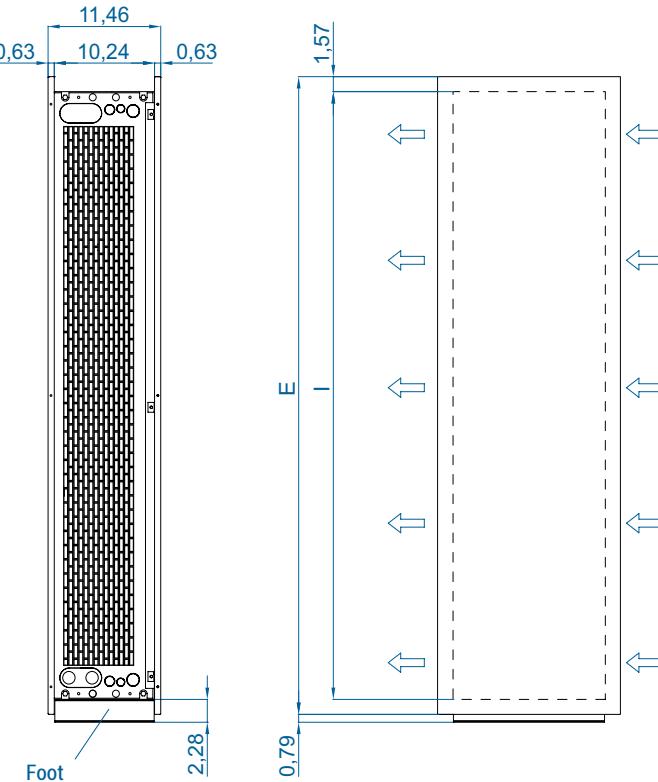
Dimensions



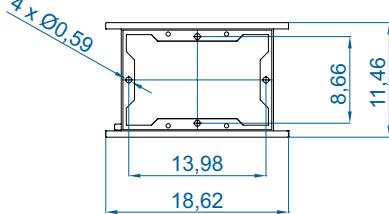
	L	I	A
ZEN 1000	48.03	44.88	43.89
ZEN 1500	63.78	60.79	59.65
ZEN 2000	83.46	80.47	79.33
ZEN 2500	103.15	100.16	99.02

Customizable dimensions on request.

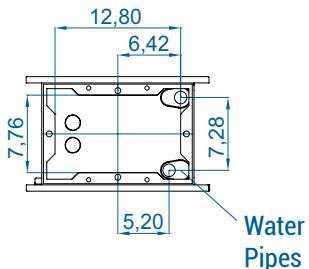
Vertical installation



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.



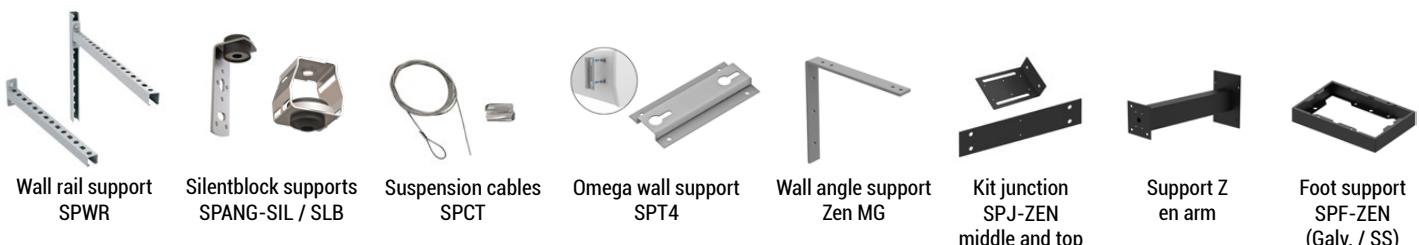
WATCH
VIDEO



SEE
FINISHES
CATALOGUE

Optional accessories

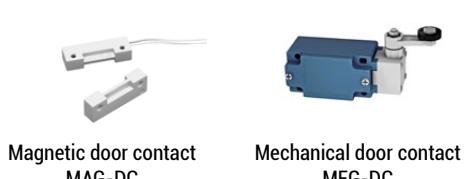
Supports and installation



Control



Sensors



Magnetic door contact
MAG-DC
✓ Included

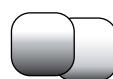
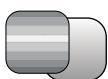
Mechanical door contact
MEG-DC



Technical Features



Faceted / Smooth Standard RAL 9006 / 9016 SS Brushed / Polished Other colors and materials on request



Range
Up to 13.8 ft



Airflow / Length
1200 - 3500 cfm
3.2 ft to 10.5 ft



Fans
Centrifugal
5-speed



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



Heating capacity
E : 2.5 - 30.5 kW
P : 30.23 - 114.75 kBTu/h



Control
A, E : Plug&Play Advanced PRO
P : 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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



✳ UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
RUND G 1000 A	1250	0.357	1.70	-	-	-	56	101
RUND G 1500 A	1650	0.476	2.27	-	-	-	57	150
RUND G 2000 A	2500	0.714	3.41	-	-	-	58	196
RUND G 2500 A	2900	0.833	3.97	-	-	-	59	216
RUND G 3000 A	3300	0.952	4.54	-	-	-	60	238
RUND ECG 1000 A	1400	0.374	2.84	-	-	-	60	101
RUND ECG 1500 A	1900	0.494	3.78	-	-	-	61	150
RUND ECG 2000 A	2800	0.748	5.68	-	-	-	62	196
RUND ECG 2500 A	3300	0.868	6.62	-	-	-	63	216
RUND ECG 3000 A	3760	0.987	7.57	-	-	-	64	238



UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power	Ventilation current	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
		240V-1ph~60Hz	240V-1ph~60Hz					
		cfm	kW	A	%	fpm	fpm	lb
RUND G 1000 A	1320	0.439	1.80	-	-	-	57	101
RUND G 1500 A	1760	0.585	2.40	-	-	-	58	150
RUND G 2000 A	2630	0.878	3.60	-	-	-	59	196
RUND G 2500 A	3070	1.024	4.20	-	-	-	60	216
RUND G 3000 A	3510	1.171	4.80	-	-	-	61	238
RUND ECG 1000 A	1500	0.460	3.00	80	3541	2762	61	101
RUND ECG 1500 A	2000	0.607	4.00	72	3455	2728	62	150
RUND ECG 2000 A	2980	0.920	6.00	80	3541	2762	63	196
RUND ECG 2500 A	3490	1.067	7.00	75	3488	2742	64	216
RUND ECG 3000 A	4000	1.214	8.00	72	17.55	13.86	65	238

ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²)	Ventilation power	Ventilation current	Noise level (5 m)	Weight				
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	208V-1ph ~60Hz	208V-1ph ~60Hz			
		cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RUND G 1000 E	1220	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	119	
RUND G 1500 E	1630	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	179	
RUND G 2000 E	2440	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	236	
RUND G 2500 E	2850	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	260	
RUND G 3000 E	3250	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	282	
RUND ECG 1000 E	1380	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.84	60	119	
RUND ECG 1500 E	1850	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.494	3.78	61	179	
RUND ECG 2000 E	2760	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.68	62	236	
RUND ECG 2500 E	3230	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.868	6.62	63	260	
RUND ECG 3000 E	3700	6.5/8/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.987	7.56	64	282	

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 (²)	Ventilation power	Ventilation current	Noise level (5 m)	Weight				
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	240V-1ph ~60Hz	240V-1ph ~60Hz			
		cfm	kW	kW	kW	kW	kW	A	dB(A)	lb
RUND G 1000 E	1300	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	119	
RUND G 1500 E	1730	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	58	179	
RUND G 2000 E	2600	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	236	
RUND G 2500 E	3030	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1,024	4.20	60	260	
RUND G 3000 E	3460	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.171	4.80	61	282	
RUND ECG 1000 E	1470	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	119	
RUND ECG 1500 E	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.607	4.00	62	179	
RUND ECG 2000 E	2935	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	236	
RUND ECG 2500 E	3435	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.067	7.00	64	260	
RUND ECG 3000 E	3930	6.5/8/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.215	8.00	65	282	

(²) Under request other electrical heating power can be limited.



WATER HEATED 208V-1ph~60Hz (³)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	1200	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	56	115
RUND G 1500 P	1600	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	170
RUND G 2000 P	2400	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	220
RUND G 2500 P	2785	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	240
RUND G 3000 P	3180	120.45	1.06	98.24	1.10	103.66	0.93	0.952	4.54	60	262
RUND ECG 1000 P	1350	38.69	1290	34.84	6510	35.40	0.28	0.374	2.84	60	115
RUND ECG 1500 P	1820	56.20	990	51.76	8440	54.94	0.87	0.494	3.78	61	170
RUND ECG 2000 P	2700	87.38	2830	74.52	7170	77.66	0.46	0.748	5.68	62	220
RUND ECG 2500 P	3160	109.33	5180	86.06	5330	96.53	0.84	0.868	6.62	63	240
RUND ECG 3000 P	3630	131.09	8520	107.45	8860	114.20	1.10	0.987	7.57	64	262

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

WATER HEATED 240V-1ph~60Hz (³)

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	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	1265	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	57	115
RUND G 1500 P	1700	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	170
RUND G 2000 P	2525	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	220
RUND G 2500 P	2950	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	240
RUND G 3000 P	3350	125.33	1.14	102.47	1.18	108.47	1.01	1.171	4.80	61	262
RUND ECG 1000 P	1440	40.06	0.20	36.13	1.01	36.85	0.30	0.460	3.00	61	115
RUND ECG 1500 P	1930	58.31	0.15	53.84	1.31	57.32	0.94	0.607	4.00	62	170
RUND ECG 2000 P	2875	90.56	0.44	77.46	1.11	80.90	0.50	0.920	6.00	63	220
RUND ECG 2500 P	3370	110.04	0.80	92.61	0.83	100.69	0.90	1.067	7.00	64	240
RUND ECG 3000 P	3830	136.14	1.32	111.82	1.38	119.29	1.19	1.214	8.00	65	262

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

(³) Air curtain with CSA components, but without being certified.

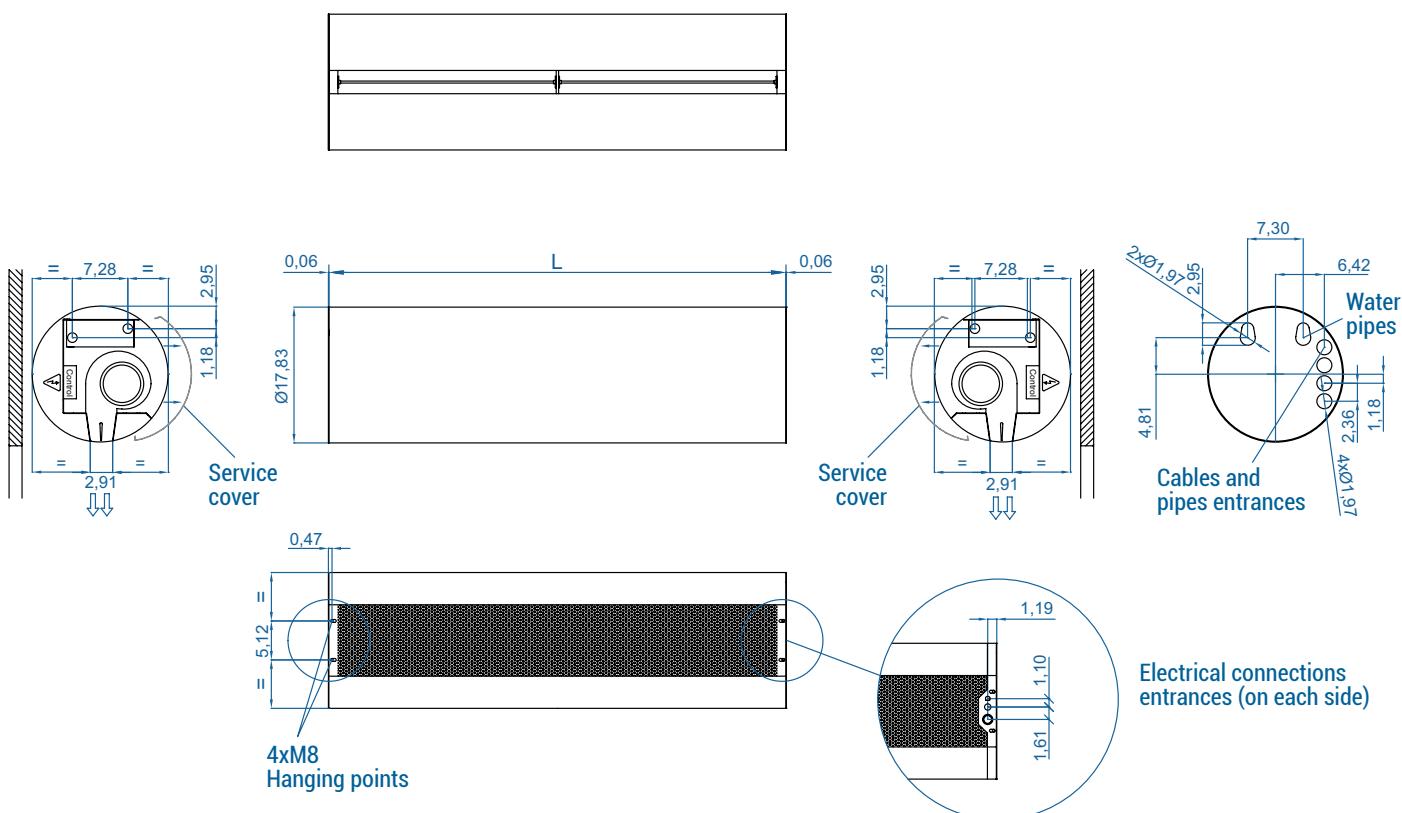


Selection program

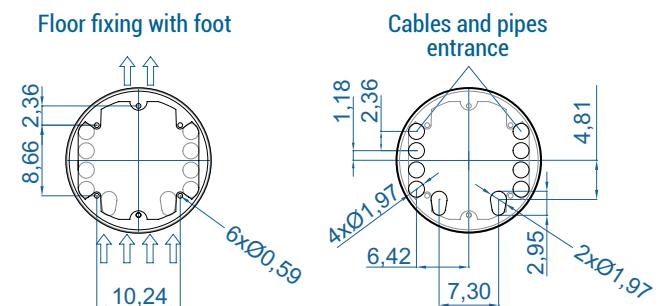


Dimensions

Horizontal installation

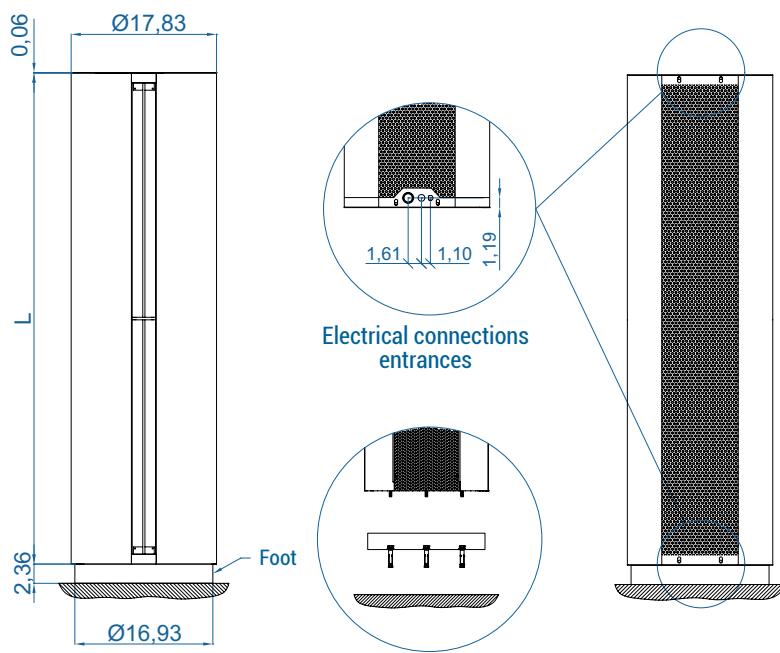


Vertical installation



	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.



WATCH VIDEO
Finishes and configurations

CAD drawings, installation manuals and other documentation





Installation configurations and finishes



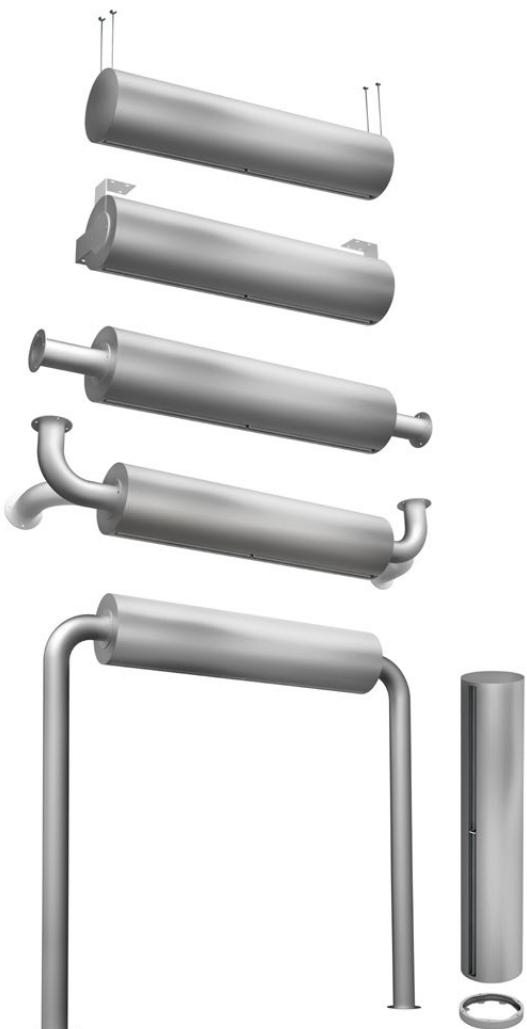
SEE FINISHES CATALOGUE



WATCH VIDEO



Wide variety of finishes available



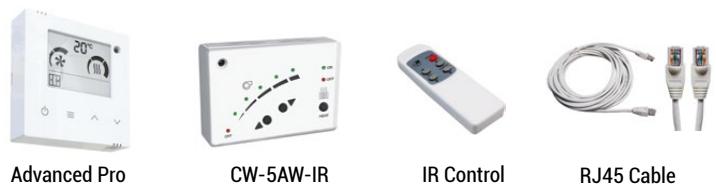
Multiple installation configurations and brackets

Optional accessories

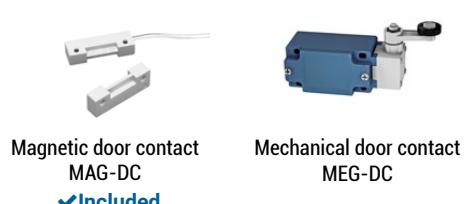
Supports and installation



Control



Sensors





Technical Features



Range

Up to 13.8 ft



Heating types

E : electrical 3 stages
P : water
A : unheated



Casing

Galvanised Steel [*]



Airflow / Length

1200 - 3490 cfm
3.2 ft to 10.5 ft

Heating capacity

E : 2.5 - 30.5 kW
P : 30.23 - 114.75
kBtu/h



Fans

Centrifugal
5-speed

Control

A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote control



Outlet lamellas

Aluminium, airfoil type

[*] Customizable dimensions on request

RAL 9016 standard

Other colors on request

Stainless steel

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.

"A", "E" type includes Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.
"P" type includes Plug&Play control with 7 m RJ45 cable, infrared remote control and magnetic door contact. For electrical heated models also thermostat.

CSA certified:



* UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
ROTO G 1000 A	1250	0.357	1.70	-	-	-	56	-
ROTO G 1500 A	1650	0.476	2.27	-	-	-	57	-
ROTO G 2000 A	2500	0.714	3.41	-	-	-	58	-
ROTO G 2500 A	2900	0.833	3.97	-	-	-	59	-
ROTO ECG 1000 A	1400	0.374	2.84	-	-	-	60	-
ROTO ECG 1500 A	1900	0.494	3.78	-	-	-	61	-
ROTO ECG 2000 A	2800	0.748	5.68	-	-	-	62	-
ROTO ECG 2500 A	3300	0.868	6.62	-	-	-	63	-



⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz		Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
		cfm	kW						
ROTO G 1000 A	1320	0.439	1.80	-	-	-	-	57	-
ROTO G 1500 A	1760	0.585	2.40	-	-	-	-	58	-
ROTO G 2000 A	2630	0.878	3.60	-	-	-	-	59	-
ROTO G 2500 A	3070	1.024	4.20	-	-	-	-	60	-
ROTO ECG 1000 A	1500	0.460	3.00	80	3541	2762	61	-	-
ROTO ECG 1500 A	2000	0.607	4.00	72	3455	2728	62	-	-
ROTO ECG 2000 A	2980	0.920	6.00	80	3541	2762	63	-	-
ROTO ECG 2500 A	3490	1.067	7.00	75	3488	2742	64	-	-

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow	Electrical heating capacity (²)	Ventilation power 208V-1ph~60Hz	Ventilation current 208V-1ph~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	kW	A	dB(A)
ROTO G 1000 E	1220	2.5/5/7.5	2.5/5/7.5	3/5.5/8.5	3.5/4/7.5	0.357	1.70	56	-
ROTO G 1500 E	1630	3.5/6.5/10	3.5/7/10.5	4/7.5/11.5	5/5.5/10.5	0.476	2.27	57	-
ROTO G 2000 E	2440	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	-
ROTO G 2500 E	2850	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	-
ROTO ECG 1000 E	1380	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.838	60	-
ROTO ECG 1500 E	1850	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.494	3.784	61	-
ROTO ECG 2000 E	2760	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.676	62	-
ROTO ECG 2500 E	3230	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.868	6.622	63	-

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 (²)	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight			
		208V-3ph~60Hz	460V-3ph~60Hz	480V-3ph~60Hz	575V-3ph~60Hz	kW	kW	A	dB(A)
ROTO G 1000 E	1300	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	-
ROTO G 1500 E	1730	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.585	2.40	58	-
ROTO G 2000 E	2600	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	-
ROTO G 2500 E	3030	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.024	4.20	60	-
ROTO ECG 1000 E	1470	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	-
ROTO ECG 1500 E	2000	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.607	4.00	62	-
ROTO ECG 2000 E	2935	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	-
ROTO ECG 2500 E	3435	5.5/9/14.5	9.3/18.7/28	10.2/20.3/30.5	9.5/19/28.5	1.067	7.00	64	-

(²) Under request other electrical heating power can be limited.



WATER HEATED 208V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 208V-1ph ~60Hz	Ventilation current 208V-1ph ~60Hz	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	1200	29.52	0.03	31.94	0.81	32.21	0.23	0.357	1.70	56	-
ROTO G 1500 P	1600	51.69	0.12	47.39	1.05	49.92	0.73	0.476	2.27	57	-
ROTO G 2000 P	2400	80.42	0.35	68.31	0.89	70.60	0.39	0.714	3.41	58	-
ROTO G 2500 P	2785	100.52	0.65	81.48	0.66	87.69	0.70	0.833	3.97	59	-
ROTO ECG 1000 P	1350	38.69	1290	34.84	6510	35.40	0.28	0.374	2.84	60	-
ROTO ECG 1500 P	1820	56.20	990	51.76	8440	54.94	0.87	0.494	3.78	61	-
ROTO ECG 2000 P	2700	87.38	2830	74.52	7170	77.66	0.46	0.748	5.68	62	-
ROTO ECG 2500 P	3160	109.33	5180	86.06	5330	96.53	0.84	0.868	6.62	63	-

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

WATER HEATED 240V-1ph~60Hz ⁽³⁾

Model	Airflow	P86 (80/60°C)		P64 (60/40°C)		P54 (50/40°C)		Ventilation power 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	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	1265	37.06	0.17	33.27	0.87	33.68	0.25	0.439	1.80	57	-
ROTO G 1500 P	1700	53.78	0.13	49.41	1.13	52.21	0.80	0.585	2.40	58	-
ROTO G 2000 P	2525	83.63	0.38	71.18	0.96	73.84	0.42	0.878	3.60	59	-
ROTO G 2500 P	2950	104.55	0.69	84.96	0.71	91.72	0.76	1.024	4.20	60	-
ROTO ECG 1000 P	1440	40.06	0.20	36.13	1.01	36.85	0.30	0.460	3.00	61	-
ROTO ECG 1500 P	1930	58.31	0.15	53.84	1.31	57.32	0.94	0.607	4.00	62	-
ROTO ECG 2000 P	2875	90.56	0.44	77.46	1.11	80.90	0.50	0.920	6.00	63	-
ROTO ECG 2500 P	3370	110.04	0.80	92.61	0.83	100.69	0.90	1.067	7.00	64	-

Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

⁽³⁾ Air curtain with CSA components, but without being certified.



Selection program



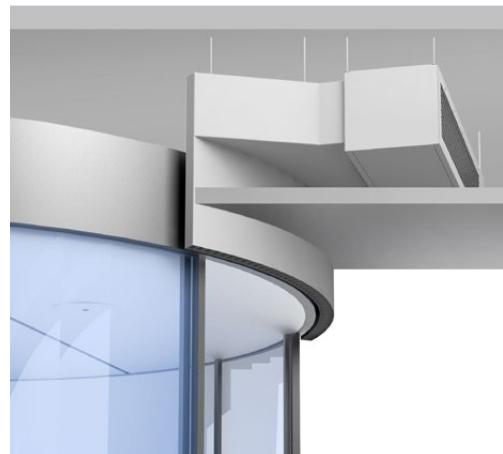
Installation configurations

Standard: Above de door



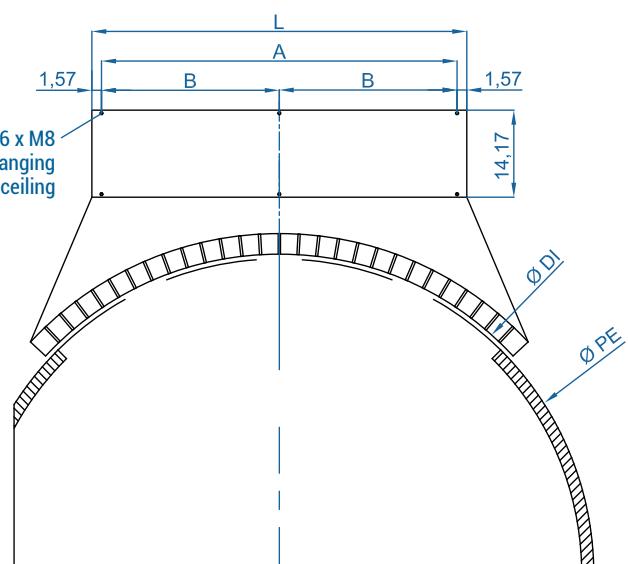
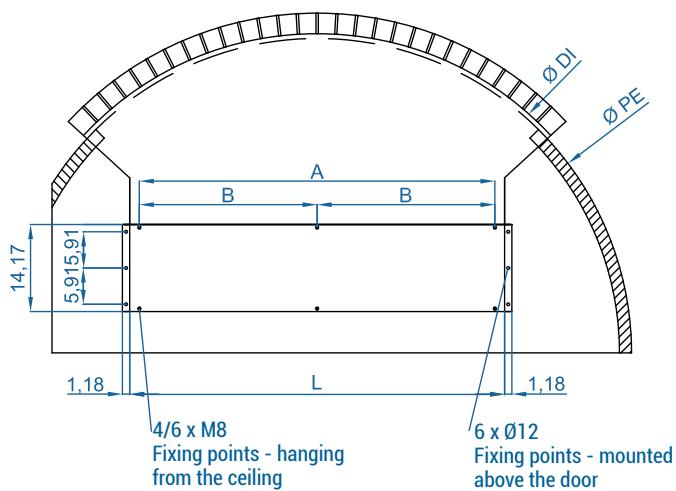
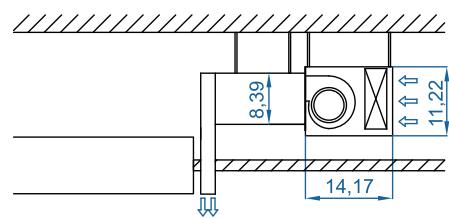
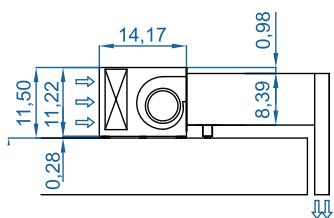
Mounted installation

Inverted: False ceiling mounting



Hanging installation

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

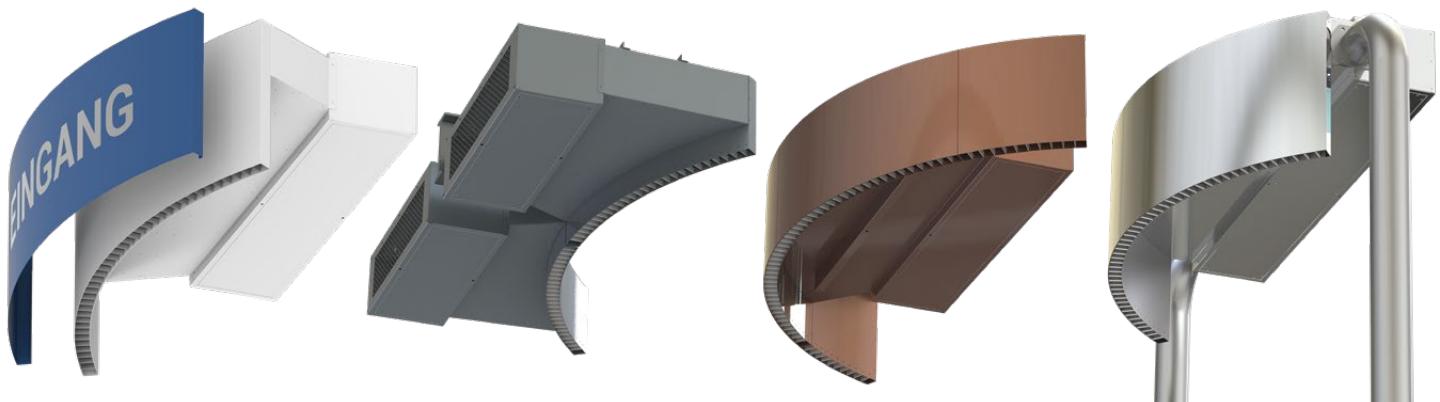
CAD drawings, installation manuals
and other documentation



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 accessories

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



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

Sensors



Magnetic
door contact MAG-DC
✓ Included



Mechanical
door contact MEC-DC



Technical features



RAL 9016 standard



Stainless steel



Other colors on request

Range
Up to 13.8 ftAirflow / Length
955 - 4100 cfm
3.2 ft to 9.8 ftFans
Centrifugal
5-speedHeating types
A : unheatedHeating capacity
-Control
Plug&Play Advanced PROCasing
Galvanised SteelGrille type
Micro-perforated with prefilter functionOutlet 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 Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.

CSA certified:



* UNHEATED 208V-1ph~60Hz

Model	Airflow	Ventilation power	Ventilation current	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
		208V-1ph~60Hz	A					
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
KM 1000 A	955	0.238	1.14	58	3132	2300	54	68
KM 1500 A	1430	0.357	1.70	58	3132	2300	55	101
KM 2000 A	1910	0.476	2.27	58	3132	2300	56	128
KM 2500 A	2385	0.595	2.84	58	3132	2300	57	159
KM 3000 A	2860	0.714	3.41	58	3132	2300	58	190
KG 1000 A	1265	0.357	1.70	-	-	-	56	95
KG 1500 A	1685	0.476	2.27	-	-	-	57	112
KG 2000 A	2525	0.714	3.41	-	-	-	58	176
KG 2500 A	2950	0.833	3.97	-	-	-	59	185
KG 3000 A	3370	0.952	4.54	-	-	-	60	209
KECG 1000 A	1450	0.350	2.63	91	3144	2750	60	95
KECG 1500 A	1920	0.466	3.50	91	3144	2750	61	112
KECG 2000 A	2880	0.699	5.25	91	3144	2750	62	176
KECG 2500 A	3360	0.816	6.13	91	3144	2750	63	185
KECG 3000 A	3840	0.932	7.00	91	3144	2750	64	209



⌘ UNHEATED 240V-1ph~60Hz

Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
KM 1000 A	1020	0.293	1.20	58	3238	2400	55	68
KM 1500 A	1520	0.439	1.80	58	3238	2400	56	101
KM 2000 A	2030	0.585	2.40	58	3238	2400	57	128
KM 2500 A	2530	0.732	3.00	58	3238	2400	58	159
KM 3000 A	3040	0.878	3.60	58	3238	2400	59	190
KG 1000 A	1350	0.439	1.80	-	-	-	57	95
KG 1500 A	1800	0.585	2.40	-	-	-	58	112
KG 2000 A	2700	0.878	3.60	-	-	-	59	176
KG 2500 A	3140	1.024	4.20	-	-	-	60	185
KG 3000 A	3580	1.171	4.80	-	-	-	61	209
KECG 1000 A	1530	0.454	3.00	87	3375	3016	61	95
KECG 1500 A	2050	0.573	3.70	91	3252	2868	62	112
KECG 2000 A	3060	0.908	6.00	87	3374	3016	63	176
KECG 2500 A	3600	1.027	6.70	89	3300	2927	64	185
KECG 3000 A	4100	1.146	7.40	91	3252	2868	65	209

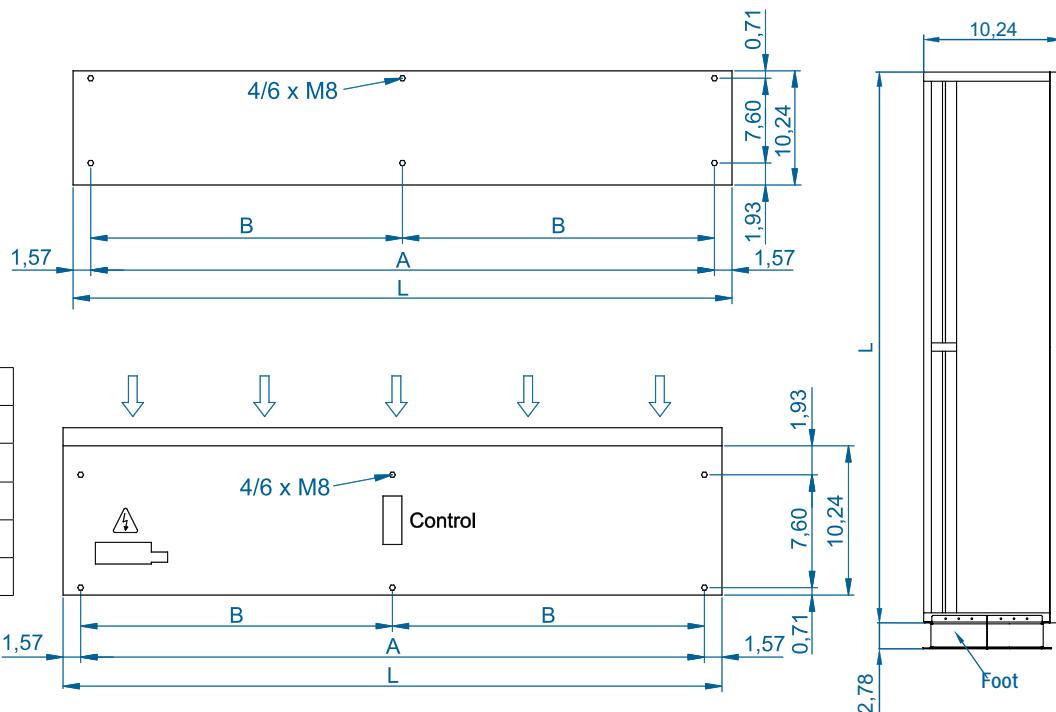


Selection program



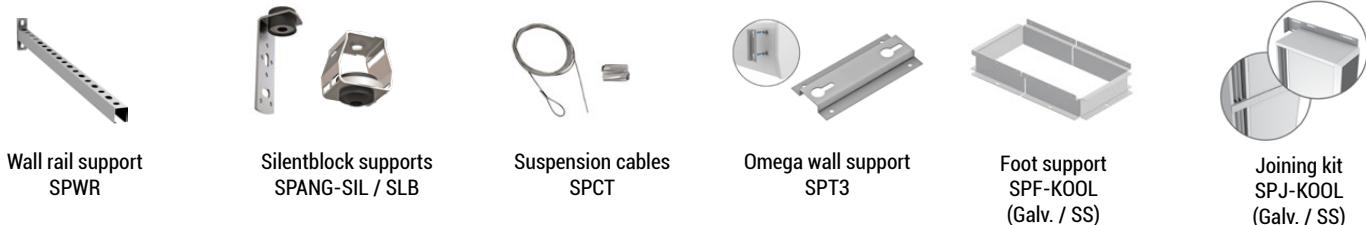
Dimensions

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



Control



Sensors



CAD drawings, installation manuals
and other documentation





Technical Features



Range
Up to 13.8 ft



Airflow / Length
955 - 3600 cfm
3.2 ft to 8.2 ft



Fans
Centrifugal
5-speed



Heating types
A : unheated



Heating capacity
-



Control
Plug&Play Advanced PRO

RAL 9016
standard



Other colors
on request



Casing
Galvanised Steel



Grille type
**Micro-perforated
with prefilter function**



Outlet lamellas
Aluminium, airfoil type

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 Advanced PRO control with LCD display and integrated thermostat, door contact, 23ft / 7m RJ45 cable and remote control.

CSA certified:



UNHEATED 208V-1ph~60Hz

Model	Airflow cfm	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity fpm	Outlet average velocity fpm	Noise level (5 m) dB(A)	Weight lb
CR M 1000 A	955	0.238	1.14	58	3132	2300	54	73
CR M 1500 A	1430	0.357	1.70	58	3132	2300	55	110
CR M 2000 A	1910	0.476	2.27	58	3132	2300	56	135
CR M 2500 A	2385	0.595	2.84	58	3132	2300	57	150
CR G 1000 A	1265	0.357	1.70	-	-	-	56	82
CR G 1500 A	1685	0.476	2.27	-	-	-	57	121
CR G 2000 A	2525	0.714	3.41	-	-	-	58	15
CR G 2500 A	2950	0.833	3.97	-	-	-	59	172
CR ECG 1000 A	1450	0.350	2.63	91	3144	2750	60	82
CR ECG 1500 A	1920	0.466	3.50	91	3144	2750	61	121
CR ECG 2000 A	2880	0.699	5.25	91	3144	2750	62	15
CR ECG 2500 A	3360	0.816	6.13	91	3144	2750	63	172

RECESSED COMPACT

HIGH PRESSURE RECESSED AIR CURTAINS
FOR COMMERCIAL AND INDUSTRIAL DOORS



UNHEATED 240V-1ph~60Hz

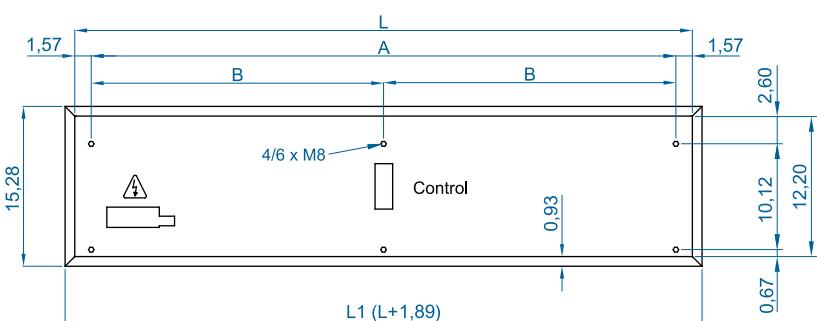
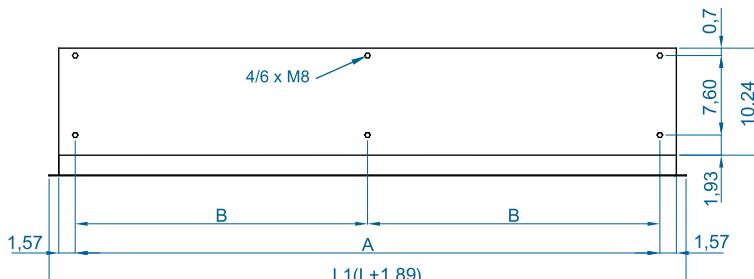
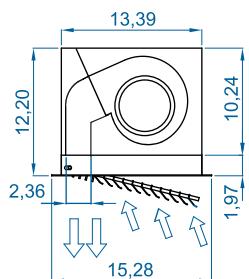
Model	Airflow	Ventilation power 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Outlet Uniformity	Outlet maximum velocity	Outlet average velocity	Noise level (5 m)	Weight
	cfm	kW	A	%	fpm	fpm	dB(A)	lb
CR M 1000 A	1020	0.293	1.20	58	3238	2400	55	73
CR M 1500 A	1520	0.439	1.80	58	3238	2400	56	110
CR M 2000 A	2030	0.585	2.40	58	3238	2400	57	135
CR M 2500 A	2530	0.732	3.00	58	3238	2400	58	150
CR G 1000 A	1350	0.439	1.80	-	-	-	57	82
CR G 1500 A	1800	0.585	2.40	-	-	-	58	121
CR G 2000 A	2700	0.878	3.60	-	-	-	59	15
CR G 2500 A	3140	1.024	4.20	-	-	-	60	172
CR ECG 1000 A	1530	0.454	3.00	87	3375	3016	61	82
CR ECG 1500 A	2050	0.573	3.70	91	3252	2868	62	121
CR ECG 2000 A	3060	0.908	6.00	87	3374	3016	63	15
CR ECG 2500 A	3600	1.027	6.70	89	3300	2927	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



Optional accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT

Control



Advanced Pro
✓ Included



IR Control
✓ Included



RJ45 Cable
✓ Included

Sensors



Magnetic
door contact MAG-DC
✓ Included



Mechanical door contact
MEC-DC

WATER HEATED AIR CURTAINS



Power Coefficients

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

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	59°F	64°F	68°F	Coil	Difference	Temperatures	59°F	64°F	68°F
176/140 2 rows	68°F	212/176	1.58	1.53	1.46	122/104 4 rows	68°F	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
	59°F	212/185	1.72	1.64	1.59		59°F	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			50°F	140/122	1.71	1.57
140/104 3 rows	68°F	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						
		212/176	2.86	2.71	2.62						
	59°F	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						
		140/113	-	1.22	1.14						

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.

Example of heat capacity calculation:

Model M 2000 P 176/140°F

Air inlet temperature 59°F, Water temperature 194/158°F



Selection program

$$\text{HEAT CAPACITY} = \frac{\text{Nominal Power}}{(70.50 \text{ kBtu/h})} \times \text{Coefficient (1.35)} = 95.15 \text{ kBtu/h}$$

ENERGY SAVING EC MODELS



EC Technology

The 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?

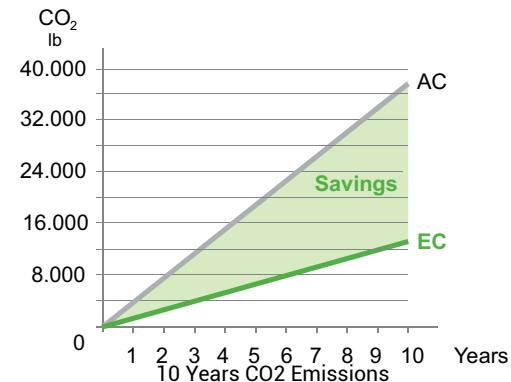
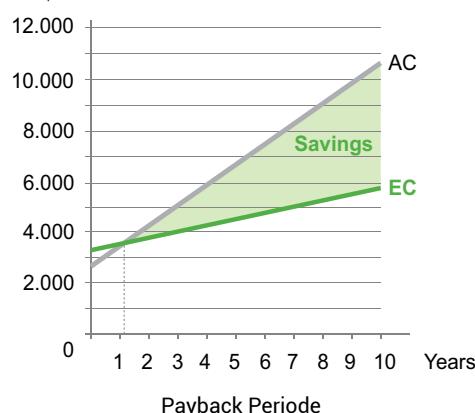
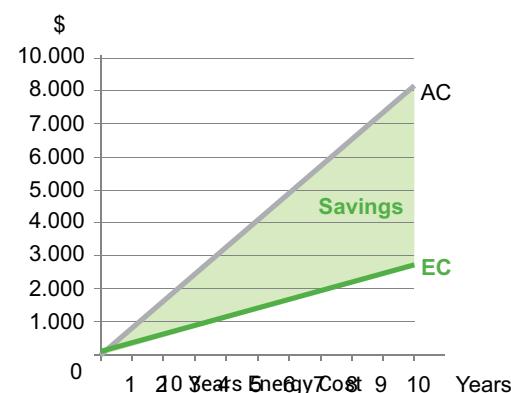
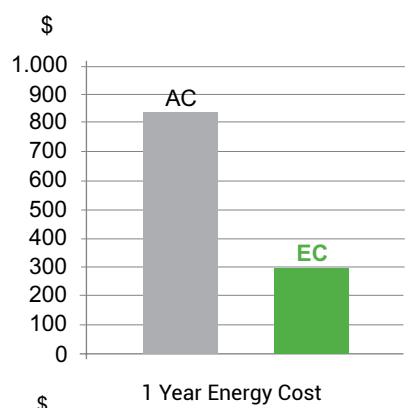
Example:

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	2684	\$/unit	3357	\$/unit	+ 673 \$
Energy Consumption	15761	kBtu	5527	kBtu	- 10234 kBtu
Energy Cost	844	\$	295	\$	- 549 \$
CO2 Emissions	4076	lb	1429	lb	- 2648 lb

Result:

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





Basic control (Water heated only)

Two ranges of control panels, both 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 water heated air curtains: Windbox, Recessed Windbox, Dam, Recessed Dam, Invisair, Smart, Zen, Rund, Rotowind, Kool, Recessed Compact.

CW-5AW-IR

Water heated, 5 fan speed and electro-valve switch



Features

- **Memory:** guarantees that, in the event of a power outage, the selected speed is maintained when service is restored. This function can be activated/deactivated using the ON/OFF switch located inside the regulator.

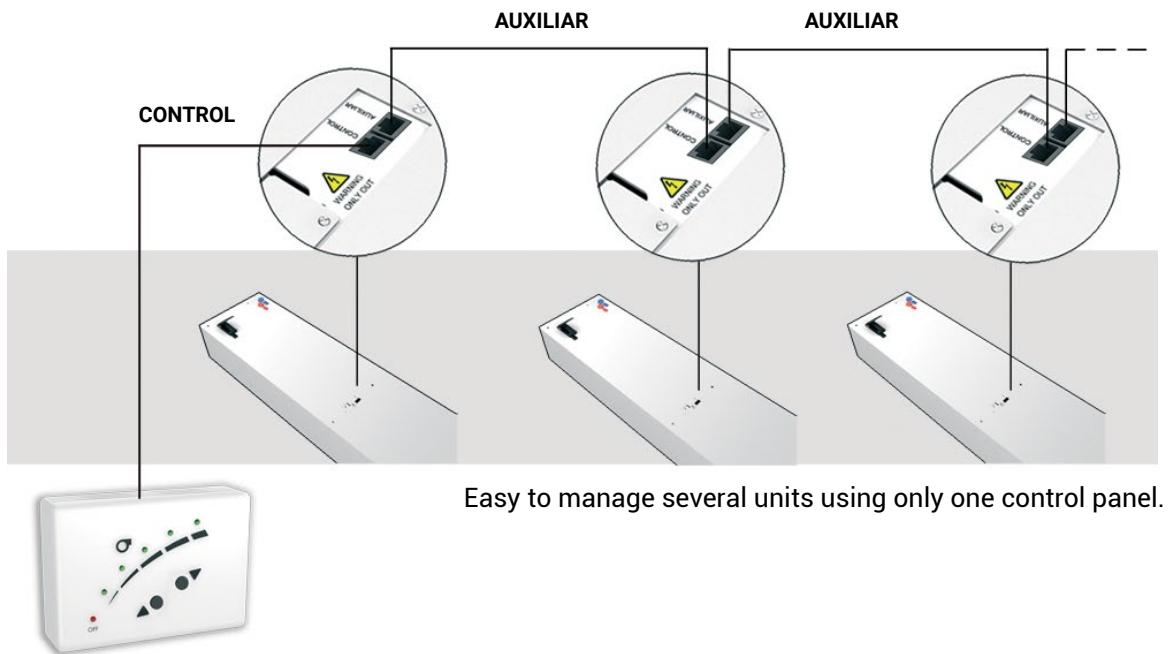


- **External start-stop:** inside the regulator there is the possibility of connecting a normally open contact (1,2) that governs the on/off of the equipment through any external device. The contact is potential free. When the contact is closed, the curtain has a 30-second delay before stopping. It can be used for a timer, temperature sensor, fire alarm, PLC, etc.





Multiple air curtains connection



Optional controls

Interface

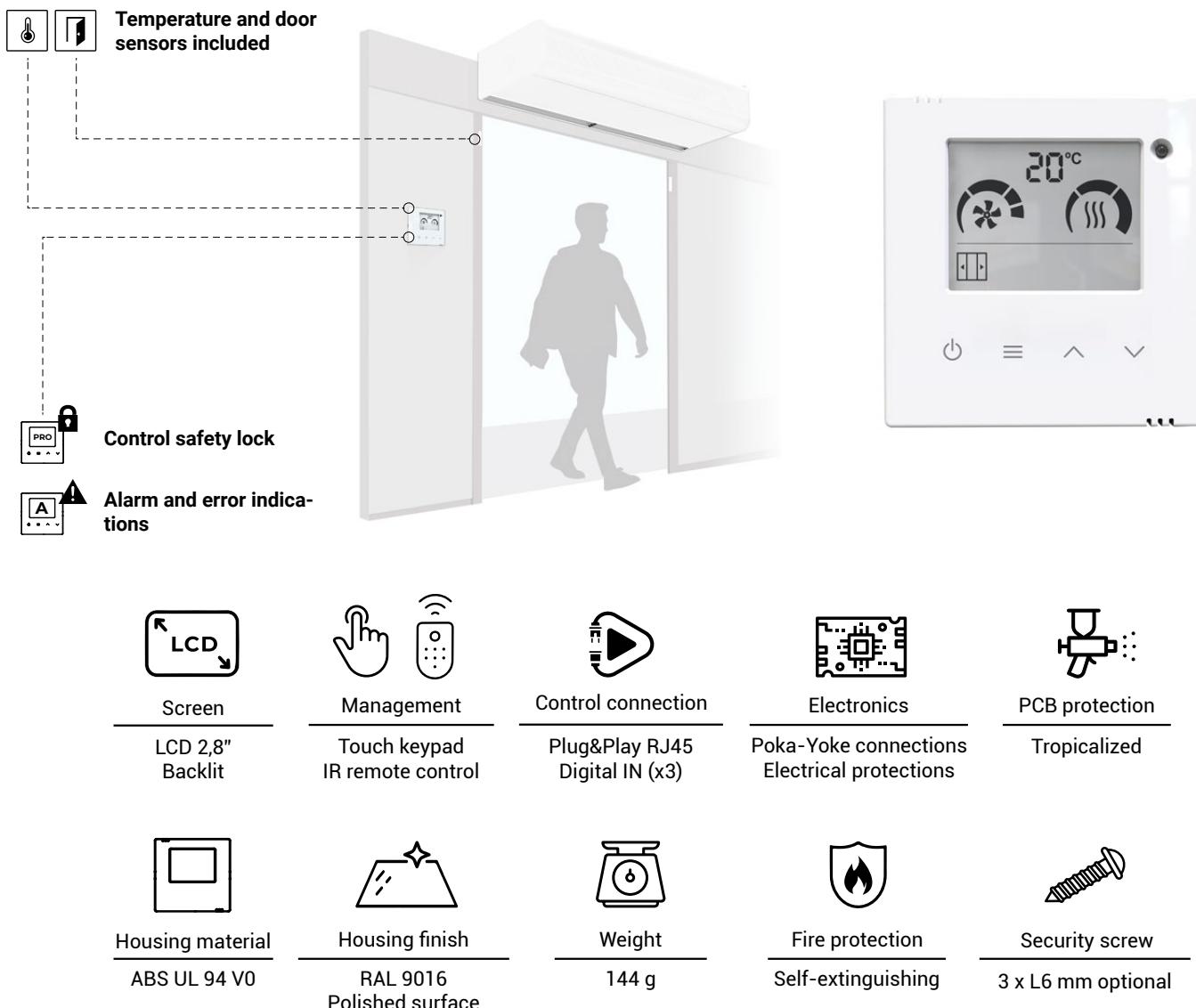
Allows the connection to a centralized management system like BMS and also to standard controllers.





Advanced control: Advanced PRO Control

- **Advanced control for regulating 2 and 5 speed** Airtècnics air curtains. Replaces and improves all previous controls within the basic range (unheated, water heating, electric heating, DX heating), Hand Auto and Interface.
 - **2.8" LCD screen** with backlight and capacitive touch buttons. Infrared remote control.
 - **Plug&Play connection with RJ45 cable**. Automatic initialization with detection of connected hardware, and configuration according to the detected devices.
 - **Robust electronics with electrical and electronic protections**, Poka-yoke connections and protected with varnish to improve corrosion resistance and extend service life.
 - **Sensors included**: Integrated room temperature thermostat + door contact.
 - **Semi-automatic ECO operation**, with ventilation and heating control based on door status and room temperature.
 - **User menu** for setting the set temperature and ventilation and heating according to the door status.
 - **Quick access** for setting the set temperature.
 - **Internal parameters configuration menu**: Door delay, maintenance programming, speed and heating limitation, control memory, temperature units, auto-cooling program, control lock and boost mode.
 - **Alarm and error codes**: Overheating, heating blocked, anti-freeze, fire alarm...
 - **Compact ABS plastic housing** with polished finish in white RAL9016 as standard.
- Easy opening and closing** with snap-in pivots. Optional safety lock with screw.
- **Prepared for wall installation**. Standard wall Fixing points and multiple cable entries on the back cover and sides of the front housing.





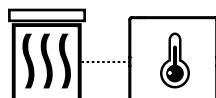
Features



Semi-Automatic ECO Mode: Door status

With the door contact installed, the following functions can be performed:

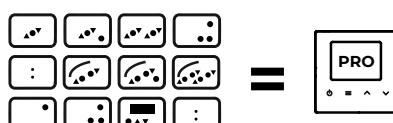
- **Door Open/Closed:** Allows programming different ventilation speeds and heating stages depending on the state of the door.
- **Door Delay:** When the door is closed, the equipment continues to operate as if the door were open for the programmed time (programmable from 0 to 95 seconds).



Semi-Automatic ECO Mode: Temperature

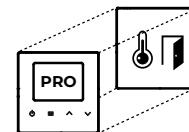
With the temperature sensors (one internal included in Advanced Pro, and the other optional external), the following functions can be carried out:

- **Heating control:** Modifies the heating based on the difference between the ambient temperature and the set temperature. With an optional external sensor, it regulates the heating based on the outside temperature when the door is open.
- **Heating modulation:** Gradually regulates the heating when the ambient temperature approaches or moves away from the set temperature, achieving greater comfort and energy savings.
- **Programmable boost:** Increases the set temperature by 2°C when the door is opened, to improve thermal comfort in winter.
- **Heater function:** With the door closed, the heating continues to run as long as the room temperature is below the set temperature. If the set temperature is exceeded, the curtain stops or continues with only ventilation for when the door is opened again.



A single advanced control for the entire range

Advanced Pro replaces all controls on the basic Airtècnics previous range of 2 and 5 speeds (without heating, water heating, electric heating, DX heating), Hand Auto and Interface. Now all control models in one.



Temperature and door sensors included

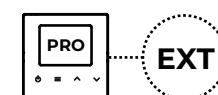
Advanced Pro integrates a room temperature sensor and includes a door sensor.

Together with the set temperature, form a system that allows to regulate ventilation and heating while saving energy.



Control safety lock

The control can be locked with a key combination, and the air curtain will continue to operate normally. When the equipment is locked, the user will not be able to perform any action. In addition, when pressing a button, the alarm symbol will appear on the screen and a deeper beep will be heard indicating that the equipment is locked.



BMS external control

External modification (EXT) of operation through potential-free digital inputs that vary depending on the air curtain model.



3 levels of menu

Quick user access menu: With just one click, you can adjust the set temperature on heating equipment.

User menu: Allows to select the ventilation speed, the heating stage for open and closed door, and temperature setting.

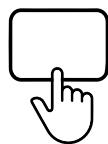
Internal parameters configuration menu:

- Door delay (0 to 95 seconds).
- Maximum speed and heating (open/closed door).
- Maintenance/cleaning (0 to 99 weeks).
- Temperature units (°C or F).
- Control memory (ON by default).
- Boost mode, increases the set temperature when the door is opened (2°C by default).



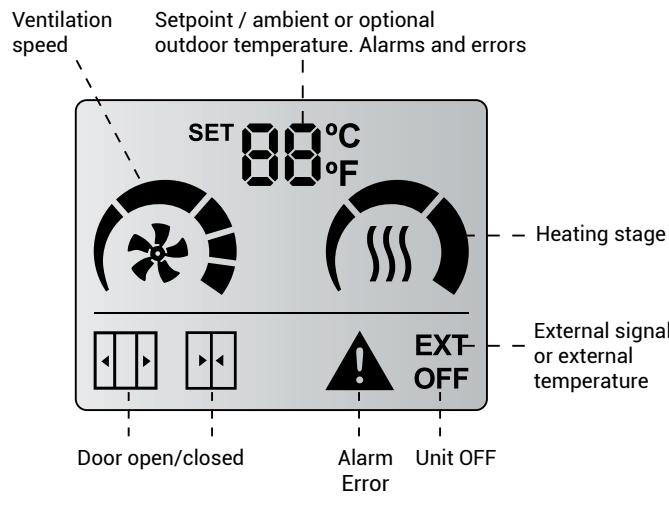
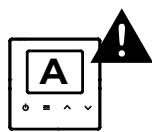
Advanced control: Advanced PRO Control

Features



Interface and control panel

The LCD screen displays fan speed, heating stage, room set temperature and optional outdoor temperature, door status, external control, automatic cooling, as well as alarms and errors.



Alarm and error indications

The control will indicate on the display when there is an alarm (A) or error (E), and will show a letter and number in the same place as the temperature. Visually, some icons and the alarm sign will flash.

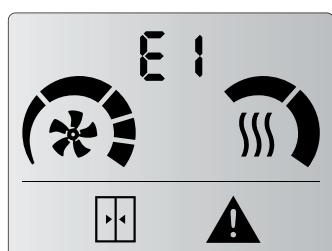
Alarms: Overheat (A1), Heater blocked (A2), Antifreezing(A3), Fire alarm (A6).

Errors: Filter/maintenance (E1), Missing temperature sensor (E3), External alarm (E5).

Alarms and errors depend on the connected equipment and the type of heating.

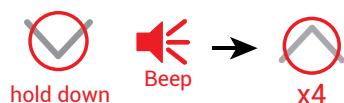
Errors

E1 - Filter/maintenance

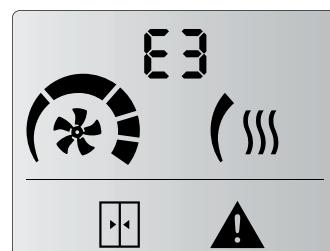


Indicates filter change or cleaning / maintenance.

This alarm is activated by time counter. It does not affect operation. To reset the counter:



E3 - Missing temperature sensor



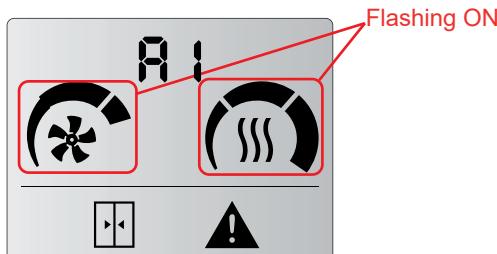
Missing temperature sensor or temperature out of range.

Unit operation adapts and remains working according to inbuilt room temperature sensor.



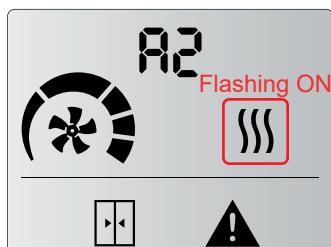
Alarms

A1 - Overheating (only electrical heated)



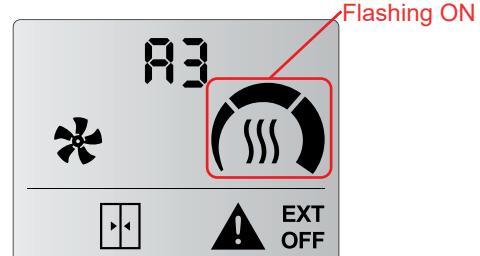
When the unit goes into overheating, it starts a process to cool it down. The ventilation starts to rise up to the maximum each 2 minutes. If overheating persists, the heating is turned down each 2 minutes until it is switched off. If it is still not solved, after 2 minutes heating is blocked and alarm A2 is activated (check A2).

A2 - Heating Blocked (only electrical heated)



The heating is blocked and switched off. It is the overheating safety program. Service must check the unit and fix the problem to avoid internal damages. Once solved, reset the unit.

A3 - Antifreezing (only water heated)



When ambient temperature is below antifreezing temperature set (5°C), the valve opens to protect the water coil and the fan stops functioning. It can be also activated by external antifreezing sensor connected to the PCB or a discharge temperature sensor installed on the air curtain PCB.

A6 - Fire Alarm



Stops and locks the unit. To unlock it, the power supply must be switched off. It is activated with DIN3 digital IN on the control unit.

Technical characteristics



Designed with slots for good ventilation of electronic components.



Standard fixing points on back cover for electrical wall boxes.



Side incisions on both sides of the back cover for easy opening of the case.



Pre-cut holes in the back cover for the entry of cables of different sizes, easily removable with a tool.



The main casing has breaking zones of two different sizes, two located on each side and one at the bottom.



Easy opening and closing with snap-on pivots. Optional safety lock with screw.



Advanced control: Clever Control

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, maintaining comfort while saving energy. It optimizes the ventilation and heating to make an efficient barrier for an optimal climate separation.



Basic and advanced modes

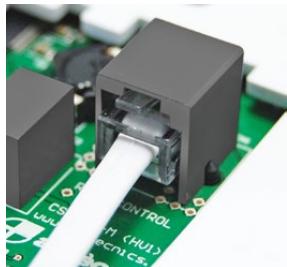


Connectivity Modbus BMS

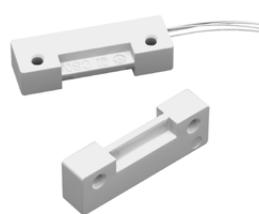


BMS

**Easy
Plug&Play
installation**



**Regulation with valves:
thermostatic,
solenoid,
modulating**



**Ambient
thermostat
and external
temperature
sensors**



CONTROL

Advanced Control: Clever Control

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



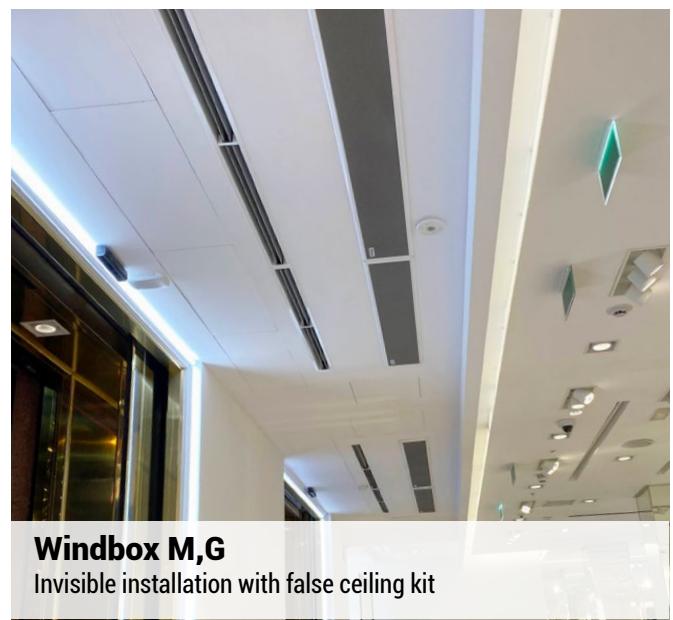
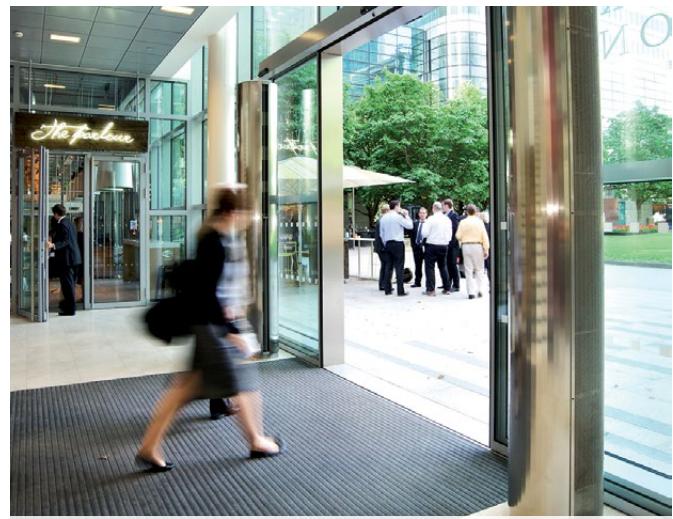
Zen

Elegant with aluminium panels in an offices building



Zen

Exclusive design with custom finishes



GALLERY



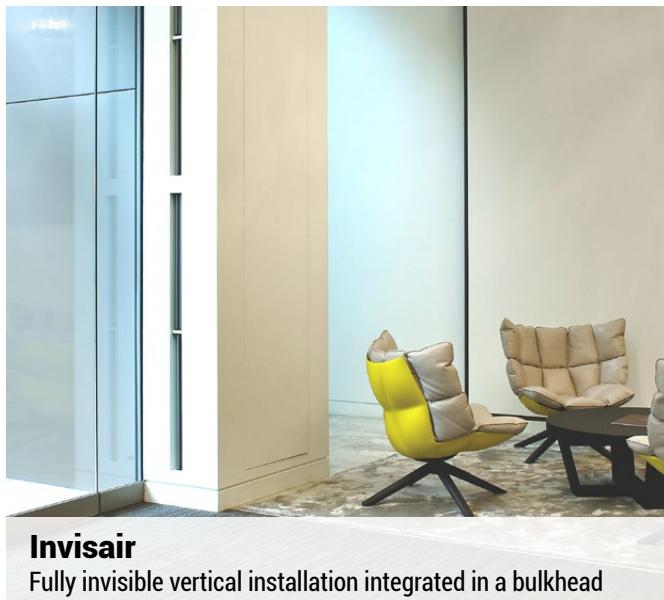
Recessed Dam

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

TOP REFERENCES



Production for world renowned brands



[See all references](#)



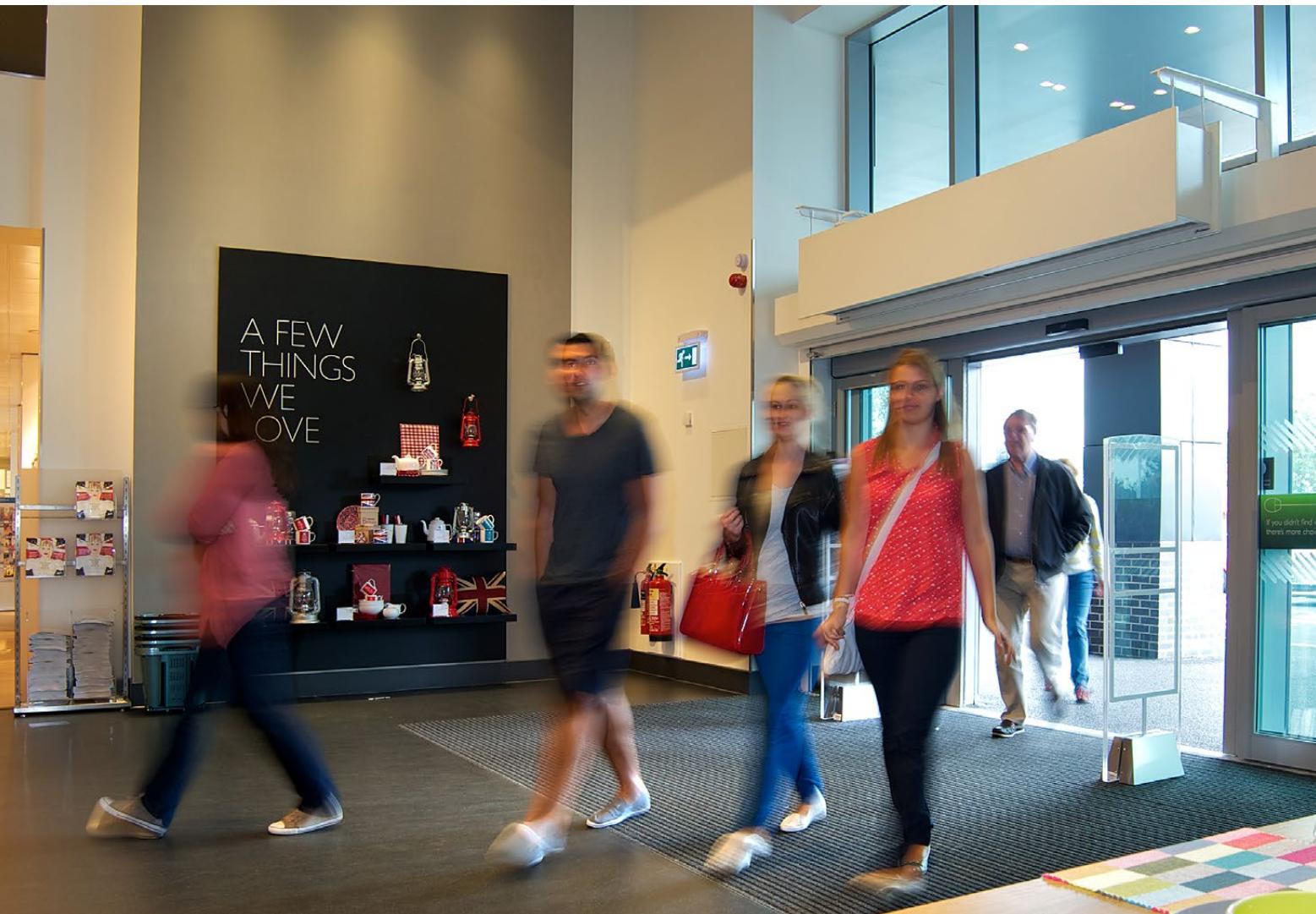
[See all installation photos](#)

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Conca de Barberà, 6 - Pol. Ind. Pla de la Bruguera
E-08211 Castellar del Vallès (Barcelona) Spain
+ 34 93 715 99 88
airtecnics@airtecnics.com

www.airtecnics.com



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1210 Mid-Way Blvd, Unit 20
Mississauga, Ontario, L5T 2B8, Canada
+ 1 (866) 565-1038
info@airtecnicsnorthamerica.com

www.airtecnicsnorthamerica.com

