



AIR CURTAINS FOR CLIMATE SEPARATION

Catalogue



airtècnics
North America



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Airtècnics

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

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

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



Airtècnics headquarters in Castellar del Vallès (Spain)

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

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

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

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

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

The Rosenberg Group

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

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

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



Rosenberg headquarters in Künzelsau (Germany)



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



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



Comfortable 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



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

MAINTAIN:

Thermal comfort (heating /cooling)

Energy efficiency

Air quality and security

Commercial profitability

Visibility and accessibility

Compliance with regulations



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.

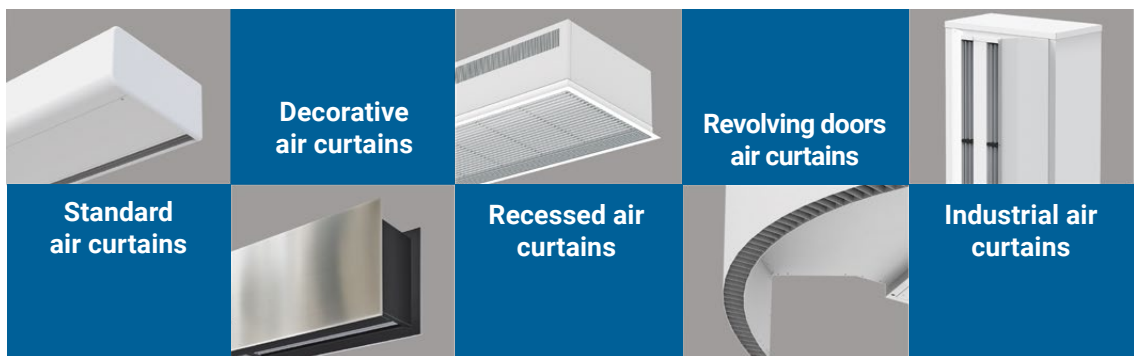
For shops, Airtècnics air curtains allow a clear view of the inside of the shop, welcoming the client to enter easily and freely.

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.

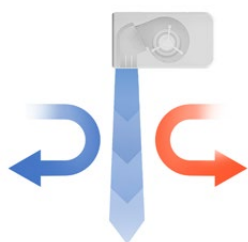
Quality: 100% of the air curtains are tested and verified. Our products are certified CSA, in compliance with the directives and applicable regulations.

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.

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 Airtècnics' website, will help you choose the right air curtain for you.

MODEL	FANS TYPE	HEIGHT RANGE	HEATING			COMMON APPLICATIONS
			A	E	P	
Windbox Recessed Windbox Dam Recessed Dam Invisair * Smart Zen * Rund * Rotowind * Kool ** Recessed Compact **	M G ECG	2.5 - 3.5 m 3 - 4 m 3 - 4.2 m	• • •	• • •	• • •	Medium and large sized commercial doors with a high pedestrian flow. Climate separation and protection against dust, fumes, and pollutants. Isolation and sealing of smoking areas. Multiple installation and false ceiling configurations.

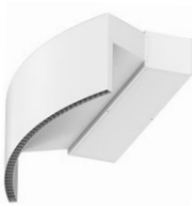
(A) Unheated, (E) Electric Heating, (P) Water Heating

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



Technical Features



Range
Up to 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
1560 - 6940 m³/h
1 m to 3 m



Heating capacity
E : 2 - 30.5 kW
P : 7.13 - 39.9 kW



Grille type
Micro-perforated
with prefilter function



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

RAL 9016 standard Other colors on request Stainless steel

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 (mm)	1000	2000	3000	4000
Core Velocity (m/s)	7.71	6.09	4.86	4.15
Uniformity (%)	84%	93%	95%	93%



0	Core Velocity	Uniformity
1000	7.71m/s	84%
2000	6.09m/s	93%
3000	4.86m/s	95%
4000	4.15m/s	93%

CSA Certified:





✱ UNHEATED 208V-1ph~60Hz

Model	Airflow m ³ /h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
M 1000 A (¹)	1620	0.238	1.14	58	15.91	11.69	54	31
M 1500 A (¹)	2430	0.357	1.70	58	15.91	11.69	55	46
M 2000 A (¹)	3240	0.476	2.27	58	15.91	11.69	56	58
M 2500 A (¹)	4050	0.595	2.84	58	15.91	11.69	57	72
M 3000 A (¹)	4860	0.714	3.41	58	15.91	11.69	58	86
G 1000 A	2145	0.357	1.70	-	-	-	56	43
G 1500 A	2860	0.476	2.27	-	-	-	57	51
G 2000 A	4290	0.714	3.41	-	-	-	58	80
G 2500 A	5005	0.833	3.97	-	-	-	59	84
G 3000 A	5720	0.952	4.54	-	-	-	60	95
ECG 1000 A (¹)	2445	0.350	2.63	91	15.97	13.97	60	43
ECG 1500 A (¹)	3260	0.466	3.50	91	15.97	13.97	61	51
ECG 2000 A (¹)	4890	0.699	5.25	91	15.97	13.97	62	80
ECG 2500 A (¹)	5705	0.816	6.13	91	15.97	13.97	63	84
ECG 3000 A (¹)	6520	0.932	7.00	91	15.97	13.97	64	95

✱ UNHEATED 240V-1ph~60Hz

Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
M 1000 A (¹)	1720	0.293	1.20	58	16.45	12.20	55	31
M 1500 A (¹)	2580	0.439	1.80	58	16.45	12.20	56	46
M 2000 A (¹)	3440	0.585	2.40	58	16.45	12.20	57	58
M 2500 A (¹)	4300	0.732	3.00	58	16.45	12.20	58	72
M 3000 A (¹)	5160	0.878	3.60	58	16.45	12.20	59	86
G 1000 A	2280	0.439	1.80	-	-	-	57	43
G 1500 A	3040	0.585	2.40	-	-	-	58	51
G 2000 A	4560	0.878	3.60	-	-	-	59	80
G 2500 A	5320	1.024	4.20	-	-	-	60	84
G 3000 A	6080	1.171	4.80	-	-	-	61	95
ECG 1000 A (¹)	2600	0.454	3.00	87	17.14	15.32	61	43
ECG 1500 A (¹)	3470	0.573	3.70	91	16.52	14.57	62	51
ECG 2000 A (¹)	5200	0.908	6.00	87	17.14	15.32	63	80
ECG 2500 A (¹)	6070	1.027	6.70	89	16.77	14.87	64	84
ECG 3000 A (¹)	6940	1.146	7.40	91	16.52	14.57	65	95

(¹) AMCA Certified.



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
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
M 1000 E (¹)	1590	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	37
M 1500 E (¹)	2385	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	57
M 2000 E (¹)	3180	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	75
M 2500 E (¹)	3975	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	94
M 3000 E (¹)	4770	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	58	112
G 1000 E	2115	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	52
G 1500 E	2820	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	63
G 2000 E	4230	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	100
G 2500 E	4935	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	106
G 3000 E	5640	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	120
ECG 1000 E (¹)	2415	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	52
ECG 1500 E (¹)	3220	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	63
ECG 2000 E (¹)	4830	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	100
ECG 2500 E (¹)	5635	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	106
ECG 3000 E (¹)	6440	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	120

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) 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 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
M 1000 E (¹)	1690	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	37
M 1500 E (¹)	2535	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	57
M 2000 E (¹)	3380	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	75
M 2500 E (¹)	4225	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	94
M 3000 E (¹)	5070	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	112
G 1000 E	2250	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	52
G 1500 E	3000	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	63
G 2000 E	4500	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	100
G 2500 E	5250	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	106
G 3000 E	6000	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	120
ECG 1000 E (¹)	2550	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	52
ECG 1500 E (¹)	3400	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	63
ECG 2000 E (¹)	5100	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	100
ECG 2500 E (¹)	5950	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	106
ECG 3000 E (¹)	6800	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	120

(¹) AMCA Certified.

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



WATER HEATED 208V-1ph~60Hz

Model	Airflow m ³ /h	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 kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	kW	A	dB(A)	kg
M 1000 P	1560	7.13	150	7.82	4060	7.76	1130	0.185	1.80	55	35
M 1500 P	2340	13.71	710	12.51	6000	13.06	4140	0.278	2.70	56	53
M 2000 P	3120	19.85	1800	16.68	4440	16.97	1900	0.370	3.59	57	69
M 2500 P	3900	25.88	3550	20.80	3570	22.14	3730	0.463	4.49	58	86
M 3000 P	4680	31.94	6140	25.91	6280	27.10	5230	0.555	5.39	59	103
G 1000 P	2055	8.65	210	9.36	5590	9.44	1600	0.278	2.70	55	35
G 1500 P	2740	15.15	850	13.89	7220	14.63	5060	0.370	3.59	56	53
G 2000 P	4110	23.57	2440	20.02	6140	20.69	2700	0.555	5.39	57	69
G 2500 P	4795	29.46	4470	23.88	4560	25.70	4860	0.648	6.29	58	86
G 3000 P	5480	35.30	7330	28.79	7570	30.38	6400	0.740	7.19	59	103
ECG 1000 P (¹)	2355	11.34	1290	10.21	6510	10.37	1900	0.350	2.63	55	35
ECG 1500 P (¹)	3140	16.47	990	15.17	8440	16.10	6000	0.466	3.50	56	53
ECG 2000 P (¹)	4710	25.61	2830	21.84	7170	22.76	3200	0.699	5.25	57	69
ECG 2500 P (¹)	5495	32.04	5180	26.10	5330	28.29	5770	0.816	6.13	58	86
ECG 3000 P (¹)	6280	38.42	8520	31.49	8860	33.47	7600	0.932	7.00	59	103

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 m ³ /h	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 kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	kW	A	dB(A)	kg
M 1000 P	1660	7.46	160	8.15	4370	8.12	1230	0.454	1.90	56	35
M 1500 P	2490	14.26	760	13.04	6460	13.66	4490	0.681	2.85	57	53
M 2000 P	3320	20.65	1930	17.39	4780	17.76	2060	0.908	3.80	58	69
M 2500 P	4150	26.92	3810	21.69	3840	23.16	4040	1.135	4.75	59	86
M 3000 P	4980	33.23	6590	27.01	6760	28.35	5660	1.363	5.70	60	103
G 1000 P	2190	10.86	1190	9.75	6000	9.87	1740	0.681	2.85	56	35
G 1500 P	2920	15.76	910	14.48	7770	15.30	5490	0.908	3.80	57	53
G 2000 P	4380	24.51	2620	20.86	6600	21.64	2930	1.363	5.70	58	69
G 2500 P	5110	30.64	4790	24.90	4910	26.88	5270	1.590	6.65	59	86
G 3000 P	5840	36.73	7870	30.03	8150	31.79	6940	1.817	7.60	60	103
ECG 1000 P (¹)	2500	11.74	1370	10.59	6950	10.80	2040	0.454	3.00	61	35
ECG 1500 P (¹)	3340	17.09	1050	15.78	9050	16.80	6480	0.573	3.70	62	53
ECG 2000 P (¹)	5000	26.54	3020	22.70	7670	23.71	3450	0.908	6.00	63	69
ECG 2500 P (¹)	5840	32.25	5530	27.14	5720	29.51	6220	1.027	6.70	64	86
ECG 3000 P (¹)	6680	39.90	9110	32.77	9510	34.96	8210	1.146	7.40	65	103

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.

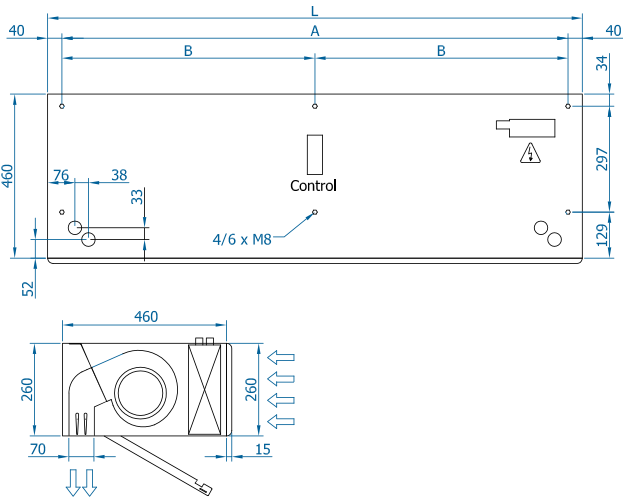


Selection program

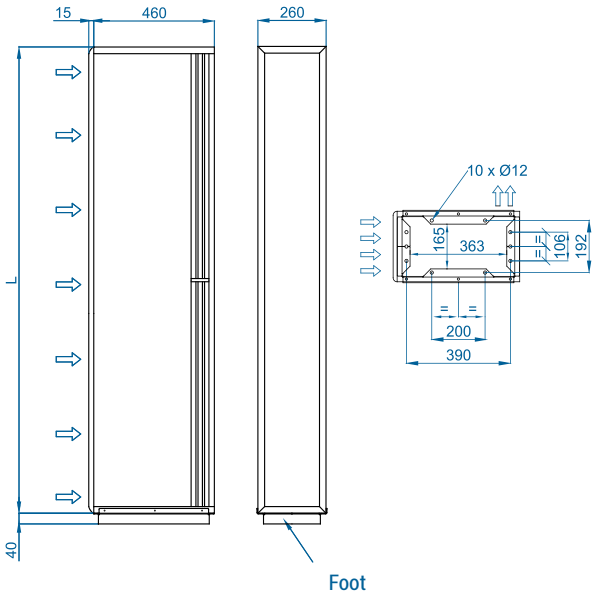


Dimensions

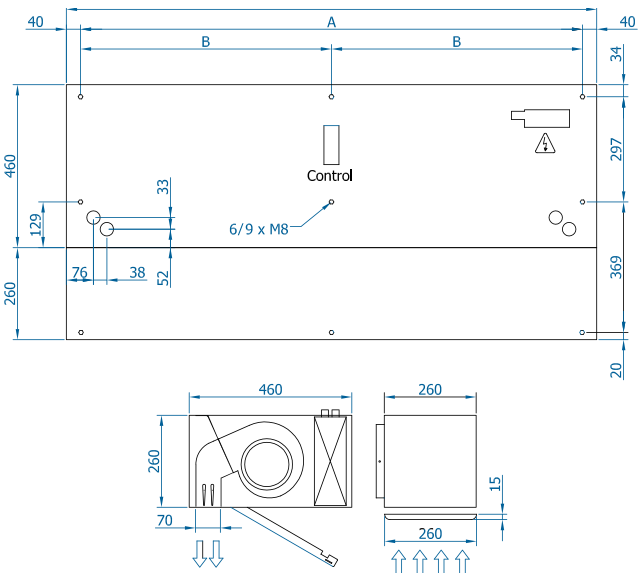
Horizontal installation



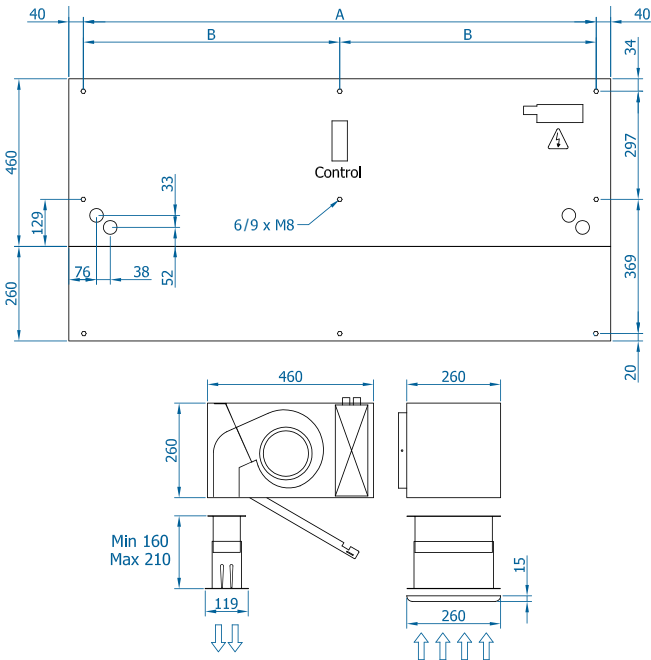
Vertical installation



Inside ceiling surface mounting



False ceiling invisible mounting



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

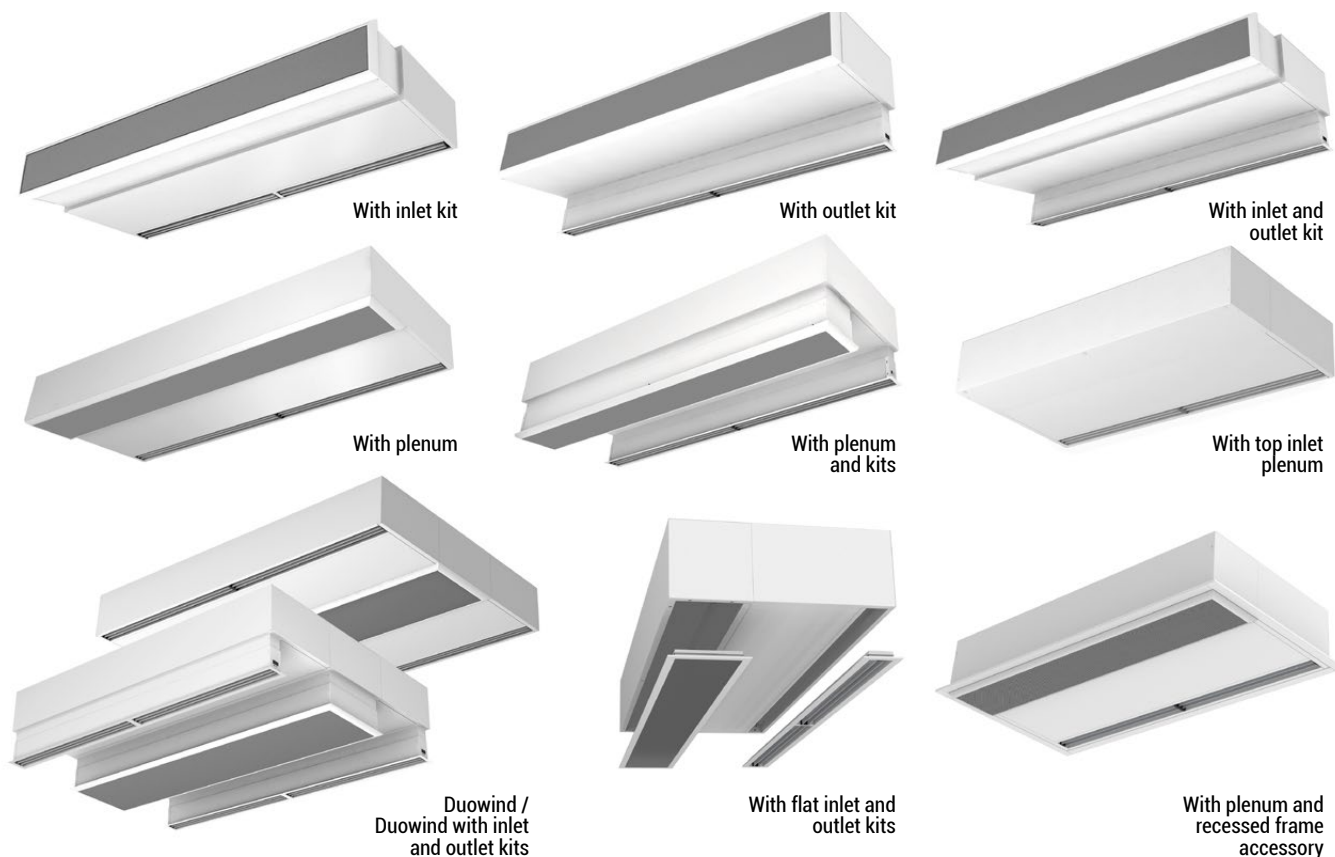
Customizable dimensions on request.

CAD drawings, installation manuals
and other documentation



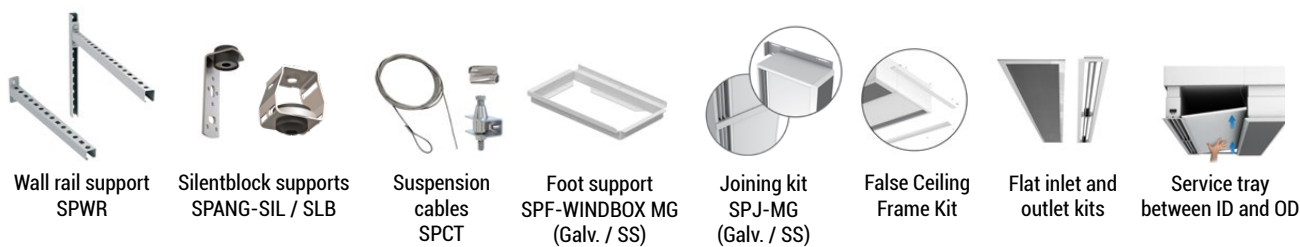


Installation Configurations

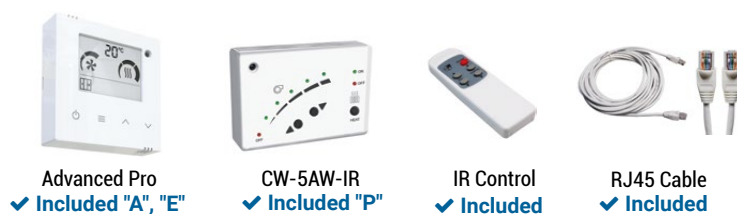


Optional accessories

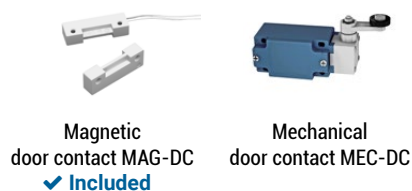
Supports and installation



Control



Sensors





Technical Features



Range
Up to 4.2 m



Airflow / Length
1560 - 6070 m³/h
1 m to 2.5 m



Fans
Centrifugal
5-speed



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



Heating capacity
E : 2 - 30.5 kW
P : 7.13 - 32.25 kW



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

RAL 9016
standard



Other colors
on request



[*] 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 m ³ /h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
RM 1000 A	1620	0.238	1.14	58	15.91	11.69	54	57
RM 1500 A	2430	0.357	1.70	58	15.91	11.69	55	85
RM 2000 A	3240	0.476	2.27	58	15.91	11.69	56	109
RM 2500 A	4050	0.595	2.84	58	15.91	11.69	57	137
RG 1000 A	2145	0.357	1.70	-	-	-	56	61
RG 1500 A	2860	0.476	2.27	-	-	-	57	90
RG 2000 A	4290	0.714	3.41	-	-	-	58	118
RG 2500 A	5005	0.833	3.97	-	-	-	59	145
RECG 1000 A	2445	0.350	2.63	91	15.97	13.97	60	61
RECG 1500 A	3260	0.466	3.50	91	15.97	13.97	61	90
RECG 2000 A	4890	0.699	5.25	91	15.97	13.97	62	118
RECG 2500 A	5705	0.816	6.13	91	15.97	13.97	63	145



❄ UNHEATED 240V-1ph~60Hz

Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
RM 1000 A	1720	0.293	1.20	58	16.45	12.20	55	57
RM 1500 A	2580	0.439	1.80	58	16.45	12.20	56	85
RM 2000 A	3440	0.585	2.40	58	16.45	12.20	57	109
RM 2500 A	4300	0.732	3.00	58	16.45	12.20	58	137
RG 1000 A	2280	0.439	1.80	-	-	-	57	61
RG 1500 A	3040	0.585	2.40	-	-	-	58	90
RG 2000 A	4560	0.878	3.60	-	-	-	59	118
RG 2500 A	5320	1.024	4.20	-	-	-	60	145
RECG 1000 A	2600	0.454	3.00	87	17.14	15.32	61	61
RECG 1500 A	3470	0.573	3.70	91	16.52	14.57	62	90
RECG 2000 A	5200	0.908	6.00	87	17.14	15.32	63	118
RECG 2500 A	6070	1.027	6.70	89	16.77	14.87	64	145

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow m ³ /h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Noise level (5 m) dB(A)	Weight kg
RM 1000 E	1590	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	65
RM 1500 E	2385	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	98
RM 2000 E	3180	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	130
RM 2500 E	3975	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	162
RG 1000 E	2115	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	70
RG 1500 E	2820	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	104
RG 2000 E	4230	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	140
RG 2500 E	4935	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	172
RECG 1000 E	2415	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.319	2.79	60	70
RECG 1500 E	3220	6/9.5/15.5	5.5/10.5/16	5.8/11.7/17.5	5.5/11/16.5	0.425	3.72	61	104
RECG 2000 E	4830	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.638	5.58	62	140
RECG 2500 E	5520	5.5/9/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.744	6.51	63	172

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 m ³ /h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Noise level (5 m) dB(A)	Weight kg
RM 1000 E	1690	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	65
RM 1500 E	2535	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	98
RM 2000 E	3380	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	130
RM 2500 E	4225	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	162
RG 1000 E	2250	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	70
RG 1500 E	3000	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	104
RG 2000 E	4500	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	140
RG 2500 E	5250	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	172
RECG 1000 E	2550	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	70
RECG 1500 E	3400	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	104
RECG 2000 E	5100	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	140
RECG 2500 E	5950	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	172

(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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	208V-1ph ~60Hz	208V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RM 1000 P	1560	7.13	150	7.82	4060	7.76	1130	0.238	1.14	55	63
RM 1500 P	2340	13.71	710	12.51	6000	13.06	4140	0.357	1.70	56	93
RM 2000 P	3120	19.85	1800	16.68	4440	16.97	1900	0.476	2.27	57	122
RM 2500 P	3900	25.88	3550	20.80	3570	22.14	3730	0.595	2.84	58	153
RG 1000 P	2055	8.65	210	9.36	5590	9.44	1600	0.357	1.70	56	67
RG 1500 P	2740	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	98
RG 2000 P	4110	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	131
RG 2500 P	4795	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	163
RECG 1000 P	2355	11.34	1290	10.21	6510	10.37	1900	0.350	2.63	60	67
RECG 1500 P	3140	16.47	990	15.17	8440	16.10	6000	0.466	3.50	61	98
RECG 2000 P	4710	25.61	2830	21.84	7170	22.76	3200	0.699	5.25	62	131
RECG 2500 P	5495	32.04	5180	26.10	5330	28.29	5770	0.816	6.13	63	163

Water heated: connection pipes P86 and P64 are 2x G(BSP) 3/4" female (male if lateral pipes), P54 2x G(BSP) 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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	240V-1ph ~60Hz	240V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RM 1000 P	1660	7.46	160	8.15	4370	8.12	1230	0.293	1.20	56	63
RM 1500 P	2490	14.26	760	13.04	6460	13.66	4490	0.439	1.80	57	93
RM 2000 P	3320	20.65	1930	17.39	4780	17.76	2060	0.585	2.40	58	122
RM 2500 P	4150	26.92	3810	21.69	3840	23.16	4040	0.732	3.00	59	153
RG 1000 P	2190	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	57	67
RG 1500 P	2920	15.76	910	14.48	7770	15.30	5490	0.585	2.40	58	98
RG 2000 P	4380	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	59	131
RG 2500 P	5110	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	60	163
RECG 1000 P	2500	11.74	1370	10.59	6950	10.80	2040	0.454	3.00	61	67
RECG 1500 P	3340	17.09	1050	15.78	9050	16.80	6480	0.573	3.70	62	98
RECG 2000 P	5000	26.54	3020	22.70	7670	23.71	3450	0.908	6.00	63	131
RECG 2500 P	5840	32.25	5530	27.14	5720	29.51	6220	1.027	6.70	64	163

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

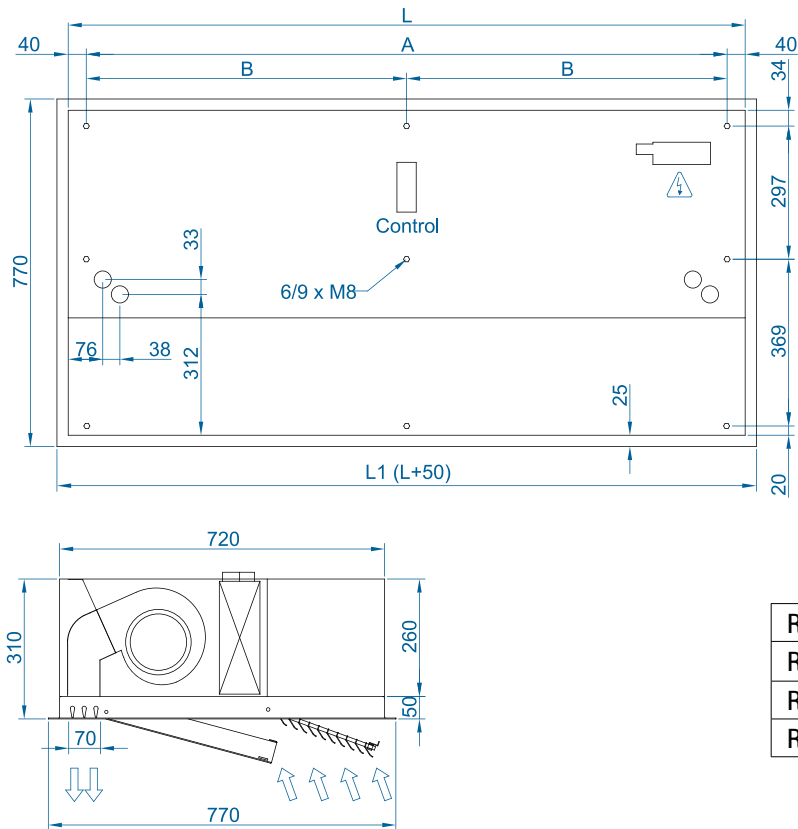
⁽³⁾ Air curtain with CSA components, but without being certified.



Selection program



Dimensions



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

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



Range
Up to 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
1560 - 6940 m³/h
1 m to 3 m



Heating capacity
E : 2 - 30.5 kW
P : 7.13 - 39.9 kW



Grille type
Micro-perforated
with prefilter function



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

RAL 9016
standard



Other colors
on request



Stainless
steel



[*] 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 m ³ /h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
DAM M 1000 A	1620	0.238	1.14	58	15.91	11.69	54	38
DAM M 1500 A	2430	0.357	1.70	58	15.91	11.69	55	56
DAM M 2000 A	3240	0.476	2.27	58	15.91	11.69	56	70
DAM M 2500 A	4050	0.595	2.84	58	15.91	11.69	57	76
DAM M 3000 A	4860	0.714	3.41	58	15.91	11.69	58	88
DAM G 1000 A	2145	0.357	1.70	-	-	-	56	42
DAM G 1500 A	2860	0.476	2.27	-	-	-	57	61
DAM G 2000 A	4290	0.714	3.41	-	-	-	58	80
DAM G 2500 A	5005	0.833	3.97	-	-	-	59	86
DAM G 3000 A	5720	0.952	4.54	-	-	-	60	98
DAM ECG 1000 A	2445	0.350	2.63	91	15.97	13.97	60	42
DAM ECG 1500 A	3260	0.466	3.50	91	15.97	13.97	61	61
DAM ECG 2000 A	4890	0.699	5.25	91	15.97	13.97	62	80
DAM ECG 2500 A	5705	0.816	6.13	91	15.97	13.97	63	86
DAM ECG 3000 A	6520	0.932	7.00	91	15.97	13.97	64	98



✱ UNHEATED 240V-1ph~60Hz

Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
DAM M 1000 A	1720	0.293	1.20	58	16.45	12.20	55	38
DAM M 1500 A	2580	0.439	1.80	58	16.45	12.20	56	56
DAM M 2000 A	3440	0.585	2.40	58	16.45	12.20	57	70
DAM M 2500 A	4300	0.732	3.00	58	16.45	12.20	58	76
DAM M 3000 A	5160	0.878	3.60	58	16.45	12.20	59	88
DAM G 1000 A	2280	0.439	1.80	-	-	-	57	42
DAM G 1500 A	3040	0.585	2.40	-	-	-	58	61
DAM G 2000 A	4560	0.878	3.60	-	-	-	59	80
DAM G 2500 A	5320	1.024	4.20	-	-	-	60	86
DAM G 3000 A	6080	1.171	4.80	-	-	-	61	98
DAM ECG 1000 A	2600	0.454	3.00	87	17.14	15.32	61	42
DAM ECG 1500 A	3470	0.573	3.70	91	16.52	14.57	62	61
DAM ECG 2000 A	5200	0.908	6.00	87	17.14	15.32	63	80
DAM ECG 2500 A	6070	1.027	6.70	89	16.77	14.87	64	86
DAM ECG 3000 A	6940	1.146	7.40	91	16.52	14.57	65	98

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow m ³ /h	Electrical heating capacity ⁽²⁾ 208V-3ph~60Hz kW	Electrical heating capacity ⁽²⁾ 460V-3ph~60Hz kW	Electrical heating capacity ⁽²⁾ 480V-3ph~60Hz kW	Electrical heating capacity ⁽²⁾ 575V-3ph~60Hz kW	Ventilation power 208V-1ph ~60Hz kW	Ventilation current 208V-1ph ~60Hz A	Noise level (5 m) dB(A)	Weight kg
DAM M 1000 E	1590	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	45
DAM M 1500 E	2385	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	68
DAM M 2000 E	3180	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	88
DAM M 2500 E	3975	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	96
DAM M 3000 E	4770	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	58	111
DAM G 1000 E	2115	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	50
DAM G 1500 E	2820	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	74
DAM G 2000 E	4230	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	98
DAM G 2500 E	4935	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	106
DAM G 3000 E	5640	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	121
DAM ECG 1000 E	2415	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	50
DAM ECG 1500 E	3220	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	74
DAM ECG 2000 E	4830	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	98
DAM ECG 2500 E	5635	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	106
DAM ECG 3000 E	6440	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	121

⁽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) 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 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
DAM M 1000 E	1690	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	45
DAM M 1500 E	2535	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	68
DAM M 2000 E	3380	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	88
DAM M 2500 E	4225	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	96
DAM M 3000 E	5070	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	111
DAM G 1000 E	2250	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	50
DAM G 1500 E	3000	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	74
DAM G 2000 E	4500	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	98
DAM G 2500 E	5250	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	106
DAM G 3000 E	6000	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	121
DAM ECG 1000 E	2550	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	50
DAM ECG 1500 E	3400	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	74
DAM ECG 2000 E	5100	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	98
DAM ECG 2500 E	5950	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	106
DAM ECG 3000 E	6800	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	121

(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	208V-1ph ~60Hz	208V-1ph ~60Hz	dB(A)	kg
	m³/h	kW	Pa	kW	Pa	kW	Pa	kW	A		
DAM M 1000 P	1560	7.13	150	7.82	4060	7.76	1130	0.238	1.14	55	43
DAM M 1500 P	2340	13.71	710	12.51	6000	13.06	4140	0.357	1.70	56	64
DAM M 2000 P	3120	19.85	1800	16.68	4440	16.97	1900	0.476	2.27	57	81
DAM M 2500 P	3900	25.88	3550	20.80	3570	22.14	3730	0.595	2.84	58	89
DAM M 3000 P	4680	31.94	6140	25.91	6280	27.10	5230	0.714	3.41	59	103
DAM G 1000 P	2055	8.65	210	9.36	5590	9.44	1600	0.357	1.70	56	48
DAM G 1500 P	2740	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	70
DAM G 2000 P	4110	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	91
DAM G 2500 P	4795	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	97
DAM G 3000 P	5480	35.30	7330	28.79	7570	30.38	6400	0.952	4.54	60	111
DAM ECG 1000 P	2355	11.34	1290	10.21	6510	10.37	1900	0.350	2.63	60	48
DAM ECG 1500 P	3140	16.47	990	15.17	8440	16.10	6000	0.466	3.50	61	70
DAM ECG 2000 P	4710	25.61	2830	21.84	7170	22.76	3200	0.699	5.25	62	91
DAM ECG 2500 P	5495	32.04	5180	26.10	5330	28.29	5770	0.816	6.13	63	97
DAM ECG 3000 P	6280	38.42	8520	31.49	8860	33.47	7600	0.932	7.00	64	111

Water heated: connection pipes P86 and P64 are 2x G(BSP) 3/4" female (male if lateral pipes), P54 2x G(BSP) 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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	240V-1ph ~60Hz	240V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
DAM M 1000P	1660	7.46	160	8.15	4370	8.12	1230	0.293	1.20	56	43
DAM M 1500P	2490	14.26	760	13.04	6460	13.66	4490	0.439	1.80	57	64
DAM M 2000P	3320	20.65	1930	17.39	4780	17.76	2060	0.585	2.40	58	81
DAM M 2500P	4150	26.92	3810	21.69	3840	23.16	4040	0.732	3.00	59	89
DAM M 3000P	4980	33.23	6590	27.01	6760	28.35	5660	0.878	3.60	60	103
DAM G 1000P	2190	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	57	48
DAM G 1500P	2920	15.76	910	14.48	7770	15.30	5490	0.585	2.40	58	70
DAM G 2000P	4380	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	59	91
DAM G 2500P	5110	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	60	97
DAM G 3000P	5840	36.73	7870	30.03	8150	31.79	6940	1.171	4.80	61	111
DAM ECG 1000 P	2500	11.74	1370	10.59	6950	10.80	2040	0.454	3.00	61	48
DAM ECG 1500 P	3340	17.09	1050	15.78	9050	16.80	6480	0.573	3.70	62	70
DAM ECG 2000 P	5000	26.54	3020	22.70	7670	23.71	3450	0.908	6.00	63	91
DAM ECG 2500 P	5840	32.25	5530	27.14	5720	29.51	6220	1.027	6.70	64	97
DAM ECG 3000 P	6680	39.90	9110	32.77	9510	34.96	8210	1.146	7.40	65	111

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.

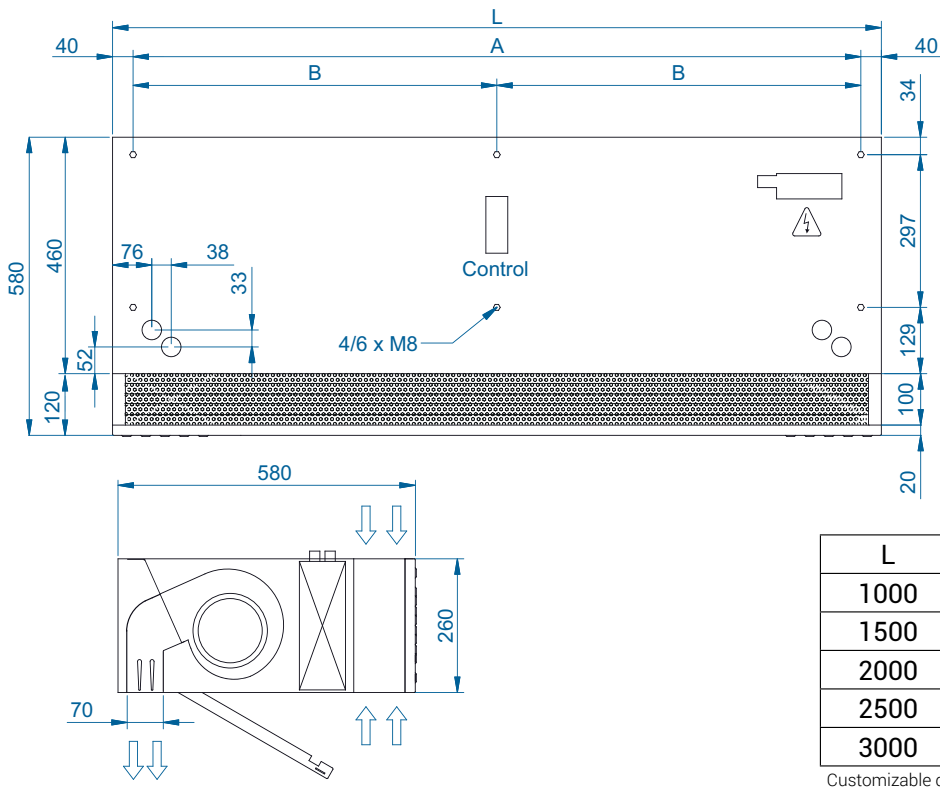


Selection program

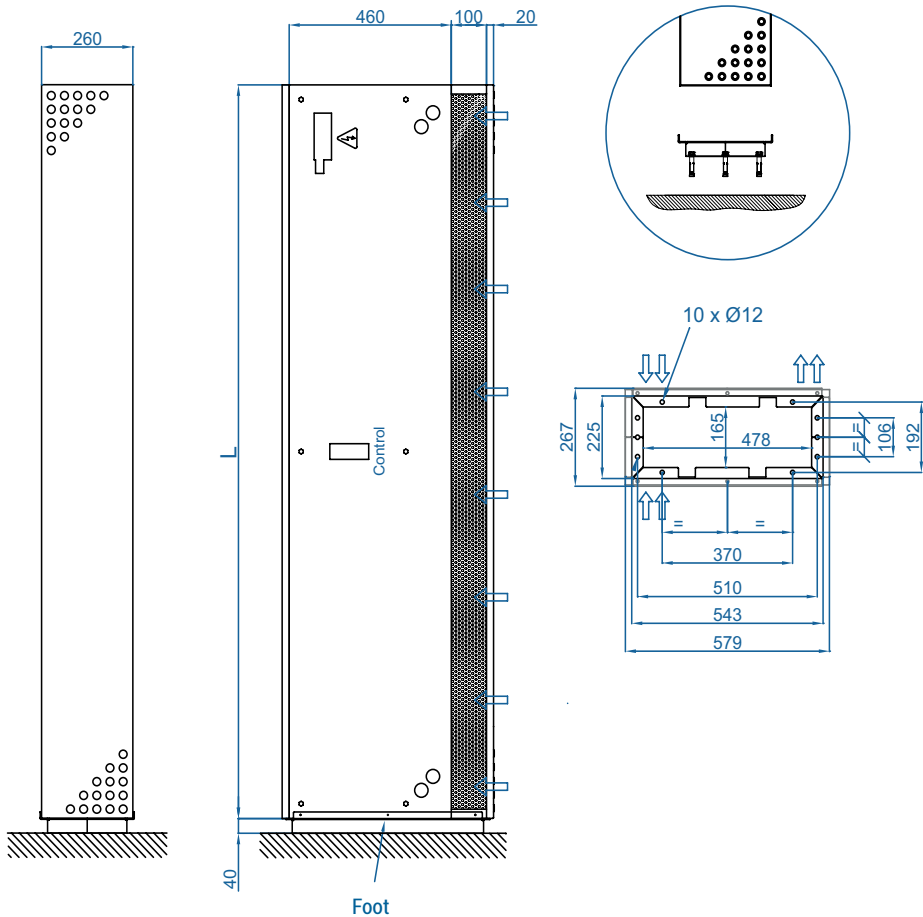


Dimensions

Horizontal installation



Vertical installation



CAD drawings, installation manuals
and other documentation

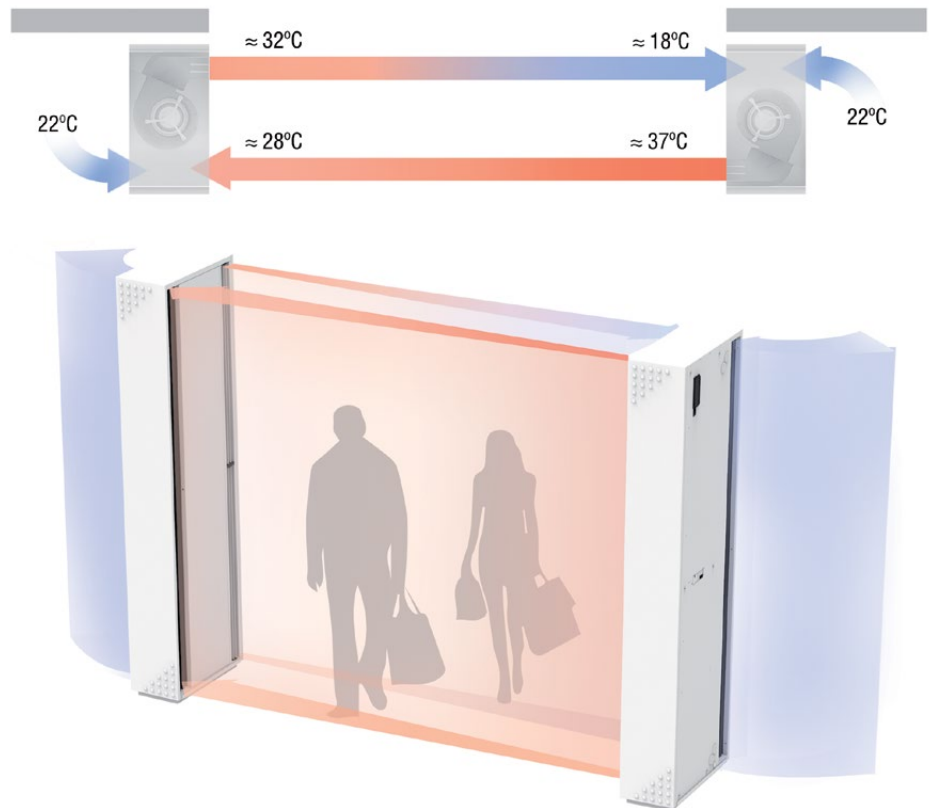


Dam Twin application

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



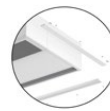
Suspension
cables
SPCT



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 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
1560 - 6070 m3/h
1 m to 2.5 m



Heating capacity
E : 2 - 30.5 kW
P : 7.13 - 32.04 kW



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



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

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 m3/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
RDAM M 1000 A	1620	0.238	1.14	58	15.91	11.69	54	45
RDAM M 1500 A	2430	0.357	1.70	58	15.91	11.69	55	66
RDAM M 2000 A	3240	0.476	2.27	58	15.91	11.69	56	84
RDAM M 2500 A	4050	0.595	2.84	58	15.91	11.69	57	93
RDAM G 1000 A	2145	0.357	1.70	-	-	-	56	49
RDAM G 1500 A	2860	0.476	2.27	-	-	-	57	71
RDAM G 2000 A	4290	0.714	3.41	-	-	-	58	94
RDAM G 2500 A	5005	0.833	3.97	-	-	-	59	103
RDAM ECG 1000 A	2445	0.350	2.63	91	15.97	13.97	60	49
RDAM ECG 1500 A	3260	0.466	3.50	91	15.97	13.97	61	71
RDAM ECG 2000 A	4890	0.699	5.25	91	15.97	13.97	62	94
RDAM ECG 2500 A	5705	0.816	6.13	91	15.97	13.97	63	103



❄️ 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
	m3/h	kW	A	%	m/s	m/s	dB(A)	kg
RDAM M 1000 A	1720	0.293	1.20	58	16.45	12.20	55	45
RDAM M 1500 A	2580	0.439	1.80	58	16.45	12.20	56	66
RDAM M 2000 A	3440	0.585	2.40	58	16.45	12.20	57	84
RDAM M 2500 A	4300	0.732	3.00	58	16.45	12.20	58	93
RDAM G 1000 A	2280	0.439	1.80	-	-	-	57	49
RDAM G 1500 A	3040	0.585	2.40	-	-	-	58	71
RDAM G 2000 A	4560	0.878	3.60	-	-	-	59	94
RDAM G 2500 A	5320	1.024	4.20	-	-	-	60	103
RDAM ECG 1000 A	2600	0.454	3.00	87	17.14	15.32	61	49
RDAM ECG 1500 A	3470	0.573	3.70	91	16.52	14.57	62	71
RDAM ECG 2000 A	5200	0.908	6.00	87	17.14	15.32	63	94
RDAM ECG 2500 A	6070	1.027	6.70	89	16.77	14.87	64	103

⚡ 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
	m3/h	kW	kW	kW	kW	kW	A	dB(A)	kg
RDAM M 1000 E	1590	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	54	52
RDAM M 1500 E	2385	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	55	78
RDAM M 2000 E	3180	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	56	102
RDAM M 2500 E	3975	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	57	113
RDAM G 1000 E	2115	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	57
RDAM G 1500 E	2820	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	84
RDAM G 2000 E	4230	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	112
RDAM G 2500 E	4935	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	123
RDAM ECG 1000 E	2415	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	60	57
RDAM ECG 1500 E	3220	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	84
RDAM ECG 2000 E	4830	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	62	112
RDAM ECG 2500 E	5635	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	123

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) 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 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	m3/h	kW	kW	kW	kW	kW	A	dB(A)	kg
RDAM M 1000 E	1690	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	52
RDAM M 1500 E	2535	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	78
RDAM M 2000 E	3380	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	57	102
RDAM M 2500 E	4225	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	58	113
RDAM G 1000 E	2250	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	57
RDAM G 1500 E	3000	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	84
RDAM G 2000 E	4500	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	112
RDAM G 2500 E	5250	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	123
RDAM ECG 1000 E	2550	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	61	57
RDAM ECG 1500 E	3400	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	84
RDAM ECG 2000 E	5100	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	63	112
RDAM ECG 2500 E	5950	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	123

(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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	208V-1ph ~60Hz	208V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RDAM M 1000 P	1560	7.13	150	7.82	4060	7.76	1130	0.238	1.14	55	50
RDAM M 1500 P	2340	13.71	710	12.51	6000	13.06	4140	0.357	1.70	56	74
RDAM M 2000 P	3120	19.85	1800	16.68	4440	16.97	1900	0.476	2.27	57	95
RDAM M 2500 P	3900	25.88	3550	20.80	3570	22.14	3730	0.595	2.84	58	106
RDAM G 1000 P	2055	8.65	210	9.36	5590	9.44	1600	0.357	1.70	56	55
RDAM G 1500 P	2740	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	80
RDAM G 2000 P	4110	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	105
RDAM G 2500 P	4795	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	114
RDAM ECG 1000 P	2355	11.34	1290	10.21	6510	10.37	1900	0.350	2.63	60	55
RDAM ECG 1500 P	3140	16.47	990	15.17	8440	16.10	6000	0.466	3.50	61	80
RDAM ECG 2000 P	4710	25.61	2830	21.84	7170	22.76	3200	0.699	5.25	62	105
RDAM ECG 2500 P	5495	32.04	5180	26.10	5330	28.29	5770	0.816	6.13	63	114

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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	240V-1ph ~60Hz	240V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RDAM M 1000 P	1660	7.46	160	8.15	4370	8.12	1230	0.293	1.20	56	50
RDAM M 1500 P	2490	14.26	760	13.04	6460	13.66	4490	0.439	1.80	57	74
RDAM M 2000 P	3320	20.65	1930	17.39	4780	17.76	2060	0.585	2.40	58	95
RDAM M 2500 P	4150	26.92	3810	21.69	3840	23.16	4040	0.732	3.00	59	106
RDAM G 1000 P	2190	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	56	55
RDAM G 1500 P	2920	15.76	910	14.48	7770	15.30	5490	0.585	2.40	57	80
RDAM G 2000 P	4380	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	58	105
RDAM G 2500 P	5110	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	59	114
RDAM ECG 1000 P	2500	11.74	1370	10.59	6950	10.80	2040	0.454	3.00	61	55
RDAM ECG 1500 P	3340	17.09	1050	15.78	9050	16.80	6480	0.573	3.70	62	80
RDAM ECG 2000 P	5000	26.54	3020	22.70	7670	23.71	3450	0.908	6.00	63	105
RDAM ECG 2500 P	5840	32.25	5530	27.14	5720	29.51	6220	1.027	6.70	64	114

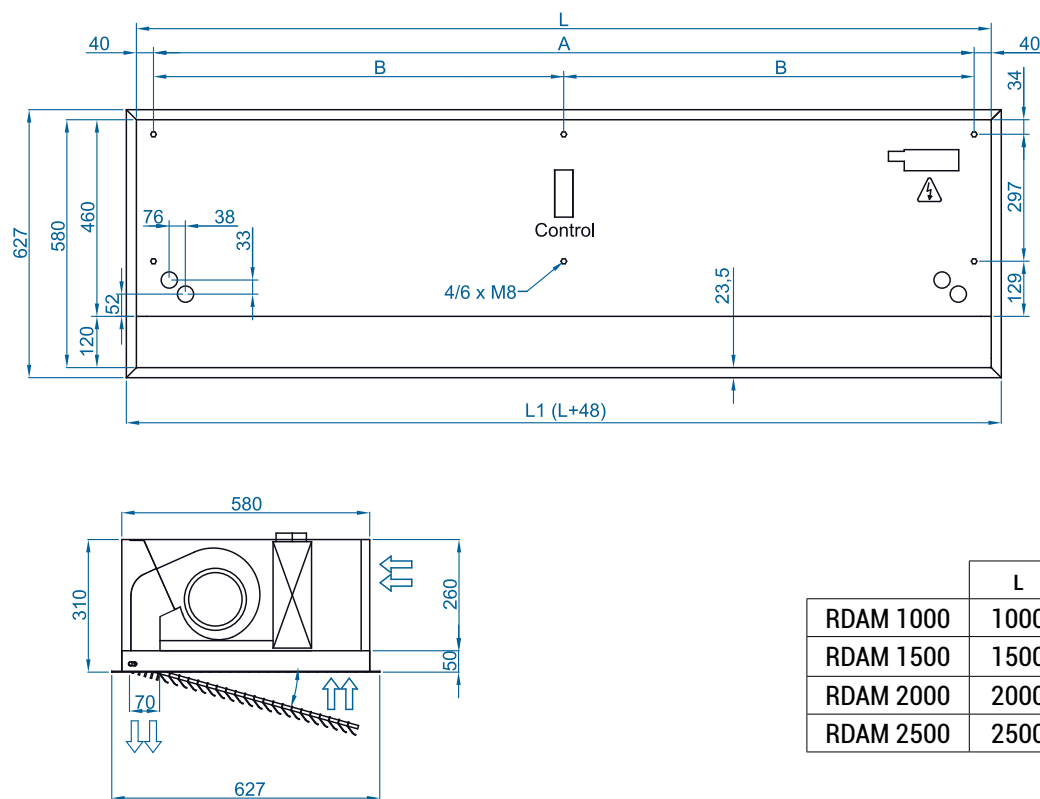
Water heated: connection pipes P86 and P64 are 2x G(BSPP) 3/4" female (male if lateral pipes), P54 2x G(BSPP) 1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

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



Selection program

Dimensions



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

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



Range
Up to 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
2700 - 5930 m³/h
1.5 m to 2.5 m



Heating capacity
E : 3.5 - 30.5 kW
P : 13.08 - 33.64 kW



Grille type
Micro-perforated
with prefilter function



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

RAL 9016
standard



Other colors
on request



Stainless
steel



[*] Customizable dimensions on request

INVISAIR air curtain is designed to be installed invisibly in false ceilings and columns or drawers around the door. It is an ideal solution for those entrances that for architectural reasons require an air curtain installation that is fully integrated into the interior design of the building. Casing painted in RAL 9016. Other colors are available on request.

It can be vertically or horizontally mounted. The air flow of Invisair follows a straight line from the air inlet grille to the to the discharge. Inlet area inside a bulkhead or column should be designed with suitable grille provided by others.

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

"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 m ³ /h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
IG 1500 A	2800	0.476	2.27	-	-	-	57	60
IG 2000 A	4200	0.714	3.41	-	-	-	58	78
IG 2500 A	4900	0.833	3.97	-	-	-	59	83
IECG 1500 A	3195	0.494	3.78	-	-	-	61	60
IECG 2000 A	4760	0.748	5.68	-	-	-	62	78
IECG 2500 A	5575	0.868	6.62	-	-	-	63	83



✿ UNHEATED 240V-1ph~60Hz

Model	Airflow m³/h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
IG 1500 A	2980	0.585	2.40	-	-	-	58	73
IG 2000 A	4470	0.878	3.60	-	-	-	59	96
IG 2500 A	5215	1.024	4.20	-	-	-	60	103
IECG 1500 A	3400	0.607	4.00	-	-	-	62	73
IECG 2000 A	5060	0.920	6.00	-	-	-	63	96
IECG 2500 A	5930	1.067	7.00	-	-	-	64	103

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow m³/h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 208V-1ph ~60Hz kW	Ventilation current 208V-1ph ~60Hz A	Noise level (5 m) dB(A)	Weight kg
IG 1500 E	2760	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	73
IG 2000 E	4140	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	96
IG 2500 E	4830	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	103
IECG 1500 E	3140	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	73
IECG 2000 E	4680	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.676	62	96
IECG 2500 E	5480	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	103

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 m³/h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 240V-1ph ~60Hz kW	Ventilation current 240V-1ph ~60Hz A	Noise level (5 m) dB(A)	Weight kg
IG 1500 E	2940	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	73
IG 2000 E	4410	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	96
IG 2500 E	5145	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	103
IECG 1500 E	3340	6/9.5/15.5	5.3/10.7/16	5.8/11.7/17.5	5.5/11/16.5	0.508	3.92	62	73
IECG 2000 E	4980	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.762	5.88	63	96
IECG 2500 E	5830	5.5/9/14.5	9.3/18.7/28	10..2/20.3/30.5	9.5/19/28.5	0.889	6.86	64	103

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



WATER HEATED 208V-1ph~60Hz ⁽³⁾

Model	Airflow m3/h	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 kg
		Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	kW	A	dB(A)	
IG 1500 P	2700	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	69
IG 2000 P	4050	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	89
IG 2500 P	4725	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	94
IECG 1500 P	3080	16.47	990	15.17	8440	16.10	6000	0.494	3.78	61	69
IECG 2000 P	4580	25.61	2830	21.84	7170	22.76	3200	0.748	5.68	62	89
IECG 2500 P	5370	32.04	5180	26.10	5330	28.29	5770	0.868	6.62	63	94

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 m3/h	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 kg
		Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	kW	A	dB(A)	
IG 1500 P	2860	15.76	910	14.48	7770	15.30	5490	0.585	2.40	58	69
IG 2000 P	4290	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	59	89
IG 2500 P	5005	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	60	94
IECG 1500 P	3280	17.09	1050	15.78	9050	16.80	6480	0.607	4.00	62	69
IECG 2000 P	4880	26.54	3020	22.70	7670	23.71	3450	0.920	6.00	63	89
IECG 2500 P	5720	32.25	5530	27.14	5720	29.51	6220	1.067	7.00	64	94

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.

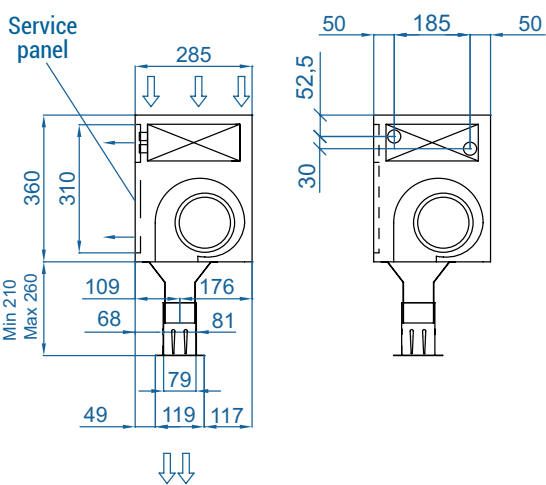
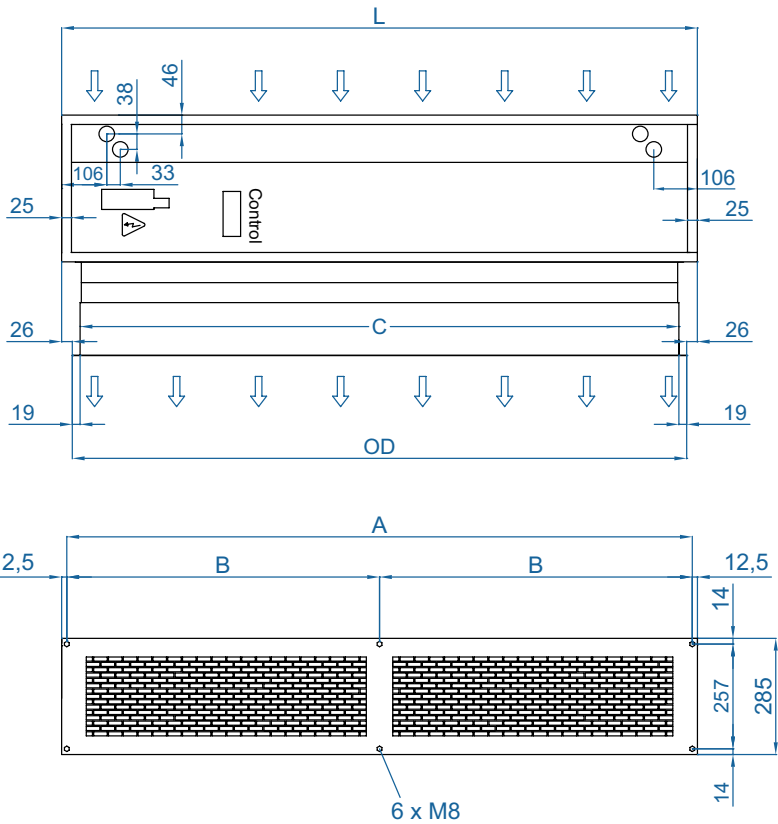


Selection program



Dimensions

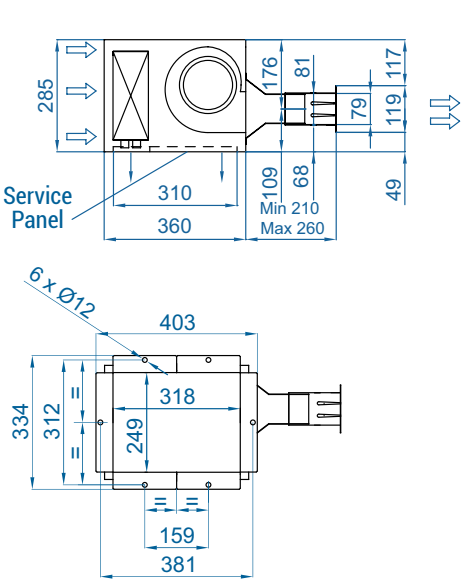
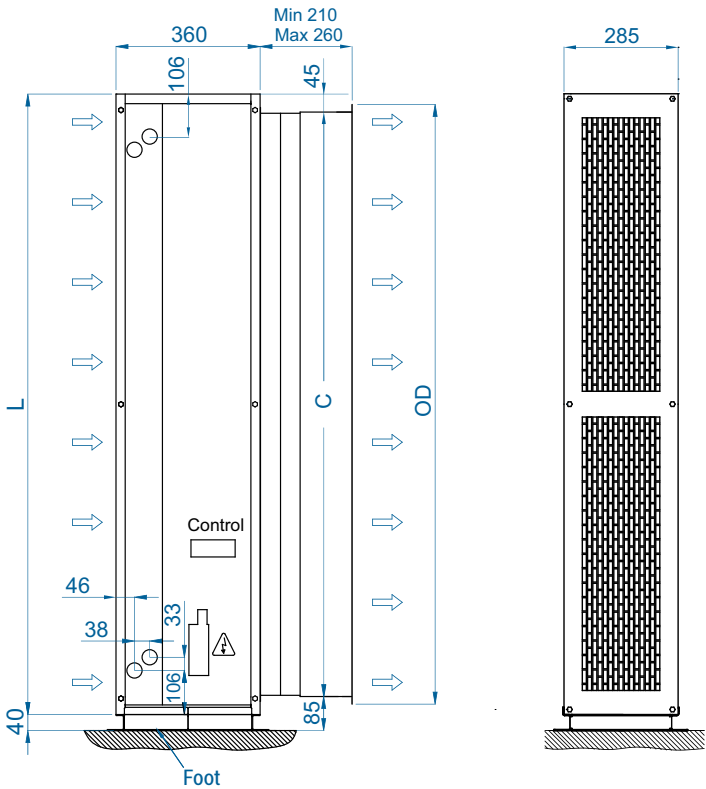
Horizontal installation



Model	L	A	B	C	OD
1500	1550	1525	762.5	1461	1498
2000	2055	2030	1015	1961	1998
2500	2555	2530	1265	2461	2498

Customizable dimensions on request

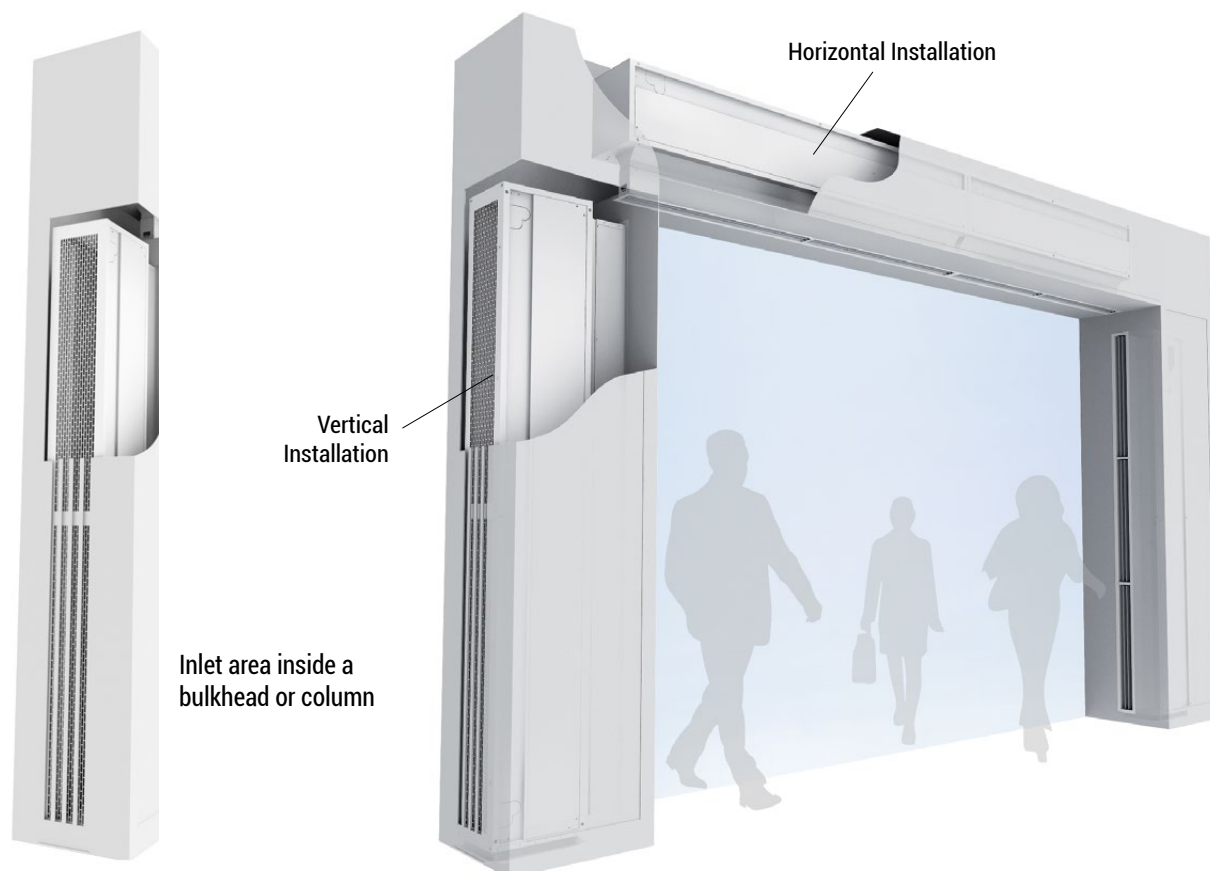
Vertical installation



CAD drawings, installation manuals
and other documentation



Installation configurations



Optional accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT



Wall angle support
Invisair MG



Flat inlet grille



Foot support
SPF-INVISAIR
(Galv.)



Joining kit
SPJ-INVISAIR
(Galv.)

Control



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 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
1560 - 6940 m3/h
1 m to 3 m



Heating capacity
E : 2 - 30.5 kW
P : 7.13 - 39.9 kW



Grille type
Micro-perforated
with prefilter function



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 m3/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
SMART M 1000 A	1620	0.238	1.14	58	15.91	11.69	52	34
SMART M 1500 A	2430	0.357	1.70	58	15.91	11.69	53	50
SMART M 2000 A	3240	0.476	2.27	58	15.91	11.69	54	62
SMART M 2500 A	4050	0.595	2.84	58	15.91	11.69	55	66
SMART M 3000 A	4860	0.714	3.41	58	15.91	11.69	56	76
SMART G 1000 A	2145	0.357	1.70	-	-	-	54	38
SMART G 1500 A	2860	0.476	2.27	-	-	-	55	55
SMART G 2000 A	4290	0.714	3.41	-	-	-	56	72
SMART G 2500 A	5005	0.833	3.97	-	-	-	57	76
SMART G 3000 A	5720	0.952	4.54	-	-	-	58	86
SMART ECG 1000 A	2445	0.350	2.63	91	15.97	13.97	58	38
SMART ECG 1500 A	3260	0.466	3.50	91	15.97	13.97	59	55
SMART ECG 2000 A	4890	0.699	5.25	91	15.97	13.97	60	72
SMART ECG 2500 A	5705	0.816	6.13	91	15.97	13.97	61	76
SMART ECG 3000 A	6520	0.932	7.00	91	15.97	13.97	62	86



✿ UNHEATED 240V-1ph~60Hz

Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
SMART M 1000 A	1720	0.293	1.20	58	16.45	12.20	53	34
SMART M 1500 A	2580	0.439	1.80	58	16.45	12.20	54	50
SMART M 2000 A	3440	0.585	2.40	58	16.45	12.20	55	62
SMART M 2500 A	4300	0.732	3.00	58	16.45	12.20	56	66
SMART M 3000 A	5160	0.878	3.60	58	16.45	12.20	57	76
SMART G 1000 A	2280	0.439	1.80	-	-	-	55	38
SMART G 1500 A	3040	0.585	2.40	-	-	-	56	55
SMART G 2000 A	4560	0.878	3.60	-	-	-	57	72
SMART G 2500 A	5320	1.024	4.20	-	-	-	58	76
SMART G 3000 A	6080	1.171	4.80	-	-	-	59	86
SMART ECG 1000 A	2600	0.454	3.00	87	17.14	15.32	59	38
SMART ECG 1500 A	3470	0.573	3.70	91	16.52	14.57	60	55
SMART ECG 2000 A	5200	0.908	6.00	87	17.14	15.32	61	72
SMART ECG 2500 A	6070	1.027	6.70	89	16.77	14.87	62	76
SMART ECG 3000 A	6940	1.146	7.40	91	16.52	14.57	63	86

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow m ³ /h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 208V-1ph ~60Hz kW	Ventilation current 208V-1ph ~60Hz A	Noise level (5 m) dB(A)	Weight kg
SMART M 1000 E	1590	2/4/6	2/4.5/6.5	2.5/5/7.5	3.5/3.5/7	0.238	1.14	52	41
SMART M 1500 E	2385	3/6/9	3/6.5/9.5	3.5/7/10.5	5/5/10	0.357	1.70	53	62
SMART M 2000 E	3180	4/8/12	4/8.5/12.5	4.5/9/13.5	6.5/6.5/13	0.476	2.27	54	80
SMART M 2500 E	3975	5/8/13	5/10/15	5.5/11/16.5	8/8/16	0.595	2.84	55	86
SMART M 3000 E	4770	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.714	3.41	56	99
SMART G 1000 E	2115	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	46
SMART G 1500 E	2820	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	68
SMART G 2000 E	4230	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	56	90
SMART G 2500 E	4935	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	57	96
SMART G 3000 E	5640	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	58	109
SMART ECG 1000 E	2415	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.350	2.63	58	46
SMART ECG 1500 E	3220	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	68
SMART ECG 2000 E	4830	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.699	5.25	60	90
SMART ECG 2500 E	5635	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	96
SMART ECG 3000 E	6440	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	109

(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) 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 240V-1ph ~60Hz	Ventilation current 240V-1ph ~60Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
SMART M 1000 E	1690	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	41
SMART M 1500 E	2535	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	62
SMART M 2000 E	3380	4/8/12	6.5/13/19.5	7/14/21	6.5/13/19.5	0.585	2.40	55	80
SMART M 2500 E	4225	5/8/13	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.732	3.00	56	86
SMART M 3000 E	5070	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	99
SMART G 1000 E	2250	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	55	46
SMART G 1500 E	3000	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	68
SMART G 2000 E	4500	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	57	90
SMART G 2500 E	5250	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	96
SMART G 3000 E	6000	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	109
SMART ECG 1000 E	2550	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.454	3.00	59	46
SMART ECG 1500 E	3400	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	68
SMART ECG 2000 E	5100	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.908	6.00	61	90
SMART ECG 2500 E	5950	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	96
SMART ECG 3000 E	6800	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	109

(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	kW	A	dB(A)	kg
	m³/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
SMART M 1000 P	1560	7.13	150	7.82	4060	7.76	1130	0.238	1.14	53	39
SMART M 1500 P	2340	13.71	710	12.51	6000	13.06	4140	0.357	1.70	54	58
SMART M 2000 P	3120	19.85	1800	16.68	4440	16.97	1900	0.476	2.27	55	73
SMART M 2500 P	3900	25.88	3550	20.80	3570	22.14	3730	0.595	2.84	56	79
SMART M 3000 P	4680	31.94	6140	25.91	6280	27.10	5230	0.714	3.41	57	91
SMART G 1000 P	2055	8.65	210	9.36	5590	9.44	1600	0.357	1.70	54	44
SMART G 1500 P	2740	15.15	850	13.89	7220	14.63	5060	0.476	2.27	55	64
SMART G 2000 P	4110	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	56	83
SMART G 2500 P	4795	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	57	87
SMART G 3000 P	5480	35.30	7330	28.79	7570	30.38	6400	0.952	4.54	58	99
SMART ECG 1000 P	2355	11.34	1290	10.21	6510	10.37	1900	0.350	2.63	58	44
SMART ECG 1500 P	3140	16.47	990	15.17	8440	16.10	6000	0.466	3.50	59	64
SMART ECG 2000 P	4710	25.61	2830	21.84	7170	22.76	3200	0.699	5.25	60	83
SMART ECG 2500 P	5495	32.04	5180	26.10	5330	28.29	5770	0.816	6.13	61	87
SMART ECG 3000 P	6280	38.42	8520	31.49	8860	33.47	7600	0.932	7.00	62	99

Water heated: connection pipes P86 and P64 are 2x G(BSP) 3/4" female (male if lateral pipes), P54 2x G(BSP) 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 m ³ /h	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 kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	Water heating capacity kW	Water pressure drop Pa	kW	A	dB(A)	kg
SMART M 1000 P	1660	7.46	160	8.15	4370	8.12	1230	0.293	1.20	54	39
SMART M 1500 P	2490	14.26	760	13.04	6460	13.66	4490	0.439	1.80	55	58
SMART M 2000 P	3320	20.65	1930	17.39	4780	17.76	2060	0.585	2.40	56	73
SMART M 2500 P	4150	26.92	3810	21.69	3840	23.16	4040	0.732	3.00	57	79
SMART M 3000 P	4980	33.23	6590	27.01	6760	28.35	5660	0.878	3.60	58	91
SMART G 1000 P	2190	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	55	44
SMART G 1500 P	2920	15.76	910	14.48	7770	15.30	5490	0.585	2.40	56	64
SMART G 2000 P	4380	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	57	83
SMART G 2500 P	5110	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	58	87
SMART G 3000 P	5840	36.73	7870	30.03	8150	31.79	6940	1.171	4.80	59	99
SMART ECG 1000 P	2500	11.74	1370	10.59	6950	10.80	2040	0.454	3.00	59	44
SMART ECG 1500 P	3340	17.09	1050	15.78	9050	16.80	6480	0.573	3.70	60	64
SMART ECG 2000 P	5000	26.54	3020	22.70	7670	23.71	3450	0.908	6.00	61	83
SMART ECG 2500 P	5840	32.25	5530	27.14	5720	29.51	6220	1.027	6.70	62	87
SMART ECG 3000 P	6680	39.90	9110	32.77	9510	34.96	8210	1.146	7.40	63	99

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.

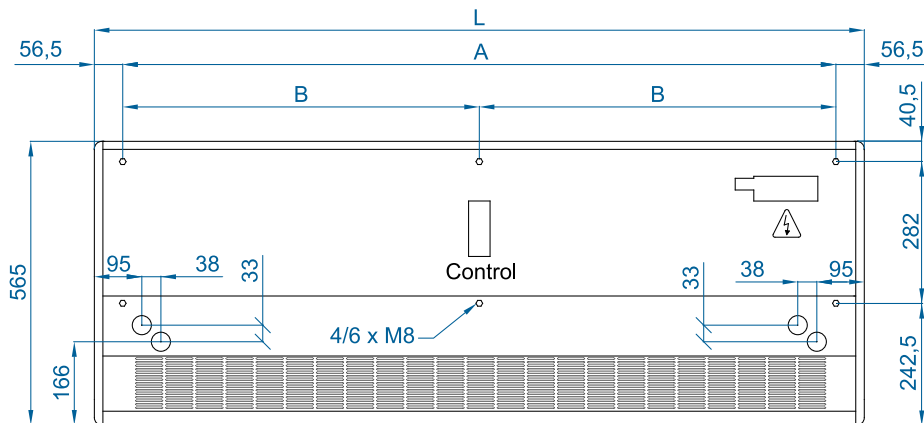
⁽³⁾ Air curtain with CSA components, but without being certified.



Selection program

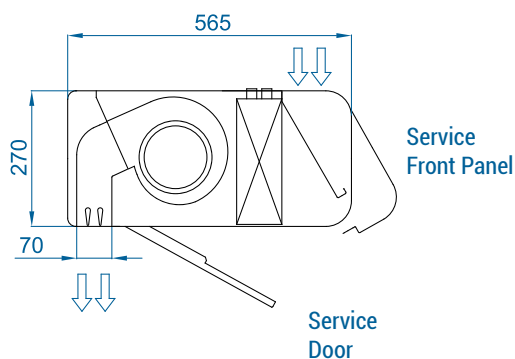


Dimensions



	L	A	B
SMART 1000	1034	920	-
SMART 1500	1534	1420	710
SMART 2000	2034	1920	960
SMART 2500	2534	2420	1210
SMART 3000	3034	2920	1460

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 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
2025 - 5930 m³/h
1 m to 2.5 m



Heating capacity
E : 2.5 - 30.5 kW
P : 8.86 - 33.63 kW



Grille type
Micro-perforated
with prefilter function



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

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 (mm)	1000	2000	3000	4000
Core Velocity (m/s)	6.05	4.65	3.87	3.39
Uniformity (%)	88	92	98	97



0	Core Velocity	Uniformity
1000	6.05m/s	88%
2000	4.65m/s	92%
3000	3.87m/s	98%
4000	3.39m/s	97%

CSA Certified:





✿ UNHEATED 208V-1ph~60Hz

Model	Airflow m³/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
ZEN G 1000 A	2100	0.357	1.70	-	-	-	56	36
ZEN G 1500 A	2800	0.476	2.27	-	-	-	57	50
ZEN G 2000 A	4200	0.714	3.41	-	-	-	58	69
ZEN G 2500 A	4900	0.833	3.97	-	-	-	59	83
ZEN ECG 1000 A	2380	0.374	2.84	-	-	-	60	36
ZEN ECG 1500 A	3195	0.494	3.78	-	-	-	61	50
ZEN ECG 2000 A	4760	0.748	5.68	-	-	-	62	69
ZEN ECG 2500 A	5575	0.868	6.62	-	-	-	63	83

✿ UNHEATED 240V-1ph~60Hz

Model	Airflow m³/h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
ZEN G 1000 A	2235	0.439	1.80	-	-	-	57	36
ZEN G 1500 A	2980	0.585	2.40	-	-	-	58	50
ZEN G 2000 A	4470	0.878	3.60	-	-	-	59	69
ZEN G 2500 A	5215	1.024	4.20	-	-	-	60	83
ZEN ECG 1000 A (¹)	2530	0.460	3.00	80	17.99	14.03	61	36
ZEN ECG 1500 A (¹)	3400	0.607	4.00	72	17.55	13.86	62	50
ZEN ECG 2000 A (¹)	5060	0.920	6.00	80	17.99	14.03	63	69
ZEN ECG 2500 A (¹)	5930	1.067	7.00	75	17.72	13.93	64	83

⚡ ELECTRIC HEATED 208V-1ph~60Hz

Model	Airflow m³/h	Electrical heating capacity (²) 208V-3ph~60Hz kW	Electrical heating capacity (²) 460V-3ph~60Hz kW	Electrical heating capacity (²) 480V-3ph~60Hz kW	Electrical heating capacity (²) 575V-3ph~60Hz kW	Ventilation power 208V-1ph ~60Hz kW	Ventilation current 208V-1ph ~60Hz A	Noise level (5 m) dB(A)	Weight kg
ZEN G 1000 E	2070	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	43
ZEN G 1500 E	2760	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	62
ZEN G 2000 E	4140	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	85
ZEN G 2500 E	4830	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	103
ZEN ECG 1000 E	2340	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.838	60	43
ZEN ECG 1500 E	3140	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	62
ZEN ECG 2000 E	4680	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.676	62	85
ZEN ECG 2500 E	5480	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	103

(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 (°) 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
	m3/h	kW	kW	kW	kW	kW	A	dB(A)	kg
ZEN G 1000 E	2205	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	43
ZEN G 1500 E	2940	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	62
ZEN G 2000 E	4410	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	85
ZEN G 2500 E	5145	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	103
ZEN ECG 1000 E (¹)	2490	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	43
ZEN ECG 1500 E (¹)	3340	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	62
ZEN ECG 2000 E (¹)	4980	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	85
ZEN ECG 2500 E (¹)	5830	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	103

(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	kW	A	dB(A)	kg
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
ZEN G 1000 P	2025	8.65	210	9.36	5590	9.44	1600	0.278	2.70	56	40
ZEN G 1500 P	2700	15.15	850	13.89	7220	14.63	5060	0.370	3.59	57	57
ZEN G 2000 P	4050	23.57	2440	20.02	6140	20.69	2700	0.555	5.39	58	78
ZEN G 2500 P	4725	29.46	4470	23.88	4560	25.70	4860	0.648	6.29	59	95
ZEN ECG 1000 P	2290	11.34	1290	10.21	6510	10.37	1900	0.374	2.84	60	40
ZEN ECG 1500 P	3080	16.47	990	15.17	8440	16.10	6000	0.494	3.78	61	57
ZEN ECG 2000 P	4580	25.61	2830	21.84	7170	22.76	3200	0.748	5.68	62	78
ZEN ECG 2500 P	5370	32.04	5180	26.10	5330	28.29	5770	0.868	6.62	63	95

Water heated: connection pipes P86 and P64 are 2x G(BSP) 3/4" female (male if lateral pipes), P54 2x G(BSP) 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	kW	A	dB(A)	kg
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
ZEN G 1000 P	2145	10.86	1190	9.75	6000	9.87	1740	0.681	2.85	57	40
ZEN G 1500 P	2860	15.76	910	14.48	7770	15.30	5490	0.908	3.80	58	57
ZEN G 2000 P	4290	24.51	2620	20.86	6600	21.64	2930	1.363	5.70	59	78
ZEN G 2500 P	5005	30.64	4790	24.90	4910	26.88	5270	1.590	6.65	60	95
ZEN ECG 1000 P (¹)	2440	11.74	1370	10.59	6950	10.80	2040	0.460	3.00	61	40
ZEN ECG 1500 P (¹)	3280	17.09	1050	15.78	9050	16.80	6480	0.607	4.00	62	57
ZEN ECG 2000 P (¹)	4880	26.54	3020	22.70	7670	23.71	3450	0.920	6.00	63	78
ZEN ECG 2500 P (¹)	5720	32.25	5530	27.14	5720	29.51	6220	1.067	7.00	64	95

Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

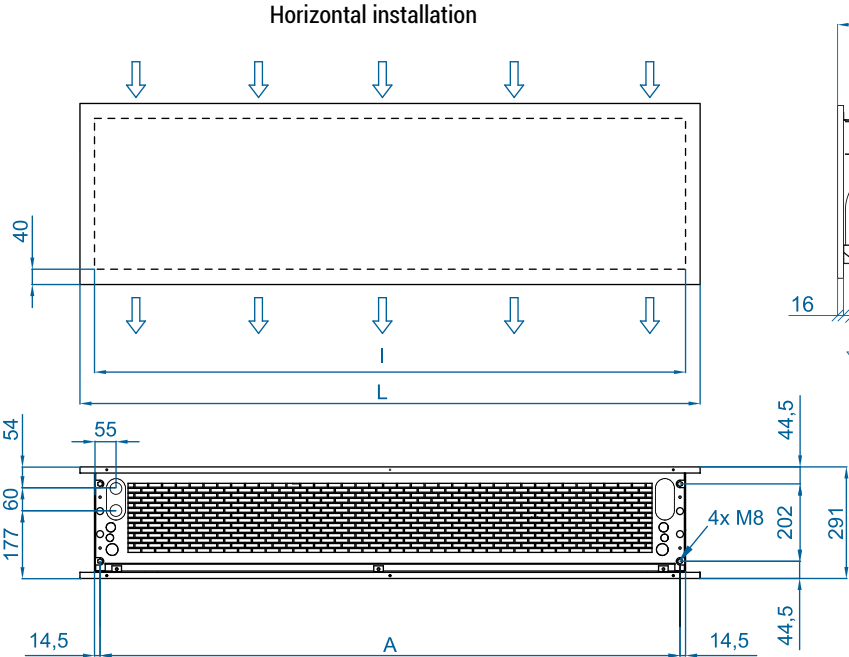
(¹) AMCA Certified.



Selection program

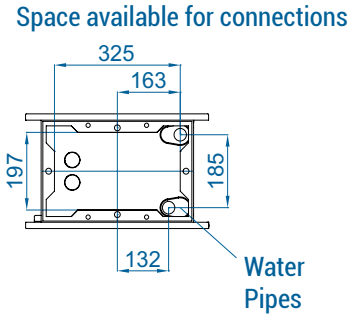
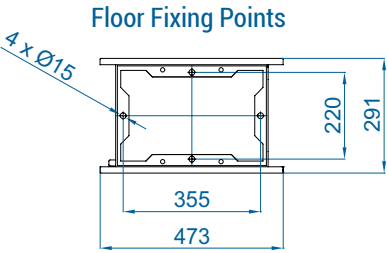
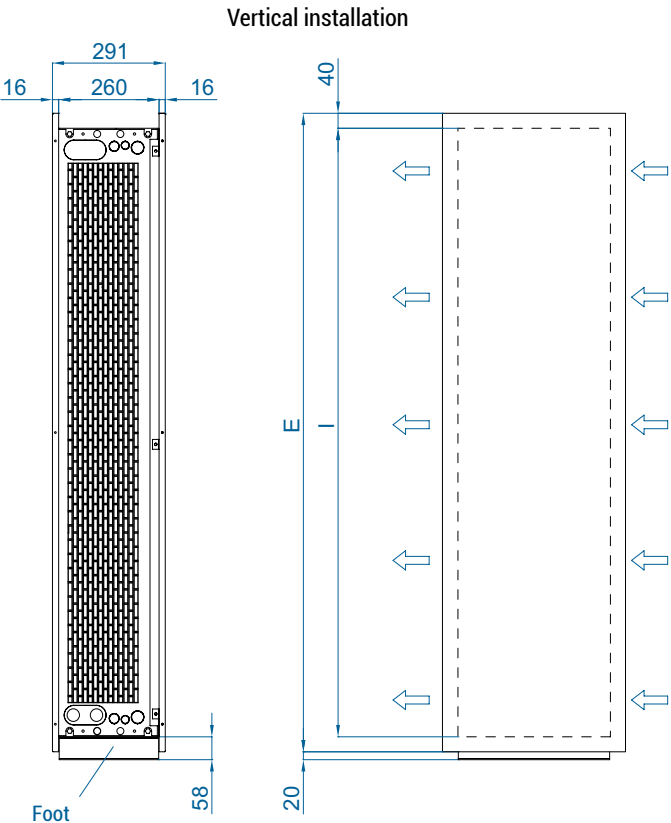


Dimensions



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

Customizable dimensions on request.



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



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT



Omega wall support
SPT4



Wall angle support
Zen MG



Kit junction
SPJ-ZEN
middle and top



Support
Zen arm



Foot support
SPF-ZEN
(Galv. / SS)

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
MEG-DC



Technical Features



Range
Up to 4.2 m



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



Airflow / Length
2025 - 6800 m³/h
1 m to 3 m



Heating capacity
E : 2.5 - 30.5 kW
P : 8.83 - 41.07 kW



Fans
Centrifugal
5-speed



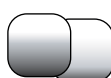
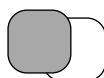
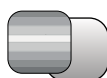
Control
A, E : Plug&Play Advanced PRO
P : Plug&Play manual regulator
+ IR remote control

Faceted
/ Smooth

Standard RAL
9006 / 9016

SS Brushed
/ Polished

Other colors
and materials
on request



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 m ³ /h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
RUND G 1000 A	2100	0.357	1.70	-	-	-	56	46
RUND G 1500 A	2800	0.476	2.27	-	-	-	57	68
RUND G 2000 A	4200	0.714	3.41	-	-	-	58	89
RUND G 2500 A	4900	0.833	3.97	-	-	-	59	98
RUND G 3000 A	5600	0.952	4.54	-	-	-	60	108
RUND ECG 1000 A	2380	0.374	2.84	-	-	-	60	46
RUND ECG 1500 A	3195	0.494	3.78	-	-	-	61	68
RUND ECG 2000 A	4760	0.748	5.68	-	-	-	62	89
RUND ECG 2500 A	5575	0.868	6.62	-	-	-	63	98
RUND ECG 3000 A	6390	0.987	7.57	-	-	-	64	108



❄️ 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
	m³/h	kW	A	%	m/s	m/s	dB(A)	kg
RUND G 1000 A	2235	0.439	1.80	-	-	-	57	46
RUND G 1500 A	2980	0.585	2.40	-	-	-	58	68
RUND G 2000 A	4470	0.878	3.60	-	-	-	59	89
RUND G 2500 A	5215	1.024	4.20	-	-	-	60	98
RUND G 3000 A	5960	1.171	4.80	-	-	-	61	108
RUND ECG 1000 A	2530	0.460	3.00	80	17.99	14.03	61	46
RUND ECG 1500 A	3400	0.607	4.00	72	17.55	13.86	62	68
RUND ECG 2000 A	5060	0.920	6.00	80	17.99	14.03	63	89
RUND ECG 2500 A	5930	1.067	7.00	75	17.72	13.93	64	98
RUND ECG 3000 A	6800	1.214	8.00	72	17.55	13.86	65	108

⚡ 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
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
RUND G 1000 E	2070	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	54
RUND G 1500 E	2760	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	81
RUND G 2000 E	4140	5/9/14	5/10.5/15.5	5.5/11/16.5	6.5/8/14.5	0.714	3.41	58	107
RUND G 2500 E	4830	5.5/9/14.5	6/12/18	6.5/13/19.5	8/9.5/17.5	0.833	3.97	59	118
RUND G 3000 E	5520	6.5/8/14.5	6/12/18	6.5/13/19.5	9.5/9.5/19	0.952	4.54	60	128
RUND ECG 1000 E	2340	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.84	60	54
RUND ECG 1500 E	3140	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	81
RUND ECG 2000 E	4680	5/9/14	8/16.5/24.5	8.8/17.7/26.5	8/16/24	0.748	5.68	62	107
RUND ECG 2500 E	5480	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	118
RUND ECG 3000 E	6280	6.5/8/14.5	9.5/18.5/28	10.2/20.3/30.5	9.5/19/28.5	0.987	7.57	64	128

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) 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 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
RUND G 1000 E	2205	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	54
RUND G 1500 E	2940	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	81
RUND G 2000 E	4410	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.878	3.60	59	107
RUND G 2500 E	5145	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	118
RUND G 3000 E	5880	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	128
RUND ECG 1000 E	2490	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	54
RUND ECG 1500 E	3340	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	81
RUND ECG 2000 E	4980	5/9/14	8.2/16.3/24.5	8.8/17.7/26.5	8/16/24	0.920	6.00	63	107
RUND ECG 2500 E	5830	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	118
RUND ECG 3000 E	6680	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	128

(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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	208V-1ph ~60Hz	208V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RUND G 1000 P	2025	8.65	210	9.36	5590	9.44	1600	0.357	1.70	56	52
RUND G 1500 P	2700	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	77
RUND G 2000 P	4050	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	100
RUND G 2500 P	4725	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	109
RUND G 3000 P	5400	35.30	7330	28.79	7570	30.38	6400	0.952	4.54	60	119
RUND ECG 1000 P	2290	11.34	1290	10.21	6510	10.37	1900	0.374	2.84	60	52
RUND ECG 1500 P	3080	16.47	990	15.17	8440	16.10	6000	0.494	3.78	61	77
RUND ECG 2000 P	4580	25.61	2830	21.84	7170	22.76	3200	0.748	5.68	62	100
RUND ECG 2500 P	5370	32.04	5180	26.10	5330	28.29	5770	0.868	6.62	63	109
RUND ECG 3000 P	6160	38.42	8520	31.49	8860	33.47	7600	0.987	7.57	64	119

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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	240V-1ph ~60Hz	240V-1ph ~60Hz	(5 m)	
	m3/h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	kg
RUND G 1000 P	2145	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	57	52
RUND G 1500 P	2860	15.76	910	14.48	7770	15.30	5490	0.585	2.40	58	77
RUND G 2000 P	4290	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	59	100
RUND G 2500 P	5005	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	60	109
RUND G 3000 P	5696	36.73	7870	30.03	8150	31.79	6940	1.171	4.80	61	119
RUND ECG 1000 P	2440	11.74	1370	10.59	6950	10.80	2040	0.460	3.00	61	52
RUND ECG 1500 P	3280	17.09	1050	15.78	9050	16.80	6480	0.607	4.00	62	77
RUND ECG 2000 P	4880	26.54	3020	22.70	7670	23.71	3450	0.920	6.00	63	100
RUND ECG 2500 P	5720	32.25	5530	27.14	5720	29.51	6220	1.067	7.00	64	109
RUND ECG 3000 P	6505	39.90	9110	32.77	9510	34.96	8210	1.214	8.00	65	119

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.

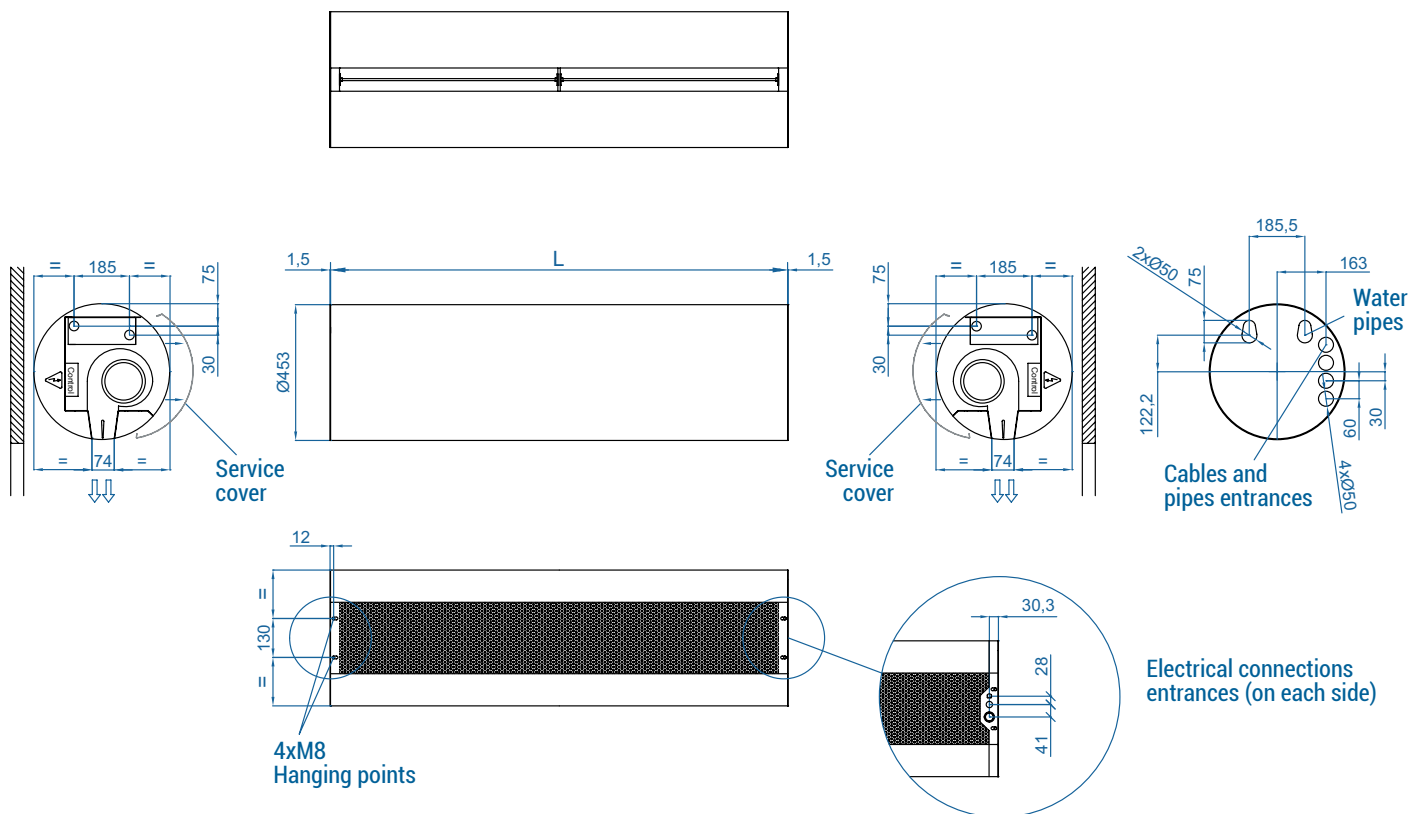


Selection program

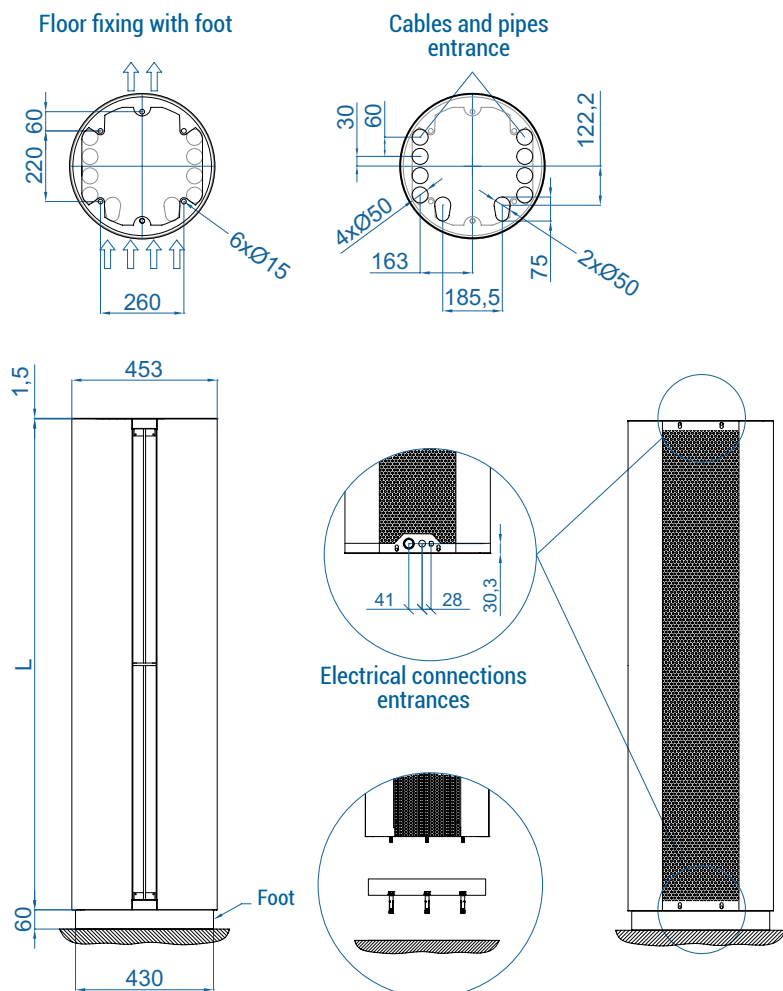


Dimensions

Horizontal installation



Vertical installation



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

Customizable dimensions on request.

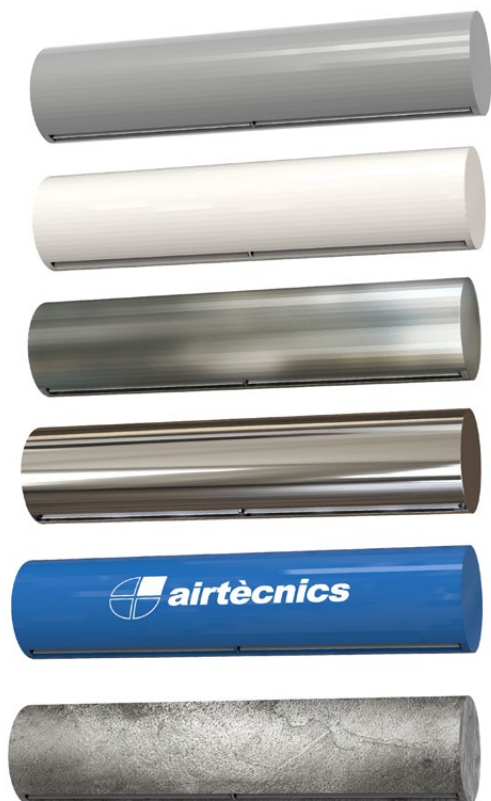


WATCH VIDEO
Finishes and
configurations

CAD drawings, installation manuals
and other documentation



Installation configurations and finishes



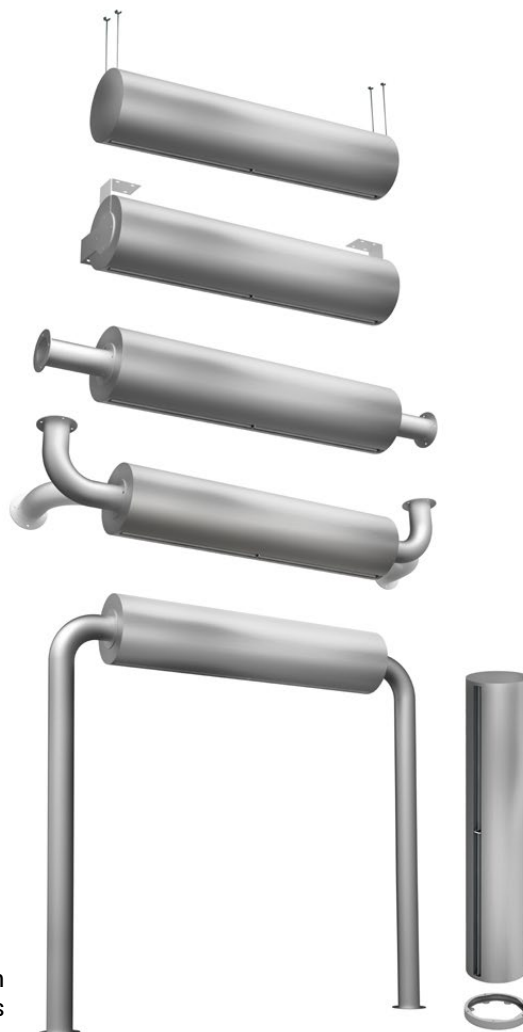
SEE FINISHES
CATALOGUE



WATCH VIDEO

Wide variety of
finishes available

Multiple installation
configurations and brackets



Optional accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Suspension cables
SPCT



180° straight arm
Rund



Round arm
Rund



Kit junction Rund
ceiling / wall



Side bracket Rund
ceiling / wall



Foot support
SPF-Rund
(Galv. / SS)

Control



Advanced Pro
✓ Included "A", "E"



CW-5AW-IR
✓ Included "P"



IR Control
✓ Included



RJ45 Cable
✓ Included

Sensors



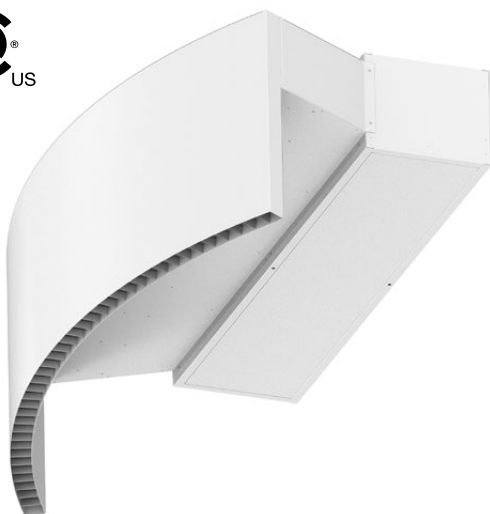
Magnetic door contact
MAG-DC
✓ Included



Mechanical door contact
MEG-DC



Technical Features



Range
Up to 4.2 m



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



Casing
Galvanised Steel [*]



Airflow / Length
2025 - 5930 m³/h
1 m to 2.5 m



Heating capacity
E : 2.5 - 30.5 kW
P : 8.86 - 33.63 kW



Grille type
Micro-perforated with prefilter function



Fans
Centrifugal 5-speed



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



Outlet lamellas
Aluminium, airfoil type

RAL 9016 standard



Other colors on request



Stainless steel



[*] Customizable dimensions on request

ROTOWIND air curtains are custom designed to fit perfectly with the curvature of any revolving door. They can be mounted discreetly in two possible layout configurations, with tailored dimensions: standard (on top mounting) or inverted (false ceiling mounting).

Self-supporting casing construction finished in white colour RAL 9016 as standard. Other colours or stainless steel are available on request.

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

"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 m³/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
ROTO G 1000 A	2100	0.357	1.70	-	-	-	56	-
ROTO G 1500 A	2800	0.476	2.27	-	-	-	57	-
ROTO G 2000 A	4200	0.714	3.41	-	-	-	58	-
ROTO G 2500 A	4900	0.833	3.97	-	-	-	59	-
ROTO ECG 1000 A	2380	0.374	2.84	-	-	-	60	-
ROTO ECG 1500 A	3195	0.494	3.78	-	-	-	61	-
ROTO ECG 2000 A	4760	0.748	5.68	-	-	-	62	-
ROTO ECG 2500 A	5575	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
	m³/h	kW	A	%	m/s	m/s	dB(A)	kg
ROTO G 1000 A	2235	0.439	1.80	-	-	-	57	-
ROTO G 1500 A	2980	0.585	2.40	-	-	-	58	-
ROTO G 2000 A	4470	0.878	3.60	-	-	-	59	-
ROTO G 2500 A	5215	1.024	4.20	-	-	-	60	-
ROTO ECG 1000 A	2530	0.460	3.00	80	17.99	14.03	61	-
ROTO ECG 1500 A	3400	0.607	4.00	72	17.55	13.86	62	-
ROTO ECG 2000 A	5060	0.920	6.00	80	17.99	14.03	63	-
ROTO ECG 2500 A	5930	1.067	7.00	75	17.72	13.93	64	-

⚡ 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
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
ROTO G 1000 E	2070	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	2760	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	4140	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	4830	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	2340	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.374	2.838	60	-
ROTO ECG 1500 E	3140	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	4680	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	5480	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) 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 240V-1ph~60Hz	Ventilation current 240V-1ph~60Hz	Noise level (5 m)	Weight
	m³/h	kW	kW	kW	kW	kW	A	dB(A)	kg
ROTO G 1000 E	2205	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.439	1.80	57	-
ROTO G 1500 E	2940	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	4410	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	5145	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	2490	4/8/12	4/8/12	4.3/8.7/13	4/8/12	0.460	3.00	61	-
ROTO ECG 1500 E	3340	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	4980	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	5830	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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	208V-1ph ~60Hz	208V-1ph ~60Hz	(5 m)	
	m ³ /h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	
ROTO G 1000 P	2025	8.65	210	9.36	5590	9.44	1600	0.357	1.70	56	-
ROTO G 1500 P	2700	15.15	850	13.89	7220	14.63	5060	0.476	2.27	57	-
ROTO G 2000 P	4050	23.57	2440	20.02	6140	20.69	2700	0.714	3.41	58	-
ROTO G 2500 P	4725	29.46	4470	23.88	4560	25.70	4860	0.833	3.97	59	-
ROTO ECG 1000 P	2290	11.34	1290	10.21	6510	10.37	1900	0.374	2.84	60	-
ROTO ECG 1500 P	3080	16.47	990	15.17	8440	16.10	6000	0.494	3.78	61	-
ROTO ECG 2000 P	4580	25.61	2830	21.84	7170	22.76	3200	0.748	5.68	62	-
ROTO ECG 2500 P	5370	32.04	5180	26.10	5330	28.29	5770	0.868	6.62	63	-

Water heated: connection pipes P86 and P64 are 2x G(BSP) 3/4" female (male if lateral pipes), P54 2x G(BSP) 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	Ventilation current	Noise level	Weight
		Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	Water heating capacity	Water pressure drop	240V-1ph ~60Hz	240V-1ph ~60Hz	(5 m)	
	m ³ /h	kW	Pa	kW	Pa	kW	Pa	kW	A	dB(A)	
ROTO G 1000 P	2145	10.86	1190	9.75	6000	9.87	1740	0.439	1.80	57	-
ROTO G 1500 P	2860	15.76	910	14.48	7770	15.30	5490	0.585	2.40	58	-
ROTO G 2000 P	4290	24.51	2620	20.86	6600	21.64	2930	0.878	3.60	59	-
ROTO G 2500 P	5005	30.64	4790	24.90	4910	26.88	5270	1.024	4.20	60	-
ROTO ECG 1000 P	2440	11.74	1370	10.59	6950	10.80	2040	0.460	3.00	61	-
ROTO ECG 1500 P	3280	17.09	1050	15.78	9050	16.80	6480	0.607	4.00	62	-
ROTO ECG 2000 P	4880	26.54	3020	22.70	7670	23.71	3450	0.920	6.00	63	-
ROTO ECG 2500 P	5720	32.25	5530	27.14	5720	29.51	6220	1.067	7.00	64	-

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

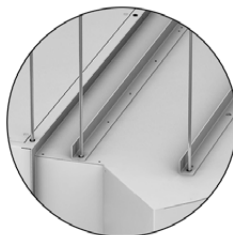


Installation configurations

Standard: Above de door

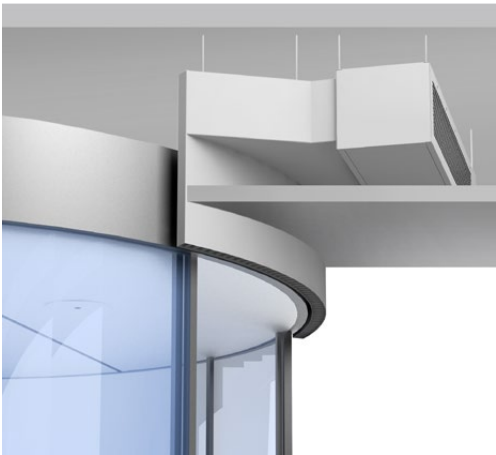


Mounted installation

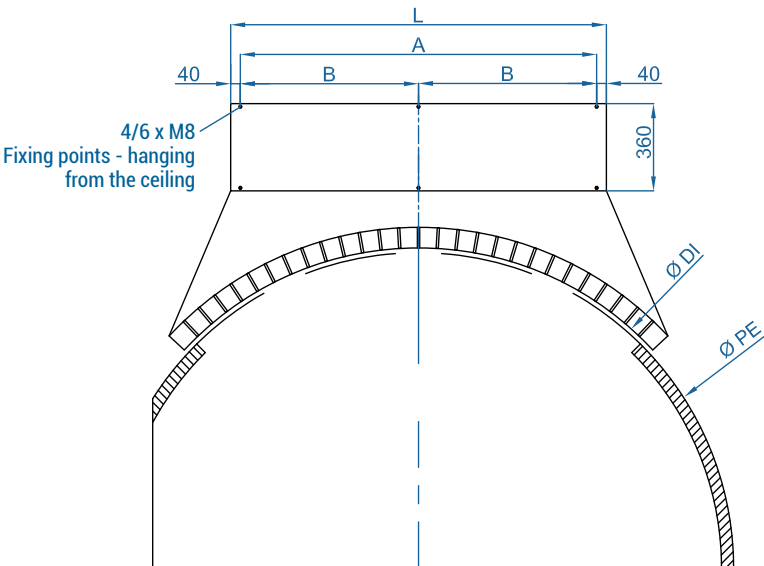
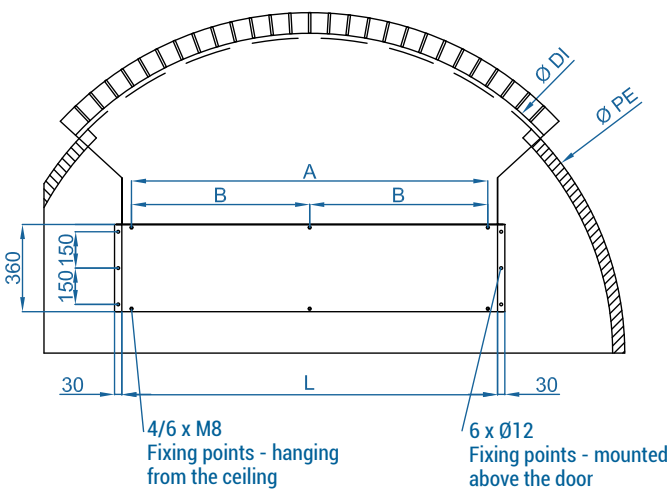
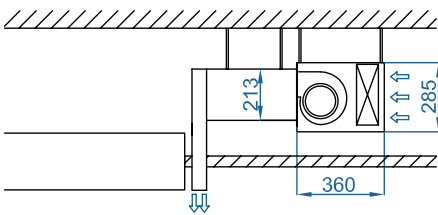
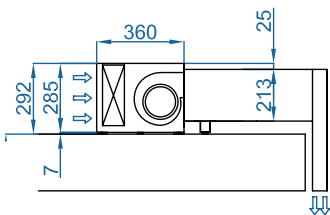


Hanging installation

Inverted: False ceiling mounting



Dimensions



	L	I	A
ROTO 1000	1050	970	-
ROTO 1500	1550	1470	735
ROTO 2000	2055	1975	987.5
ROTO 2500	2555	2475	1237.5

CAD drawings, installation manuals
and other documentation

Ø DI	Inside Outlet Diameter
Ø PE	External Door Diameter



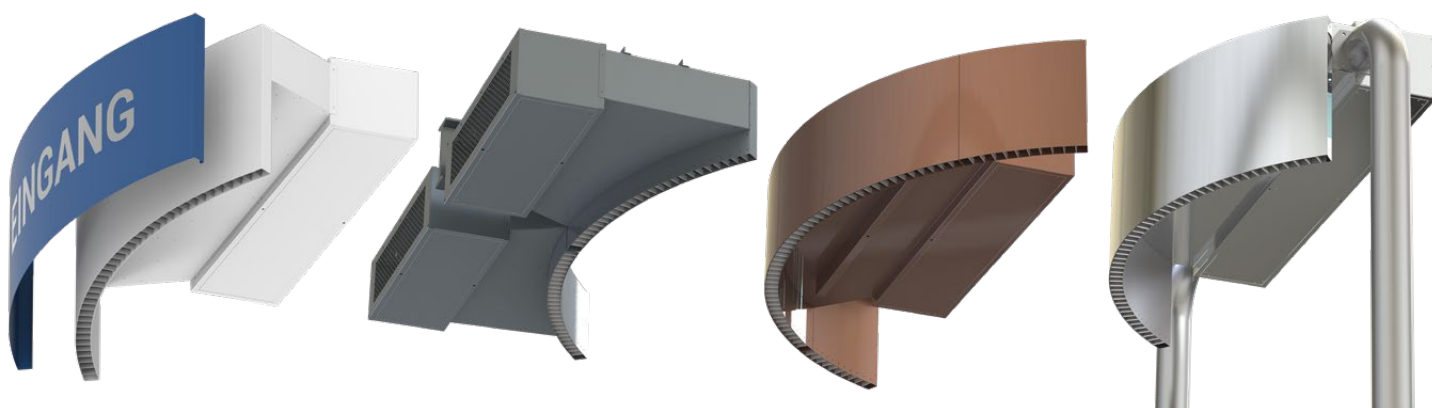
Customizable dimensions on request.



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



Range
Up to 4.2 m



Heating types
A : unheated



Airflow / Length
**1620 - 6940 m3/h
1 m to 3 m**



Heating capacity
-



Fans
**Centrifugal
5-speed**



Control
Plug&Play Advanced PRO

RAL 9016
standard



Stainless
steel



Other colors
on request



Casing
Galvanised Steel



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



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

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

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

Includes 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 m3/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
KM 1000 A	1620	0.238	1.14	58	15.91	11.69	54	29
KM 1500 A	2430	0.357	1.70	58	15.91	11.69	55	44
KM 2000 A	3240	0.476	2.27	58	15.91	11.69	56	53
KM 2500 A	4050	0.595	2.84	58	15.91	11.69	57	58
KM 3000 A	4860	0.714	3.41	58	15.91	11.69	58	76
KG 1000 A	2145	0.357	1.70	-	-	-	56	37
KG 1500 A	2860	0.476	2.27	-	-	-	57	55
KG 2000 A	4290	0.714	3.41	-	-	-	58	71
KG 2500 A	5005	0.833	3.97	-	-	-	59	78
KG 3000 A	5720	0.952	4.54	-	-	-	60	86
KECG 1000 A	2445	0.350	2.63	91	15.97	13.97	60	37
KECG 1500 A	3260	0.466	3.50	91	15.97	13.97	61	56
KECG 2000 A	4890	0.699	5.25	91	15.97	13.97	62	71
KECG 2500 A	5705	0.816	6.13	91	15.97	13.97	63	78
KECG 3000 A	6520	0.932	7.00	91	15.97	13.97	64	86



✿ UNHEATED 240V-1ph~60Hz

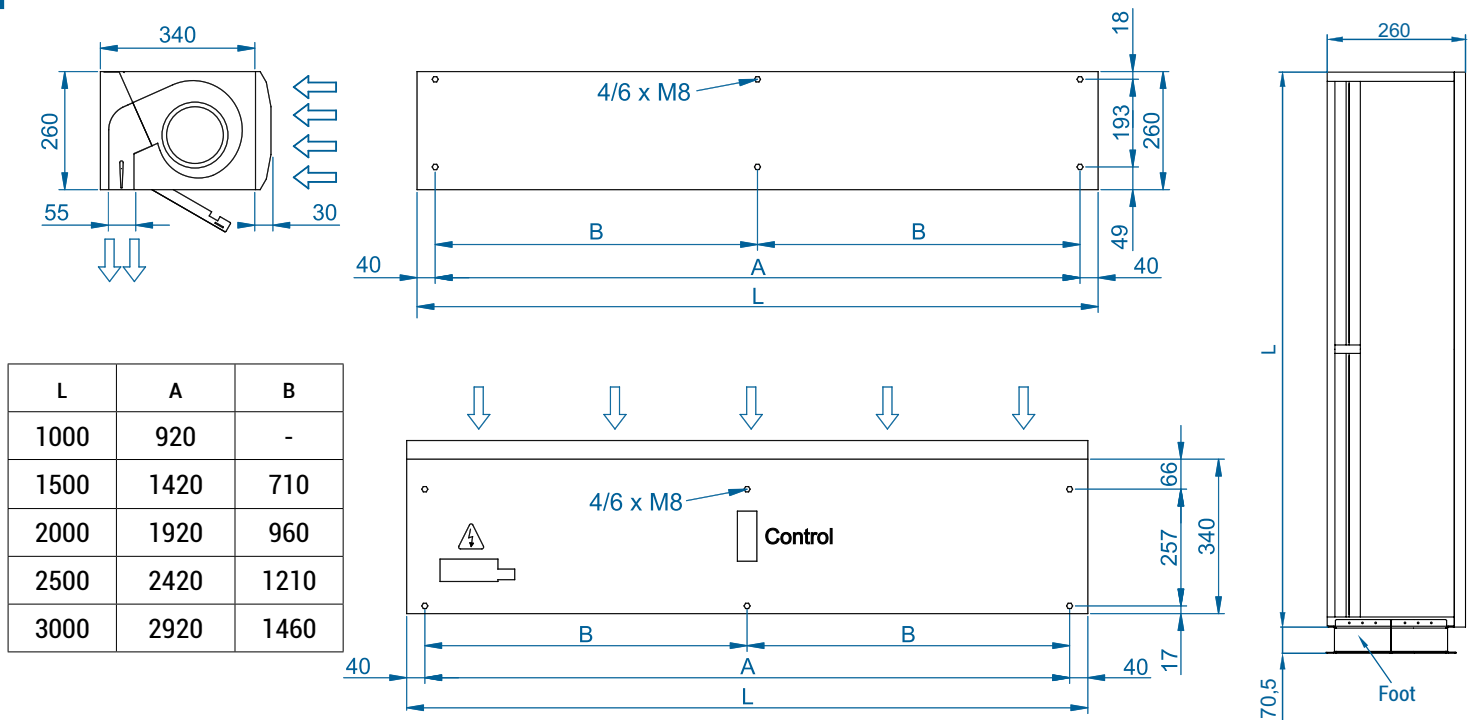
Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
KM 1000 A	1720	0.293	1.20	58	16.45	12.20	55	29
KM 1500 A	2580	0.439	1.80	58	16.45	12.20	56	44
KM 2000 A	3440	0.585	2.40	58	16.45	12.20	57	53
KM 2500 A	4300	0.732	3.00	58	16.45	12.20	58	58
KM 3000 A	5160	0.878	3.60	58	16.45	12.20	59	76
KG 1000 A	2280	0.439	1.80	-	-	-	57	37
KG 1500 A	3040	0.585	2.40	-	-	-	58	55
KG 2000 A	4560	0.878	3.60	-	-	-	59	71
KG 2500 A	5320	1.024	4.20	-	-	-	60	78
KG 3000 A	6080	1.171	4.80	-	-	-	61	86
KECG 1000 A	2600	0.454	3.00	87	17.14	15.32	61	37
KECG 1500 A	3470	0.573	3.70	91	16.52	14.57	62	56
KECG 2000 A	5200	0.908	6.00	87	17.14	15.32	63	71
KECG 2500 A	6070	1.027	6.70	89	16.77	14.87	64	78
KECG 3000 A	6940	1.146	7.40	91	16.52	14.57	65	86



Selection program

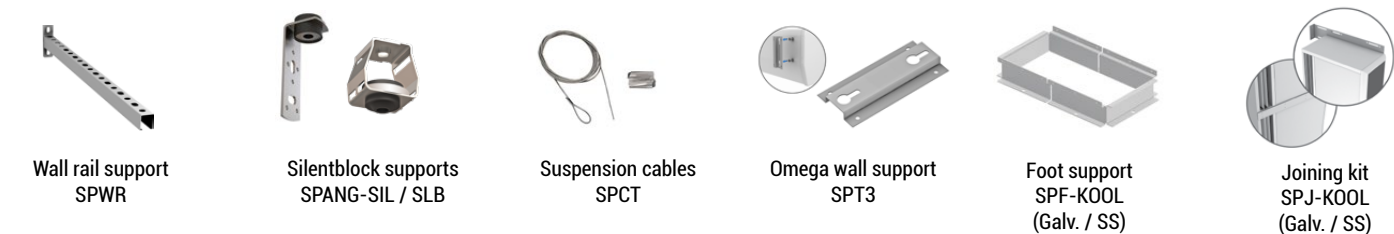


Dimensions



Optional accessories

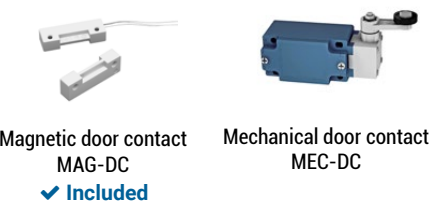
Supports



Control



Sensors



CAD drawings, installation manuals
 and other documentation





Technical Features



Range
Up to 4.2m



Heating types
A : unheated



Airflow / Length
**1620 - 6070 m3/h
1 m to 2.5 m**



Heating capacity
-



Fans
**Centrifugal
5-speed**



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 m3/h	Ventilation power 208V-1ph~60Hz kW	Ventilation current 208V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
CR M 1000 A	1620	0.238	1.14	58	15.91	11.69	54	33
CR M 1500 A	2430	0.357	1.70	58	15.91	11.69	55	50
CR M 2000 A	3240	0.476	2.27	58	15.91	11.69	56	61
CR M 2500 A	4050	0.595	2.84	58	15.91	11.69	57	68
CR G 1000 A	2145	0.357	1.70	-	-	-	56	37
CR G 1500 A	2860	0.476	2.27	-	-	-	57	55
CR G 2000 A	4290	0.714	3.41	-	-	-	58	71
CR G 2500 A	5005	0.833	3.97	-	-	-	59	78
CR ECG 1000 A	2445	0.350	2.63	91	15.97	13.97	60	37
CR ECG 1500 A	3260	0.466	3.50	91	15.97	13.97	61	56
CR ECG 2000 A	4890	0.699	5.25	91	15.97	13.97	62	71
CR ECG 2500 A	5705	0.816	6.13	91	15.97	13.97	63	78



✱ UNHEATED 240V-1ph~60Hz

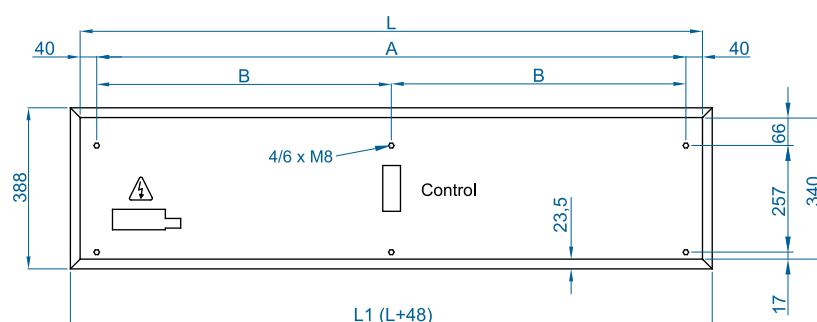
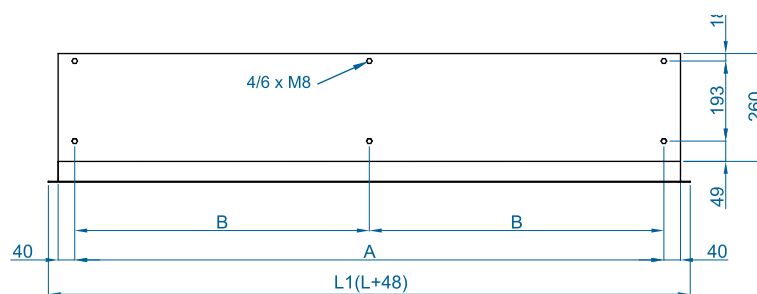
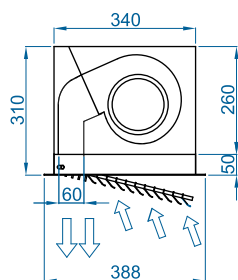
Model	Airflow m ³ /h	Ventilation power 240V-1ph~60Hz kW	Ventilation current 240V-1ph~60Hz A	Outlet Uniformity %	Outlet maximum velocity m/s	Outlet average velocity m/s	Noise level (5 m) dB(A)	Weight kg
CR M 1000 A	1720	0.293	1.20	58	16.45	12.20	55	33
CR M 1500 A	2580	0.439	1.80	58	16.45	12.20	56	50
CR M 2000 A	3440	0.585	2.40	58	16.45	12.20	57	61
CR M 2500 A	4300	0.732	3.00	58	16.45	12.20	58	68
CR G 1000 A	2280	0.439	1.80	-	-	-	57	37
CR G 1500 A	3040	0.585	2.40	-	-	-	58	55
CR G 2000 A	4560	0.878	3.60	-	-	-	59	71
CR G 2500 A	5320	1.024	4.20	-	-	-	60	78
CR ECG 1000 A	2600	0.454	3.00	87	17.14	15.32	61	37
CR ECG 1500 A	3470	0.573	3.70	91	16.52	14.57	62	56
CR ECG 2000 A	5200	0.908	6.00	87	17.14	15.32	63	71
CR ECG 2500 A	6070	1.027	6.70	89	16.77	14.87	64	78



Selection program



Dimensions



	L	L1	A	B
RC 1000	1000	1048	920	-
RC 1500	1500	1548	1420	710
RC 2000	2000	2048	1920	960
RC 2500	2500	2548	2420	1210

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



Mechanical door contact
MEC-DC



Magnetic
door contact MAG-DC
✓ Included

Power Coefficients

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

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

Water			Air Inlet Temperature			Water			Air Inlet Temperature				
Coil	Difference	Temperatures	15°C	18°C	20°C	Coil	Difference	Temperatures	15°C	18°C	20°C		
80/60 2 rows	20°C	100/80	1.58	1.53	1.46	50/40 4 rows	20°C	100/80	3.26	3.11	3.01		
		90/70	1.35	1.27	1.22			90/70	2.79	2.64	2.54		
		80/60	1.11	1.04	1.00			80/60	2.32	2.17	2.07		
		70/50	0.89	0.82	0.78			70/50	1.83	1.69	1.59		
		60/40	0.66	0.59	0.54			60/40	1.35	1.21	1.11		
		55/35	0.54	0.47	0.42			50/30	0.85	0.68	0.58		
	15°C	100/85	1.72	1.64	1.59		15°C	80/65	2.47	2.34	2.24		
		90/75	1.47	1.40	1.35			70/55	2.01	1.86	1.77		
		80/65	1.22	1.14	1.09			60/45	1.53	1.39	1.30		
		70/55	0.97	0.90	0.86			50/35	1.05	0.91	0.83		
		60/45	0.73	0.66	0.61			45/30	0.85	0.71	0.63		
		50/35	0.48	0.40	0.35			10°C	60/50	1.71	1.57	1.47	
	10°C	80/70	-	1.28	1.20		50/40		1.24	1.10	1.00		
		70/60	1.09	1.02	0.97		40/30		0.77	0.62	0.53		
		60/50	0.84	0.77	0.72								
		50/40	0.59	0.52	0.48								
		40/30	0.35	0.27	0.22								
60/40 3 rows	20°C	100/80	2.86	2.71	2.62	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.							
		90/70	2.45	2.30	2.21								
		80/60	2.03	1.89	1.81								
		70/50	1.61	1.48	1.40								
		60/40	1.21	1.08	1.00								
		50/30	0.80	0.67	0.59								
	15°F	60/45	-	1.22	1.14								
		50/35	0.94	0.82	0.75								
	10°C	40/30	0.69	0.57	0.49								

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

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

Example of heat capacity calculation:

Model M 2000 P 80/60°C

Air inlet temperature 15°C, Water temperature 90/70°C

$$\text{HEAT CAPACITY} = \text{Nominal Power (20.67 kW)} \times \text{Coefficient (1.35)} = 27.91 \text{ kW}$$



Selection program

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?

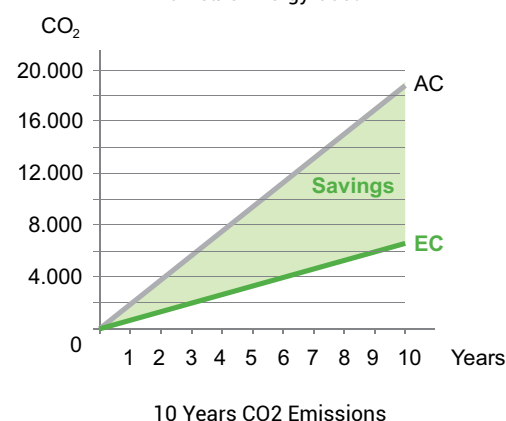
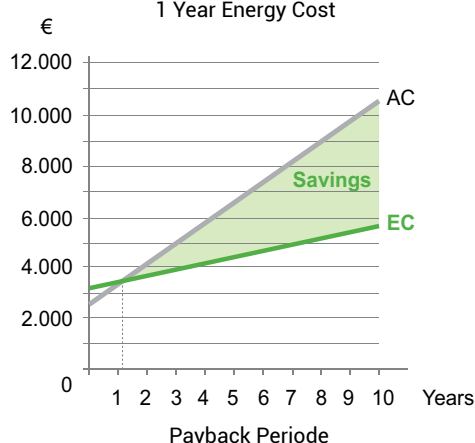
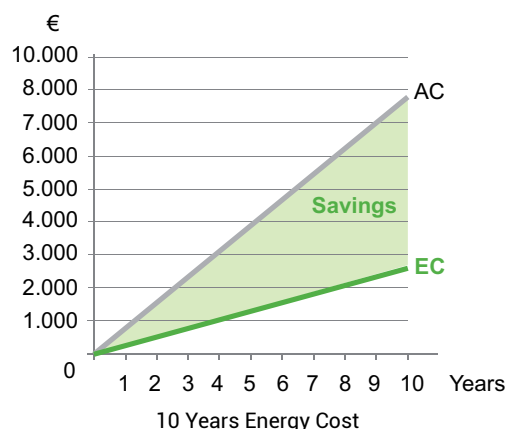
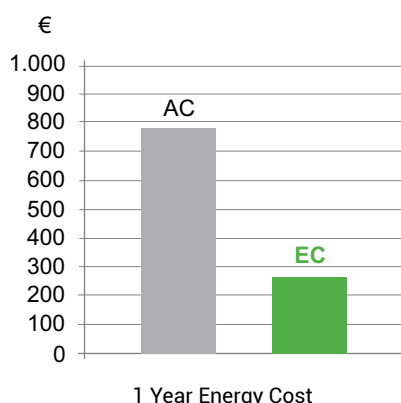
Example:

Door dimension: 62 m width by 3.8 m height
 Running time: 12 hours/day, 6 days/week, 50 weeks (~ 1 year)
 Energy cost: 0,05 €/kW (EU-27 average cost)
 Selected unit: AC: G 2000, EC: ECG 2000

	AC Air Curtain		EC Air Curtain		Difference
Total Fans Power	1.285	kW	0.45	kW	- 0.835 kW
Air Curtain Price	2684	€/unit	3357	€/unit	+ 673 \$
Energy Consumption	4622	kW/h	1621	kW/h	- 3001 kW/h
Energy Cost	844	€	295	€	- 549 €
CO2 Emissions	1848.84	kg	648.18	kg	- 1200.65 kg

Result:

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



Basic control (Water heated only)

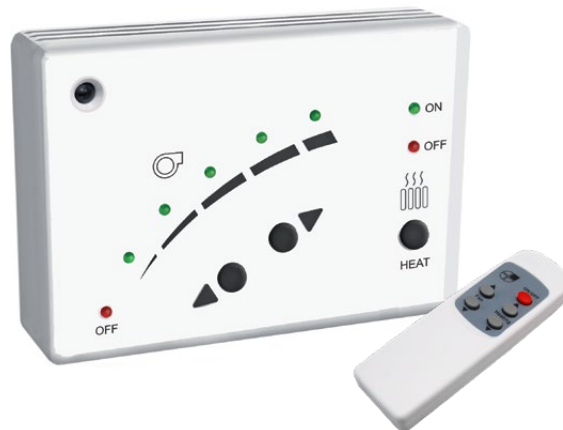
Two ranges of control panels, both designed for easy and quick Plug&Play RJ45 cable connection. The digital communication between the control panel and air curtain is a very reliable connection without information losses even at long distances. All control panels can be turned ON/OFF externally and have 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 (except CS-5DX-NE). 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

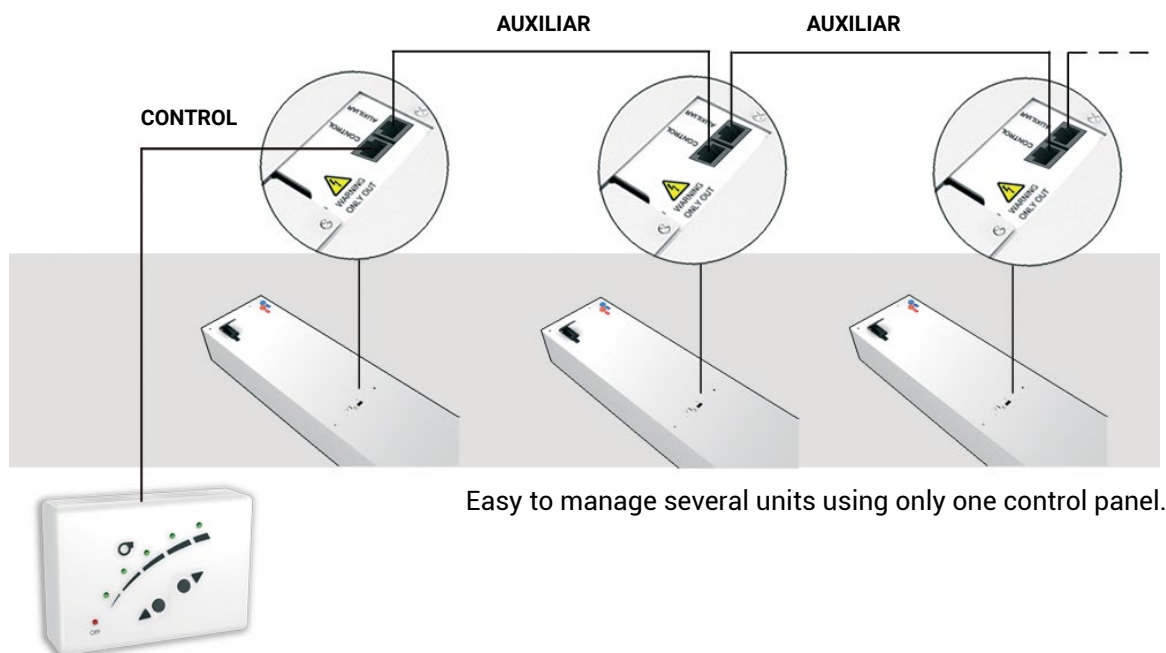
- **Memory:** guarantees that, in the event of a power outage, the selected speed is maintained when service is restored. This function can be activated/deactivated using the ON/OFF switch located inside the regulator.



- **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.

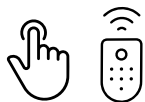
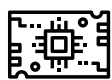
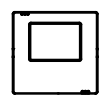


IN-NE-II

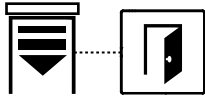
Advanced control: Advanced PRO Control

- **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.



 Screen LCD 2,8" Backlit	 Management Touch keypad IR remote control	 Control connection Plug&Play RJ45 Digital IN (x3)	 Electronics Poka-Yoke connections Electrical protections	 PCB protection Tropicalized
 Housing material ABS UL 94 V0	 Housing finish RAL 9016 Polished surface	 Weight 144 g	 Fire protection Self-extinguishing	 Security screw 3 x L6 mm optional

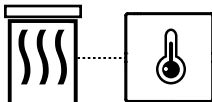
Features



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

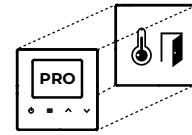
With the temperature sensors (one internal included in Advanced Pro, and the other optional external), the following functions can be carried out:

- **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.



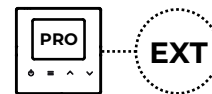
Temperature and door sensors included

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.

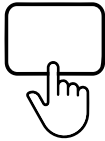
User menu: Allows to select the ventilation speed, the heating stage for open and closed door, and temperature setting.

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).

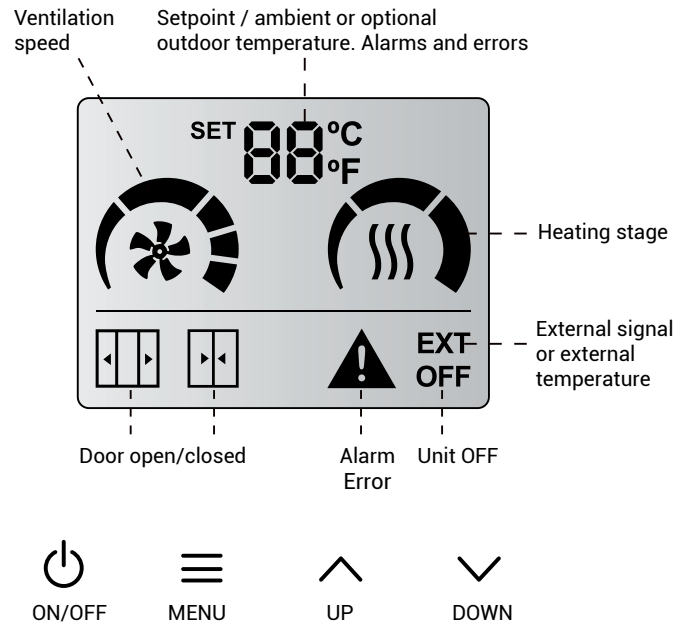
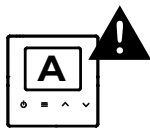
Advanced control: Advanced PRO Control

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.

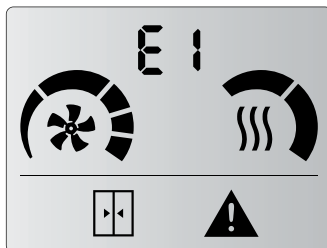
Alarms: Overheat (A1), Heater blocked (A2), Antifreezing(A3), Fire alarm (A6).

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

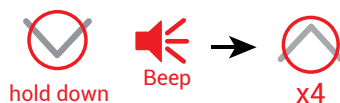
Alarms and errors depend on the connected equipment and the type of heating.

Errors

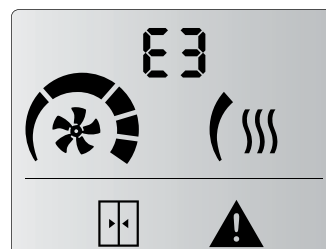
E1 - Filter/maintenance



Indicates filter change or cleaning / maintenance. This alarm is activated by time counter. It does not affect operation. To reset the counter:



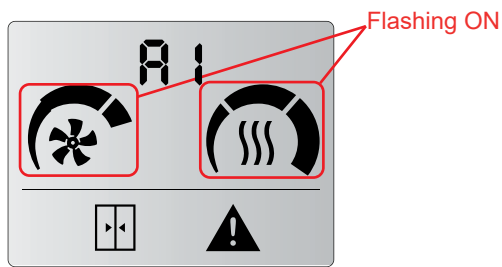
E3 - Missing temperature sensor



Missing temperature sensor or temperature out of range. Unit operation adapts and remains working according to inbuilt room temperature sensor.

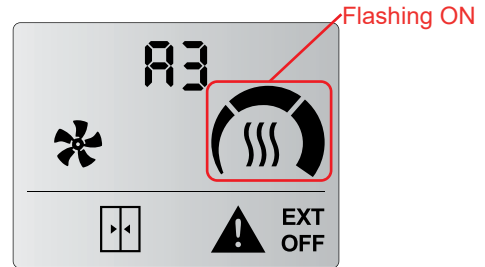
Alarms

A1 - Overheating (only electrical heated)



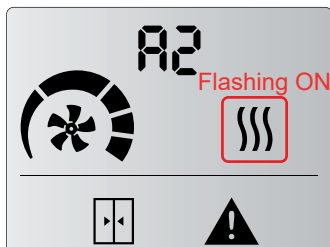
When the unit goes into overheating, it starts a process to cool it down. The ventilation starts to rise up to the maximum each 2 minutes. If overheating persists, the heating is turned down each 2 minutes until it is switched off. If it is still not solved, after 2 minutes heating is blocked and alarm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

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.

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.

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

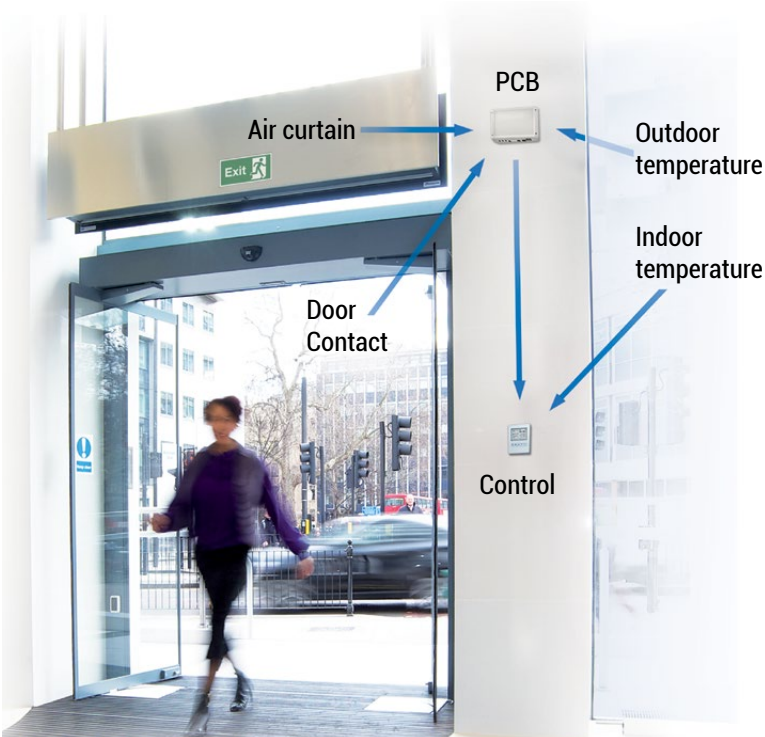
INTELLIGENT
PROACTIVE
REGULATION



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

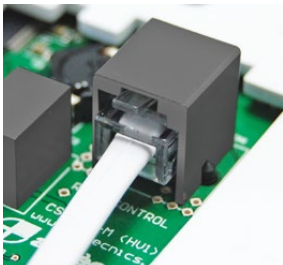


BMS

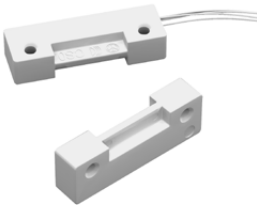
Connectivity
Modbus BMS



Easy
Plug&Play
installation



Regulation
with valves:
thermostatic,
solenoid,
modulating



Ambient
thermostat
and external
temperature
sensors

Advanced Control: Clever Control

Features



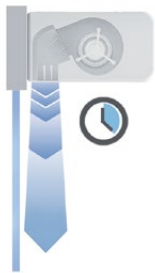
USER FRIENDLY DESIGN

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.



Windbox

Classic standard design



Smart

Elegant and discreet design with hidden inlet grille



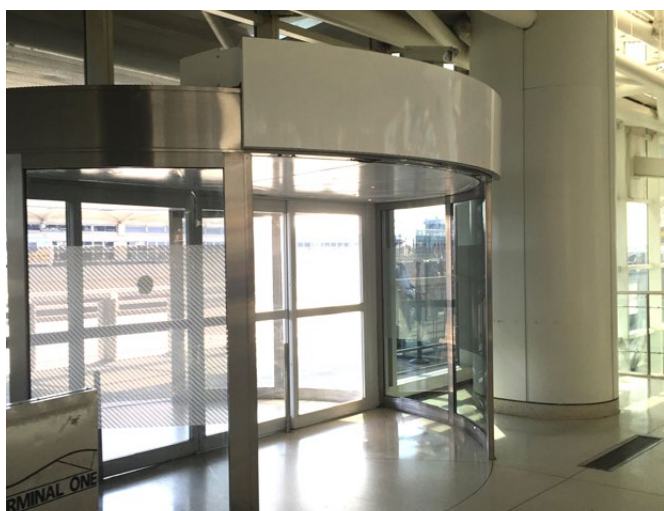
Dam

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



Zen
With wood panels in a chain restaurant



Rund
Rounded, vertical and in stainless steel design



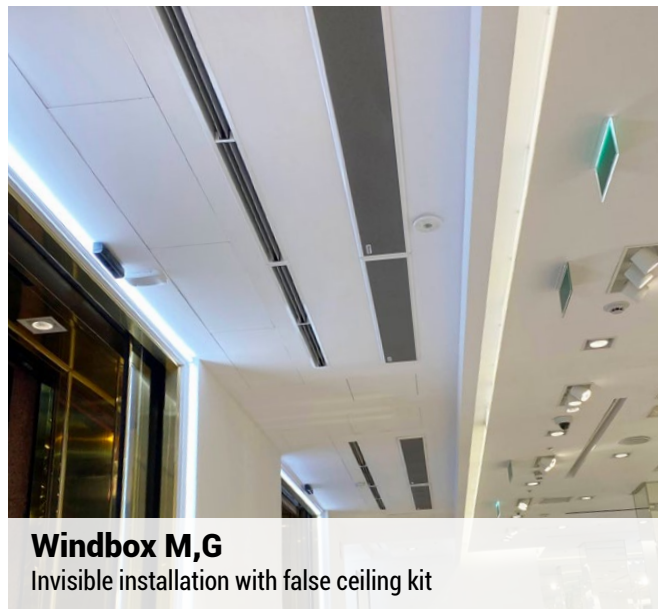
Rund
Tailor made-linear installation for large openings



Rund
Installation with special goalpost supports



Recessed Windbox
Integration in false ceiling in a shopping center



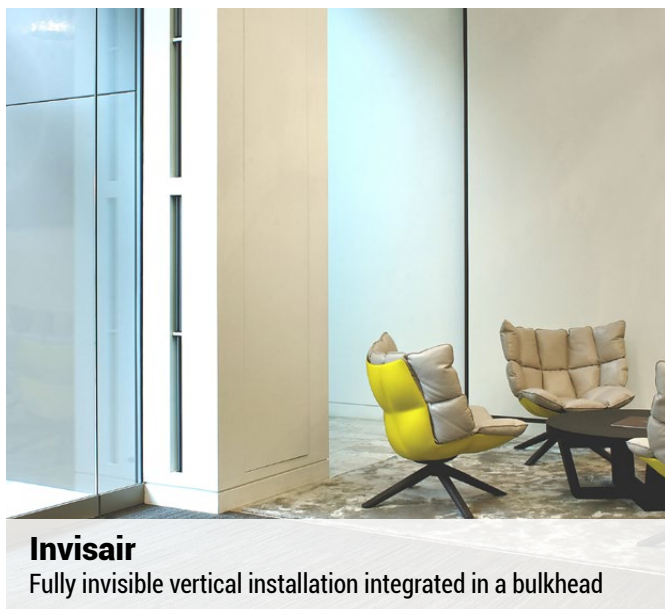
Windbox M,G
Invisible installation with false ceiling kit



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



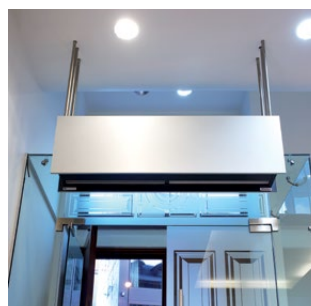
Rotowind
Tailor-made design for all types of revolving doors



Production for world renowned brands



See all references

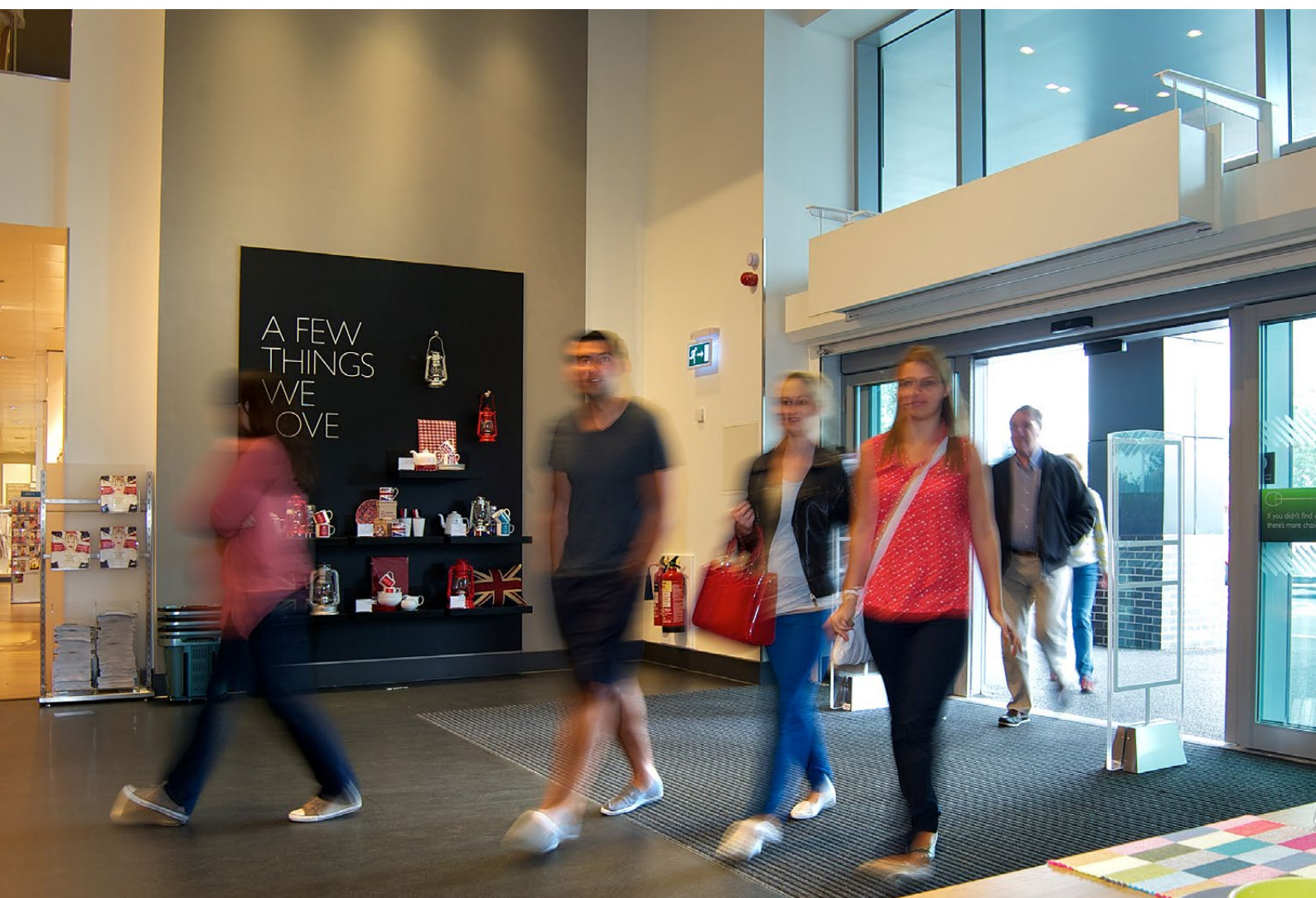


See all installation photos



Sagrada Familia (Barcelona, Spain)
Alhambra (Granada, Spain)
Eiffel Tower (Paris, France)
Nanaimo Airport (Cassidy, Canada)
Ferrari (Las Rozas, Spain)
United Nations Palace (Geneva, Switzerland)
El Prat Airport (Barcelona, Spain)
JFK Airport (New York, United States)
Atocha Station (Madrid, Spain)
Ikea (Ottawa, CA)
Louvre Museum (Paris, France)
National Theater (London, UK)
Apple Headquarters (London, UK)
Nike Paseo de Gracia (Barcelona, Spain)

Zara (Milan, Italy)
Porsche (Stuttgart, Germany)
BBVA Headquarters (Bilbao, Spain)
Telephone Factory (Madrid, Spain)
Würth factory (Kouvola, Finland)
Aston Martin F1 Team (Silverstone, UK)
BASF factory (Milan, Italy)
American Naval Base (Juffar, Bahrain)
Hilton Hotel (Addis Ababa, Ethiopia)
Disneyland (Paris, France)
Port Aventura (Salou, Spain)
Camp Nou (Barcelona, Spain)
San Siro (Milan, Italy)
Circuit de Catalunya F1 (Montmeló, Spain)



Station of HIA (Doha, Qatar)
Riffa King Palace (Manama, Bahrain)
Generalitat de Catalunya (Barcelona, Spain)
Central Station (Vienna, Austria)
Victorian Comprehensive (Melbourne, Australia)
Hospital Sant Joan de Déu (Barcelona, Spain)
MNAC (Barcelona, Spain)
Louis Vuitton (London, UK)
Hugo Boss (Dublin, Ireland)
Foot Locker (Amsterdam, The Netherlands)
Starbucks (Warsaw, Poland)
Mercedes-Benz Daimler (Stuttgart, Germany)
Barclays (Leeds, UK)
Pepsi Co. Factory (Funza, Colombia)

BBC TV (Cardiff, Wales)
Hotel Ritz (Almaty, Kazakhstan)
Kyochon (New York, United States)
W hotel, Dubai (UAE)
Mercadona (Castellar del Valles, Spain)
Vodafone store (Barcelona, Spain)
Alhambra, Granada (Spain)
The Dubai Mall (Dubai, United Arab Emirates)
Water Cube (Beijing, China)
Atomium (Brussels, Belgium)
Palau Sant Jordi (Barcelona, Spain)
Millennium Medical Center Hospital (Doha, Qatar)
McDonald's (Amsterdam, The Netherlands)
Universal Studios (Sentosa, Singapore)

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We reserve the right to modify design and specifications without prior notice.



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