



Air Curtains

2017



AIRTECNICS: The Air Curtain Specialist



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.

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 +20 years
- Exporting +45 countries
- Catalogue +25 languages
- Experimented R+D+i
- Continuous improving
- Complete range, all applications
- University knowledge collaboration

www.airtecnicos.com

Find more information and our distributors list in our specialized air curtain websites:



Airtècnics headquarters in Castellar del Vallès (Spain)

| | | | |
|---------|--|------------|--|
| Bulgar | www.vazdushnizavesi.com | Latvian | www.gaisaaizkari.com |
| Catalan | www.cortinesaire.com | Lithuanian | www.oruzuolaidos.com |
| Czech | www.vzduchoveclony.com | Norwegian | www.luftporter.com |
| Danish | www.lufttaepper.com | Polish | www.kurtynapowietrzna.com |
| Dutch | www.luchtgordijnen.com | Portuguese | www.cortinadeaar.com |
| English | www.dooraircurtain.com | Romanian | www.perdeledeaar.com |
| Finnish | www.ilmaverho.com | Russian | www.vozdushnyezavesy.com |
| French | www.rideauxdair.com | Serbian | www.vazdusnezavesec.com |
| German | www.luftschieieranlagen.net | Slovenian | www.zracnezavesec.com |
| Greek | www.aerokourtines.com | Spanish | www.cortinasdeaire.es |
| Hungary | www.legfuggonyok.com | Swedish | www.luftridaer.com |
| Italian | www.barrieradaria.com | Turkish | www.havaperdeleri.eu |

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, with a total of 1.400 employees, 14 production sites on 4 continents, as well as 4 development centres. Rosenberg develops, produces and distributes its products worldwide.

Through a combination of human know how and innovative production technology Rosenberg products achieve a quality which meets the highest requirements.



Rosenberg headquarters in Künzelsau (Germany)



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.

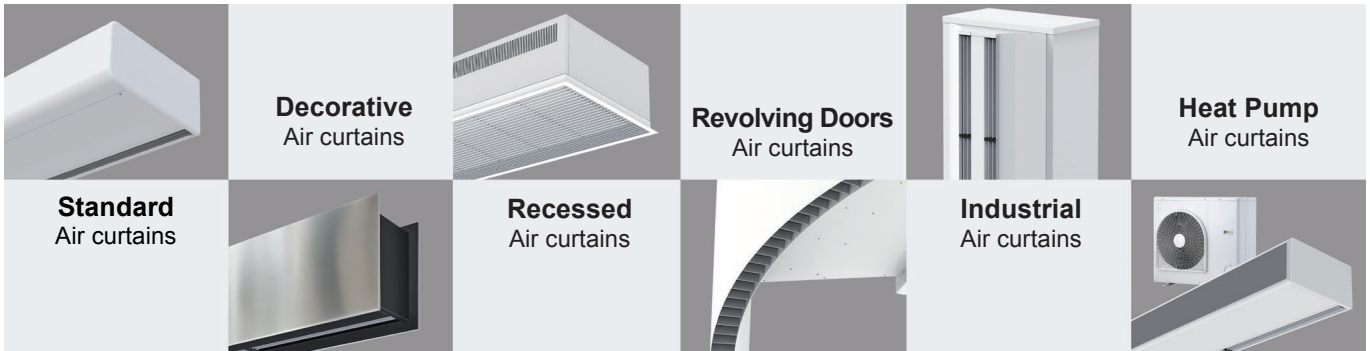
Airtècnics air curtains create an air stream layer over the doorway and act as an invisible barrier which efficiently divides the inside environment from the outside one. Therefore, it substantially reduces heating and cooling costs up to 80%, while increasing employees and clients comfort.

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 drop, strong winds, the door's location, stairs between floors, opposite doors, and the installation height have to be taken into consideration.

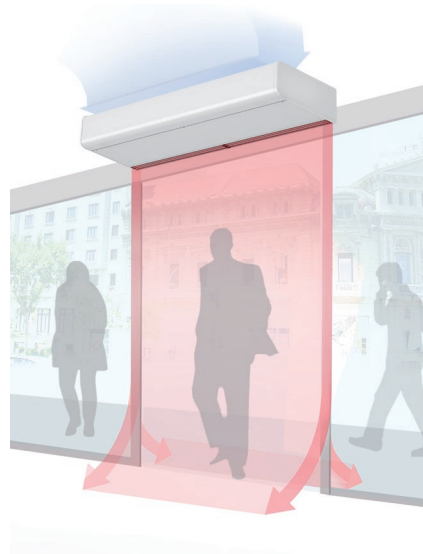
Our expert consultants with their extensive experience are at your disposal to help you choose.



Advantages

MAINTAIN:

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



PROTECT FROM:

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

Selection of an air curtain

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

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



WIDE RANGE

*Models and main characteristics
Selection and applications*

6



SMART

*Decorative high pressure for commercial
and industrial doors 2,5 - 4,2 m*

16-17



MINIBEL

Economical for openings up to 1,8 m

7



ZEN

*Customizable design with bespoke
panels for commercial doors 2,5 - 4,2 m*

18-19



OPTIMA WIRELESS

For commercial doors 2,2 - 2,8 m

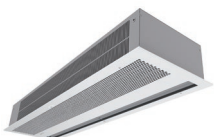
8



RUND

*Decorative cylindrical for vertical or
horizontal installation 2,5 - 4,2 m*

20-21



RECESSED OPTIMA WIRELESS

*For commercial doors
Recessed installation in false ceiling 2,2 - 2,8 m*

9



DECO

*Decorative with aluminium profiles
for commercial doors 2,5 - 4,2 m*

22-23



OPTIMA

For commercial doors 2,2 - 2,8 m

10



DAM

*High pressure for commercial doors
with front panel 2,5 - 4,2 m*

24-25



RECESSED OPTIMA

*For commercial doors
Recessed installation in false ceiling 2,2 - 2,8 m*

11



RECESSED DAM

*Compact recessed for commercial
and industrial doors 2,5 - 4,2 m*

26-27



WINDBOX M,G

*High pressure for commercial
and industrial doors 2,5 - 4,2 m*

12-13



HEAT PUMP AIR CURTAINS

*Energy saving and very low consumption
technology for commercial doors 2,5 - 4,2 m*

28-35



RECESSED WINDBOX

*High pressure for commercial doors
Recessed installation in false ceiling 2,5 - 4,2 m*

14-15











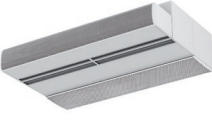






WINDBOX L,XL

*High pressure for commercial and
large industrial doors 4 - 7 m*

36-37



| | | | | | |
|---|---|-------|--|--|-------|
|  | <p>INVISAIR Recessed in column or bulkhead vertical or horizontal 2,5 - 4,2 m</p> | 38-39 |  | <p>ACCESSORIES SPECIAL OPTIONS Supports, valves, sensors, etc.</p> | 48 |
|  | <p>ROTOWIND Tailor made for revolving doors 2,5 - 4,2 m</p> | 40-41 |  | <p>POWER COEFFICIENTS Water heated air curtains at different water temperatures</p> | 49 |
|  | <p>VARIWIND Tailor made variable length VP or VW construction 2,5 - 4,2 m</p> | 42 |  | <p>EC TECHNOLOGY Centrifugal EC fans with very low consumption technology</p> | 50 |
|  | <p>RECESSED COMPACT Air only compact recessed for commercial and industrial doors 2,5 - 4,2m</p> | 43 |  | <p>REGULATION Basic regulation: standard controls Advanced regulation: Clever control</p> | 51-53 |
|  | <p>KOOL High velocity for cold store and freezer doors 2,5 - 4,2 m</p> | 44 |  | <p>GALLERY Installation pictures</p> | 54-55 |
|  | <p>TRIOJET SYSTEM Combination system with multijets for large cold stores 2 - 3 m</p> | 45 |  | <p>REFERENCES Clients brand names</p> | 56-59 |
|  | <p>MAXWELL Large industrial doors vertical or horizontal 4 - 6 m</p> | 46 |  | <p>DISTRIBUTORS Worldwide distributors</p> | 60-61 |
|  | <p>MAX Large industrial doors vertical or horizontal 4 - 6 m</p> | 47 | | | |



Applications

| Model | Kind | Recommended Installation Height (*) | Heating | | | Common Applications |
|--|---|---|--|--|--|--|
| | | | A | E | P | |
| Minibel | | Up to 1,8 m | • | • | | Kiosks, Fast Food and small sized shops. Restaurants and places with usually closed door or automatic door when low pedestrian flow. |
| Optima Wireless Recessed Optima Wireless Optima Recessed Optima | | 2,2 - 2,8 m | • | • | • | Small and medium sized premises. Restaurants, shops and places with a medium and high pedestrian flow. Creation of different environment zones. Protection against dust, fumes, pollutants and insects. False ceiling installations. Isolation and sealing of smoking areas. |
| Windbox Recessed Windbox Smart Zen Rund Deco Dam Recessed Dam Windbox DX Invisair Rotowind Variwind Recessed Compact (A) Kool (A) | M, ECM ECG | 2,5 - 3,5 m 3,0 - 3,8 m 3,2 - 4,2 m | • • | • • | • • | Medium and large sized premises with a high pedestrian flow. Protection against dust, fumes, pollutants and insects. Cold rooms. False ceiling installations. Isolation and sealing of smoking areas. |
| Triojet | | 2 - 3 m | | • | | Industrial doors for large cold rooms and freezers with very low temperatures or problems with ice production. |
| Windbox | L XL | 4 - 5 m 5 - 7 m | • • | • • | • • | Medium and large sized premises with a high pedestrian flow. Industrial doors. Protection against dust, fumes, pollutants and insects. Cold rooms. False ceiling installations. |
| Maxwell Max | | 4 - 6 m | • • | • • | • • | Industrial doors. Loading dock. Vertical Installation to one side of the door or at each side of the door. Horizontal Installation. |

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

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



Characteristics

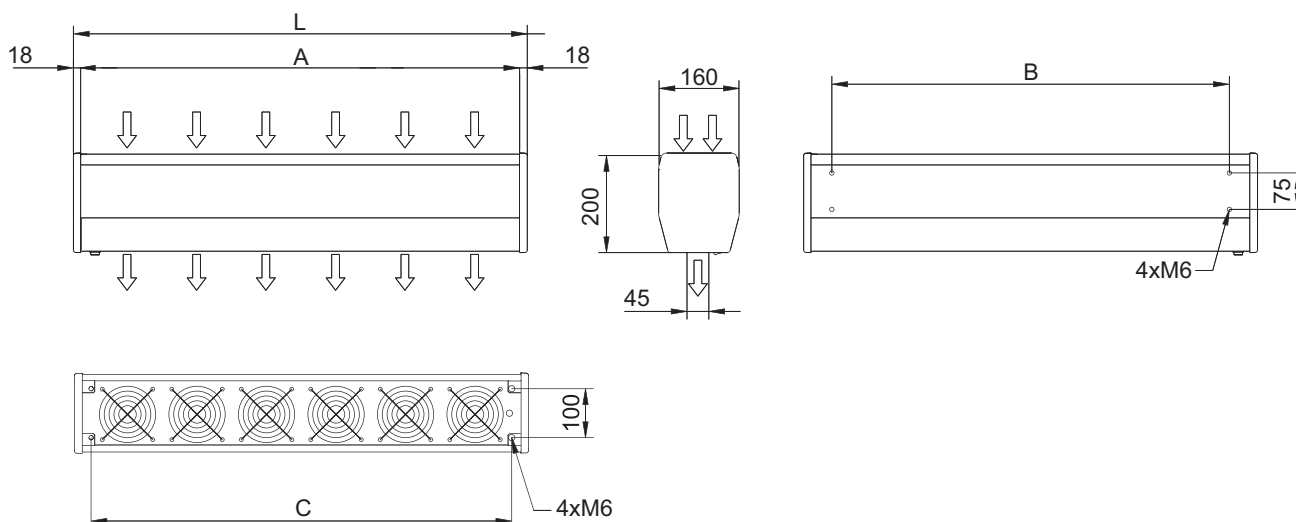


- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped.
- Compact axial fans, low noise level.
- “E” type with electrical shielded element. “A” type without heating, air only.
- Integrated switch for ventilation and heating control.
- Cable connection 1,5m length, integrated.
- Wall support included.

Specifications

| | | MIN 600 A | MIN 600 E230 | MIN 900 A | MIN 900 E230 |
|-------------------|-------|-----------|--------------|-----------|--------------|
| Power (fans) | W | 60 | 60 | 90 | 90 |
| Voltage (fans) | V | 230~1 | 230~1 | 230~1 | 230~1 |
| Current (fans) | A | 0,52 | 0,52 | 0,78 | 0,78 |
| Airflow | m³/h | 420 | 420 | 630 | 630 |
| Power (heating) | kW | - | 2,5 | - | 3,2 |
| Voltage (heating) | V | - | 230~1 | - | 230~1 |
| Current (heating) | A | - | 10,8 | - | 13,9 |
| Temperature Rise | °C | - | 18 | - | 15 |
| Weight | kg | 9 | 10 | 12,5 | 13,5 |
| Noise Level | dB(A) | 46 | 46 | 47 | 47 |

Dimensions



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



Characteristics



- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- “E” type with electrical shielded elements, two stages with integrated regulation.
- “A” type without heating, air only.
- Included regulation with infrared remote control and inbuilt keypad with leds.

Specifications

AIR ONLY

| Model | Airflow m ³ /h | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|--------------|------------------------------|------------------------------|--------------------------------|-------------------------------|--------------|
| OPT W 1000 A | 1500 | 80 | 0,41 | 35/50 | 17,5 |
| OPT W 1500 A | 2150 | 117 | 0,53 | 36/51 | 25,5 |
| OPT W 2000 A | 2900 | 160 | 0,82 | 38/53 | 33 |

ELECTRICAL HEATED

| Model | Airflow m ³ /h | Electrical Heating Capacity kW | Power Supply | Maximum Electrical Heating Current A | Power Fans Heating 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-------------------|------------------------------|-----------------------------------|--------------|---|--------------------------------------|--------------------------------|-------------------------------|--------------|
| OPT W 1000 E | 1500 | 4/6 | 400Vx3 | 8,7 | 80 | 0,41 | 35/50 | 20,5 |
| OPT W 1000 E230 | 1500 | 3,8/5,6 | 230Vx1 | 24,5 | 80 | 0,41 | 35/50 | 20,5 |
| OPT W 1500 E | 2150 | 6/9 | 400Vx3 | 13,0 | 117 | 0,53 | 36/51 | 27,5 |
| OPT W 1500 E230-6 | 2150 | 3,8/5,6 | 230Vx1 | 24,5 | 117 | 0,53 | 36/51 | 27,5 |
| OPT W 1500 E230-9 | 2150 | 6/9 | 230Vx1 (*) | 39,1 | 117 | 0,53 | 36/51 | 27,5 |
| OPT W 2000 E | 2900 | 5,6/11,3 | 400Vx3 | 16,3 | 160 | 0,82 | 38/53 | 42 |
| OPT W 2000 E230 | 2900 | 5,6/11,3 | 230Vx1 (*) | 49,1 | 160 | 0,82 | 38/53 | 42 |

(*) 2 separated power supplies.

Dimensions

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

(*) Manual regulation using inbuilt keypad or by infrared remote control



Characteristics



- Self-supporting casing construction made of galvanized steel plate, ready to be installed recessed in a false ceiling.
- Inlet grille panel (free of maintenance) integrated in a single frame colour white RAL 9016 or black RAL 9005. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- “E” type with electrical shielded elements, two stages with integrated regulation.
- “A” type without heating, air only.
- Included regulation with infrared remote control and inbuilt keypad with leds.

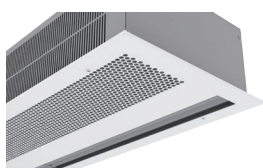
Specifications

| AIR ONLY | | | | | |
|-------------|------------------------------|------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m ³ /h | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| RO W 1000 A | 1700 | 80 | 0,41 | 35/50 | 23 |
| RO W 1500 A | 2200 | 117 | 0,53 | 36/51 | 33 |
| RO W 2000 A | 3200 | 160 | 0,82 | 38/53 | 43 |

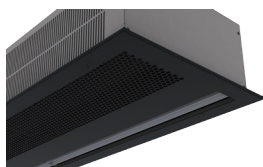
| ELECTRICAL HEATED | | | | | | | | |
|-------------------|------------------------------|-----------------------------------|--------------|---|------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m ³ /h | Electrical Heating Capacity kW | Power Supply | Maximum Electrical Heating Current A | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| RO W 1000 E | 1700 | 4/6 | 400Vx3 | 8,7 | 80 | 0,41 | 35/50 | 25 |
| RO W 1000 E230 | 1700 | 3,8/5,6 | 230Vx1 | 24,5 | 80 | 0,41 | 35/50 | 25 |
| RO W 1500 E | 2200 | 6/9 | 400Vx3 | 13,0 | 117 | 0,53 | 36/51 | 36 |
| RO W 1500 E230-6 | 2200 | 3,8/5,6 | 230Vx1 | 24,5 | 117 | 0,53 | 36/51 | 36 |
| RO W 1500 E230-9 | 2200 | 6/9 | 230Vx1 (*) | 39,1 | 117 | 0,53 | 36/51 | 36 |
| RO W 2000 E | 3200 | 5,6/11,3 | 400Vx3 | 16,3 | 160 | 0,82 | 38/53 | 51 |
| RO W 2000 E230 | 3200 | 5,6/11,3 | 230Vx1 (*) | 49,1 | 160 | 0,82 | 38/53 | 51 |

(*) 2 separated power supplies.

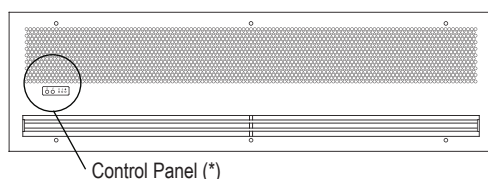
Dimensions and Finishes



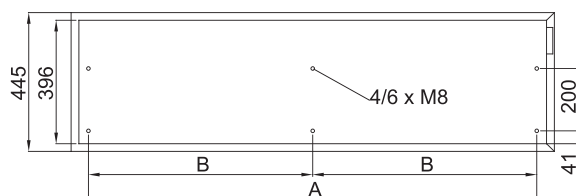
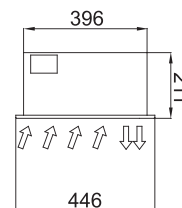
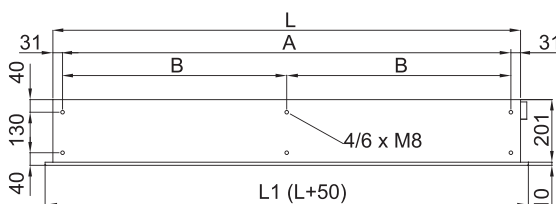
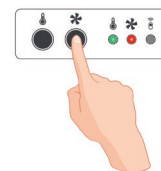
White Finish
RAL 9016



Black Finish
RAL 9005



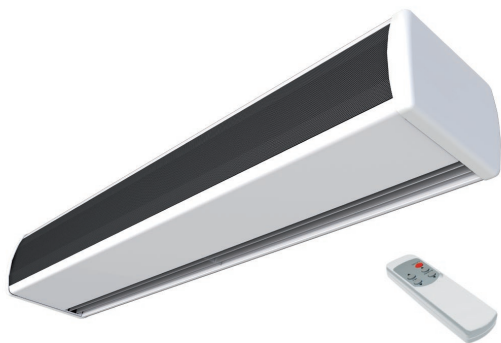
(*) Manual regulation using inbuilt keypad or by infrared remote control



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



Characteristics



- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- “P” type with water heated coil. “E” type with electrical shielded elements, two stages with integrated regulation. “A” type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|-----------------|------------------------------|--------------------------------|-------------------------------|--------------|
| OPT 1000 A | 1500 | 80 | 0,41 | 35/50 | 17,5 |
| OPT 1500 A | 2150 | 117 | 0,53 | 36/51 | 25,5 |
| OPT 2000 A | 2900 | 160 | 0,82 | 38/53 | 33 |

WATER HEATED P86

| Model | Airflow m³/h | Heating capacity 80/60°C kW | Water Drop Pressure Pa | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|-----------------|-----------------------------------|------------------------------|------------------------------|--------------------------------|-------------------------------|--------------|
| OPT 1000 P | 1400 | 8,2 | 7090 | 80 | 0,41 | 37/51 | 20,5 |
| OPT 1500 P | 2100 | 12,7 | 7200 | 117 | 0,53 | 38/52 | 27,5 |
| OPT 2000 P | 2750 | 16,7 | 6550 | 160 | 0,82 | 40/54 | 37,5 |

ELECTRICAL HEATED

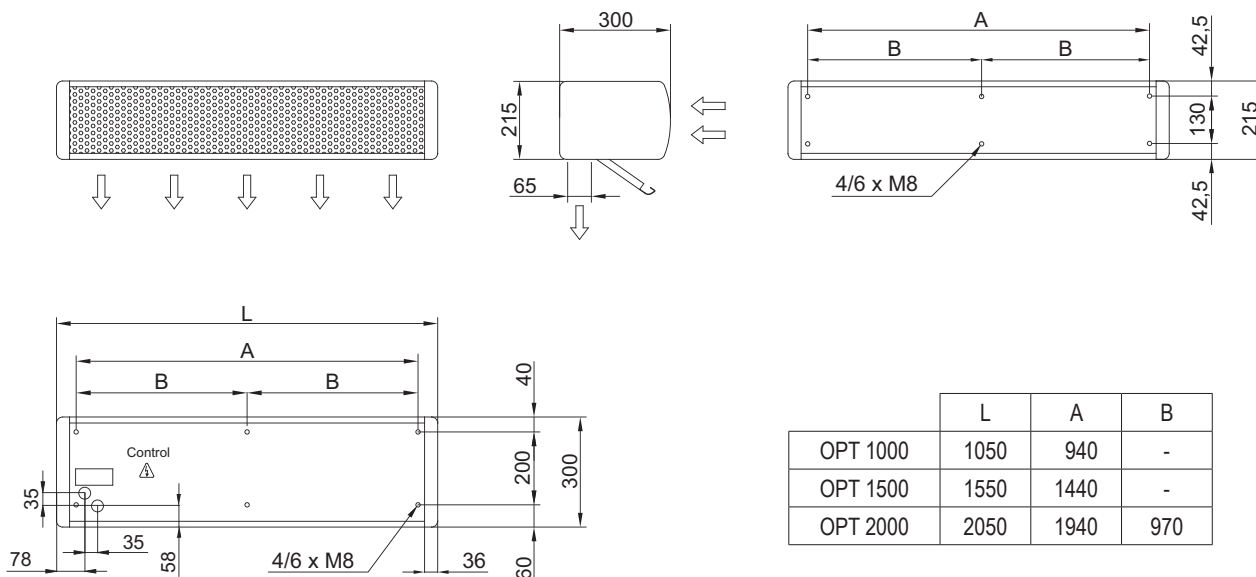
| Model | Airflow m³/h | Electrical Heating Capacity (*) kW | Power Supply | Maximum Electrical Heating Current A | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|-----------------|--|--------------|--|------------------------------|--------------------------------|-------------------------------|--------------|
| OPT 1000 E | 1500 | 4/6 | 400Vx3 | 8,7 | 80 | 0,41 | 35/50 | 20,5 |
| OPT 1000 E-9 | 1500 | 6/9 | 400Vx3 | 13,0 | 80 | 0,41 | 35/50 | 21,5 |
| OPT 1000 E230 | 1500 | 3,8/5,6 | 230Vx1 | 24,5 | 80 | 0,41 | 35/50 | 20,5 |
| OPT 1500 E | 2150 | 6/9 | 400Vx3 | 13,0 | 117 | 0,53 | 36/51 | 27,5 |
| OPT 1500 E230-6 | 2150 | 3,8/5,6 | 230Vx1 | 24,5 | 117 | 0,53 | 36/51 | 27,5 |
| OPT 1500 E230-9 | 2150 | 6/9 | 230Vx1 (**) | 39,1 | 117 | 0,53 | 36/51 | 27,5 |
| OPT 2000 E | 2900 | 5,6/11,3 | 400Vx3 | 16,3 | 160 | 0,82 | 38/53 | 42 |
| OPT 2000 E230 | 2900 | 5,6/11,3 | 230Vx1 (**) | 49,1 | 160 | 0,82 | 38/53 | 42 |

Water heated: connection pipes 1/2" female. 2 rows coil.

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

(**) 2 separated power supplies.

Dimensions



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



Characteristics



- Self-supporting casing construction made of galvanized steel plate, ready to be installed recessed in a false ceiling.
- Inlet grille (free of maintenance) made with aluminium profiles and blow-out nozzle, integrated in a single white frame colour RAL 9016. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped.
- Low noise twisted cross-flow fans driven by a 2-speed external rotor motor.
- "P" type with water heated coil. "E" type with electrical shielded elements, two stages with integrated regulation. "A" type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control.
Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------|-----------------|---------------------------------|-----------------------------------|----------------------------------|--------------|
| RO 1000 A | 1700 | 80 | 0,41 | 35/50 | 24 |
| RO 1500 A | 2200 | 117 | 0,53 | 36/51 | 34 |
| RO 2000 A | 3200 | 160 | 0,82 | 38/53 | 44,5 |

WATER HEATED P86

| Model | Airflow m³/h | Heating capacity 80/60°C kW | Water Drop Pressure Pa | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------|-----------------|--------------------------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------------------|--------------|
| RO 1000 P | 1450 | 8,3 | 7360 | 80 | 0,41 | 37/51 | 26,5 |
| RO 1500 P | 2175 | 13 | 7480 | 117 | 0,53 | 38/52 | 37,5 |
| RO 2000 P | 2850 | 17,1 | 6810 | 160 | 0,82 | 40/54 | 49 |

ELECTRICAL HEATED

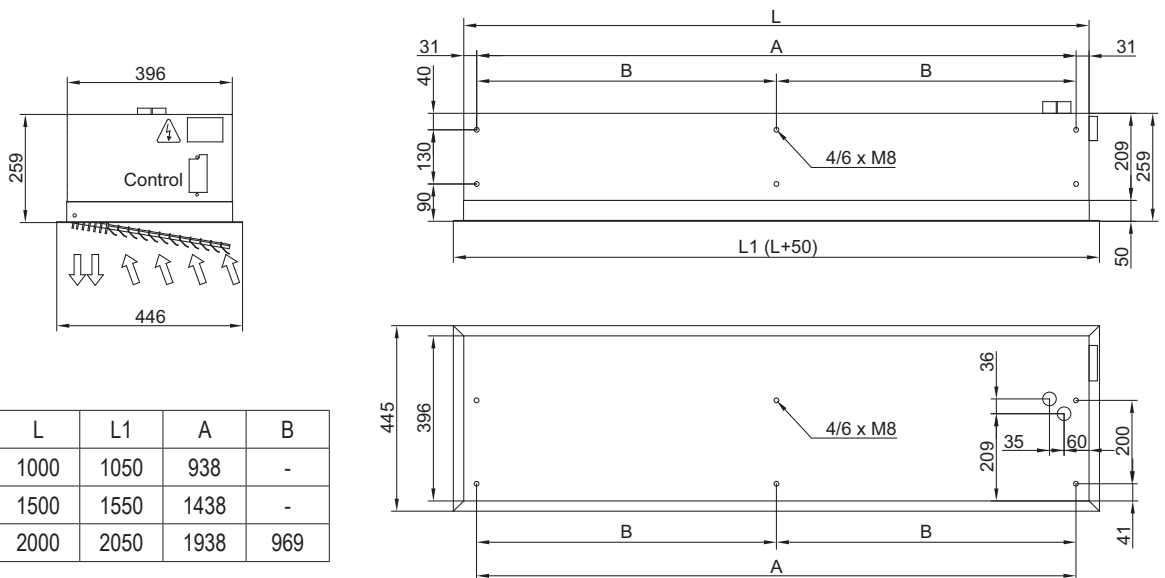
| Model | Airflow m³/h | Electrical Heating Capacity (*) kW | Power Supply | Maximum Electrical Heating Current A | Power Fans 230V-50Hz W | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|----------------|-----------------|---|-----------------|---|---------------------------------|-----------------------------------|----------------------------------|--------------|
| RO 1000 E | 1700 | 4/6 | 400Vx3 | 8,7 | 80 | 0,41 | 35/50 | 26 |
| RO 1000 E-9 | 1700 | 6/9 | 400Vx3 | 13,0 | 80 | 0,41 | 35/50 | 27 |
| RO 1000 E230 | 1700 | 3,8/5,6 | 230Vx1 | 24,5 | 80 | 0,41 | 35/50 | 26 |
| RO 1500 E | 2200 | 6/9 | 400Vx3 | 13,0 | 117 | 0,53 | 36/51 | 37,5 |
| RO 1500 E230-6 | 2200 | 3,8/5,6 | 230Vx1 | 24,5 | 117 | 0,53 | 36/51 | 37,5 |
| RO 1500 E230-9 | 2200 | 6/9 | 230Vx1 (**) | 39,1 | 117 | 0,53 | 36/51 | 37,5 |
| RO 2000 E | 3200 | 5,6/11,3 | 400Vx3 | 16,3 | 160 | 0,82 | 38/53 | 53,5 |
| RO 2000 E230 | 3200 | 5,6/11,3 | 230Vx1 (**) | 49,1 | 160 | 0,82 | 38/53 | 53,5 |

Water heated: connection pipes 1/2" female. 2 rows coil.

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

(**) 2 separated power supplies.

Dimensions



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



Characteristics



- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| M 1000 A | 1800 | 0,212 | 0,94 | 55 | 31 |
| M 1500 A | 2700 | 0,318 | 1,41 | 56 | 46 |
| M 2000 A | 3600 | 0,424 | 1,88 | 57 | 58 |
| M 2500 A | 4500 | 0,530 | 2,35 | 58 | 72 |
| M 3000 A | 5400 | 0,636 | 2,82 | 59 | 86 |
| ECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 31 |
| ECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 46 |
| ECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 58 |
| ECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 72 |
| ECM 3000 A | 5520 | 0,396 | 3,42 | 60 | 86 |
| G 1000 A | 2400 | 0,642 | 2,85 | 57 | 43 |
| G 1500 A | 3200 | 0,856 | 3,80 | 58 | 51 |
| G 2000 A | 4800 | 1,284 | 5,70 | 59 | 80 |
| G 2500 A | 5600 | 1,498 | 6,65 | 60 | 84 |
| G 3000 A | 6400 | 1,712 | 7,60 | 61 | 95 |
| ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 43 |
| ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 51 |
| ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 80 |
| ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 84 |
| ECG 3000 A | 7200 | 0,600 | 5,20 | 65 | 95 |

ELECTRICAL HEATED

| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|-----------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| M 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 55 | 37 |
| M 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 56 | 57 |
| M 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 57 | 75 |
| M 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 58 | 94 |
| M 3000 E | 5400 | 8/16/24 | 0,636 | 2,82 | 59 | 112 |
| ECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 56 | 37 |
| ECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 57 | 57 |
| ECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 58 | 75 |
| ECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 59 | 94 |
| ECM 3000 E | 5520 | 8/16/24 | 0,396 | 3,42 | 60 | 112 |
| G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 52 |
| G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 63 |
| G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 100 |
| G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 106 |
| G 3000 E | 6400 | 10/20/30 | 1,712 | 7,60 | 61 | 120 |
| ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 52 |
| ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 63 |
| ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 100 |
| ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 106 |
| ECG 3000 E | 7200 | 10/20/30 | 0,600 | 5,20 | 65 | 120 |

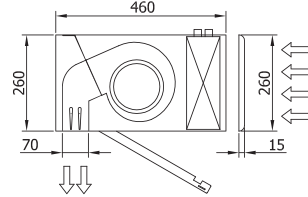
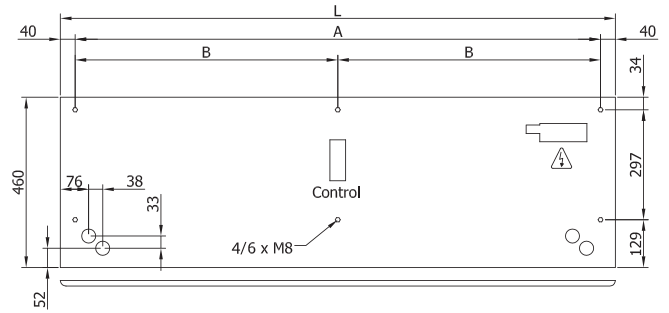
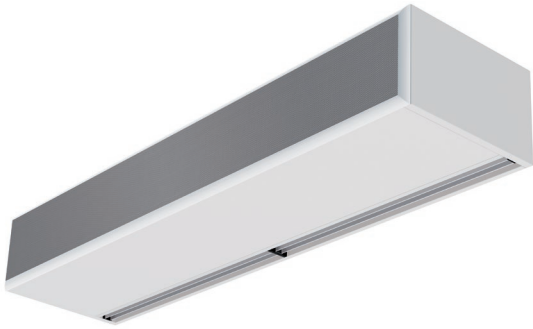
WATER HEATED

| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|-----------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Heating capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| M 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 56 | 35 |
| M 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 57 | 53 |
| M 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 58 | 69 |
| M 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 59 | 86 |
| M 3000 P | 4980 | 33,24 | 6590 | 28,37 | 6760 | 29,77 | 5660 | 1,280 | 5,70 | 60 | 103 |
| ECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 56 | 35 |
| ECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 P | 5160 | 40,00 | 6860 | 29,05 | 7050 | 30,54 | 5920 | 0,396 | 3,42 | 60 | 103 |
| G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 50 |
| G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 59 |
| G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 92 |
| G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 96 |
| G 3000 P | 6000 | 37,35 | 8110 | 32,10 | 8410 | 34,03 | 7180 | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 P | 6800 | 40,34 | 9290 | 34,81 | 9710 | 37,16 | 8400 | 0,600 | 5,20 | 65 | 109 |

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.

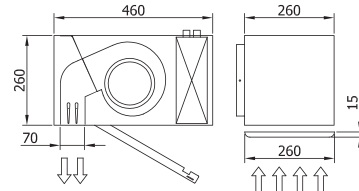
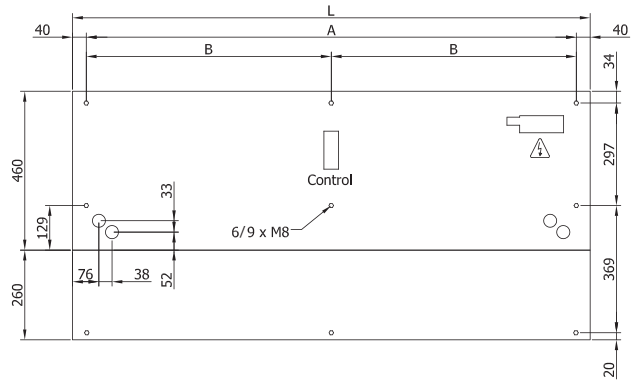


Layouts and dimensions



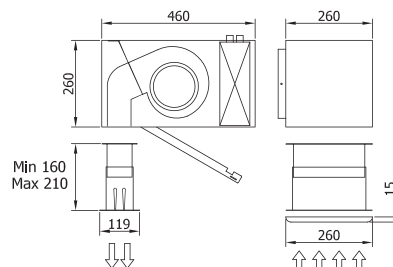
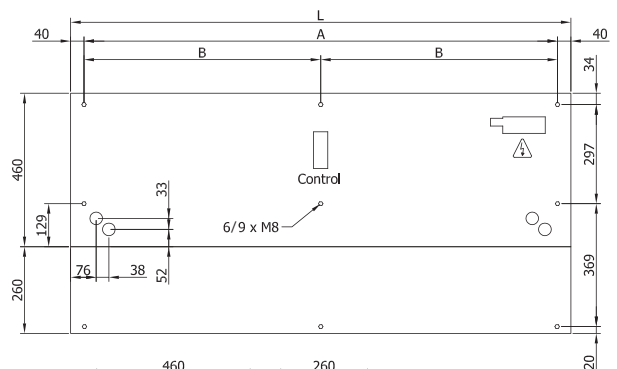
| L | A | B |
|------|------|------|
| 1000 | 920 | - |
| 1500 | 1420 | 710 |
| 2000 | 1920 | 960 |
| 2500 | 2420 | 1210 |
| 3000 | 2920 | 1460 |

Free hanging mounting



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

Inside ceiling surface mounting



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

False ceiling invisible mounting



Characteristics



- Self-supporting casing construction made of galvanized steel plate, ready to be installed recessed in a false ceiling.
- Inlet grille (free of maintenance) made with aluminium profiles and blow-out nozzle, integrated in a single white frame colour RAL 9016. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable in both directions.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|-------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m ³ /h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| RM 1000 A | 1800 | 0,212 | 0,94 | 55 | 57 |
| RM 1500 A | 2700 | 0,318 | 1,41 | 56 | 85 |
| RM 2000 A | 3600 | 0,424 | 1,88 | 57 | 109 |
| RM 2500 A | 4500 | 0,530 | 2,35 | 58 | 137 |
| RECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 57 |
| RECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 85 |
| RECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 109 |
| RECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 137 |
| RG 1000 A | 2400 | 0,642 | 2,85 | 57 | 61 |
| RG 1500 A | 3200 | 0,856 | 3,80 | 58 | 90 |
| RG 2000 A | 4800 | 1,284 | 5,70 | 59 | 118 |
| RG 2500 A | 5600 | 1,498 | 6,65 | 60 | 145 |
| RECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 61 |
| RECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 90 |
| RECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 118 |
| RECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 145 |

| ELECTRICAL HEATED | | | | | | |
|-------------------|------------------------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m ³ /h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| RM 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 55 | 65 |
| RM 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 56 | 98 |
| RM 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 57 | 130 |
| RM 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 58 | 162 |
| RECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 56 | 65 |
| RECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 57 | 98 |
| RECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 58 | 130 |
| RECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 59 | 162 |
| RG 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 70 |
| RG 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 104 |
| RG 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 140 |
| RG 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 172 |
| RECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 70 |
| RECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 104 |
| RECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 140 |
| RECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 172 |

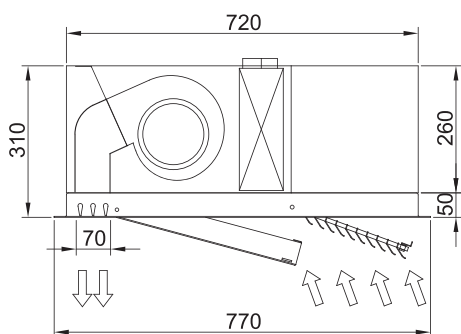
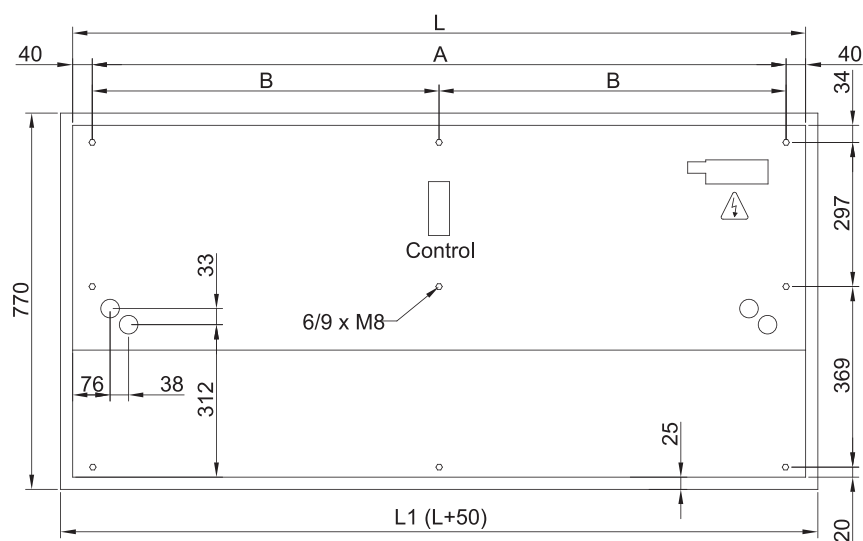
WATER HEATED

| Model | Airflow m ³ /h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-------------|------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Heating capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| RM 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 56 | 63 |
| RM 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 57 | 93 |
| RM 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 58 | 122 |
| RM 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 59 | 153 |
| RECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 56 | 63 |
| RECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 57 | 93 |
| RECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 58 | 122 |
| RECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 59 | 153 |
| RG 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 67 |
| RG 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 98 |
| RG 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 131 |
| RG 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 163 |
| RECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 67 |
| RECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 98 |
| RECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 131 |
| RECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 163 |

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.



Dimensions



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



Characteristics



- Stylish, discreet and contemporary design adaptive to any interior architecture.
- Smooth front panel can be customized with logotypes, lighting, lettering or safety and informative signals, according to the client requirements.
- Self-supporting steel rounded casing with edgeless plastic side covers, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Hidden top air entrance, avoiding the inside view of the unit and the inlet grille.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m ³ /h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| SMART M 1000 A | 1800 | 0,212 | 0,94 | 53 | 34 |
| SMART M 1500 A | 2700 | 0,318 | 1,41 | 54 | 50 |
| SMART M 2000 A | 3600 | 0,424 | 1,88 | 55 | 62 |
| SMART M 2500 A | 4500 | 0,530 | 2,35 | 56 | 66 |
| SMART M 3000 A | 5400 | 0,636 | 2,82 | 57 | 76 |
| SMART ECM 1000 A | 1840 | 0,132 | 1,14 | 54 | 34 |
| SMART ECM 1500 A | 2760 | 0,198 | 1,71 | 55 | 50 |
| SMART ECM 2000 A | 3680 | 0,264 | 2,28 | 56 | 62 |
| SMART ECM 2500 A | 4600 | 0,330 | 2,85 | 57 | 66 |
| SMART ECM 3000 A | 5520 | 0,396 | 3,42 | 58 | 76 |
| SMART G 1000 A | 2400 | 0,642 | 2,85 | 55 | 38 |
| SMART G 1500 A | 3200 | 0,856 | 3,80 | 56 | 55 |
| SMART G 2000 A | 4800 | 1,284 | 5,70 | 57 | 72 |
| SMART G 2500 A | 5600 | 1,498 | 6,65 | 58 | 76 |
| SMART G 3000 A | 6400 | 1,712 | 7,60 | 59 | 86 |
| SMART ECG 1000 A | 2700 | 0,225 | 1,95 | 59 | 38 |
| SMART ECG 1500 A | 3600 | 0,300 | 2,60 | 60 | 55 |
| SMART ECG 2000 A | 5400 | 0,450 | 3,90 | 61 | 72 |
| SMART ECG 2500 A | 6300 | 0,525 | 4,55 | 62 | 76 |
| SMART ECG 3000 A | 7200 | 0,600 | 5,20 | 63 | 86 |

ELECTRICAL HEATED

| Model | Airflow m ³ /h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------------|------------------------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| SMART M 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 53 | 41 |
| SMART M 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 54 | 62 |
| SMART M 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 55 | 80 |
| SMART M 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 56 | 86 |
| SMART M 3000 E | 5400 | 8/16/24 | 0,636 | 2,82 | 57 | 99 |
| SMART ECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 54 | 41 |
| SMART ECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 55 | 62 |
| SMART ECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 56 | 80 |
| SMART ECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 57 | 86 |
| SMART ECM 3000 E | 5520 | 8/16/24 | 0,396 | 3,42 | 58 | 99 |
| SMART G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 55 | 46 |
| SMART G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 56 | 68 |
| SMART G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 57 | 90 |
| SMART G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 58 | 96 |
| SMART G 3000 E | 6400 | 10/20/30 | 1,712 | 7,60 | 59 | 109 |
| SMART ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 59 | 46 |
| SMART ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 60 | 68 |
| SMART ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 61 | 90 |
| SMART ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 62 | 96 |
| SMART ECG 3000 E | 7200 | 10/20/30 | 0,600 | 5,20 | 63 | 109 |

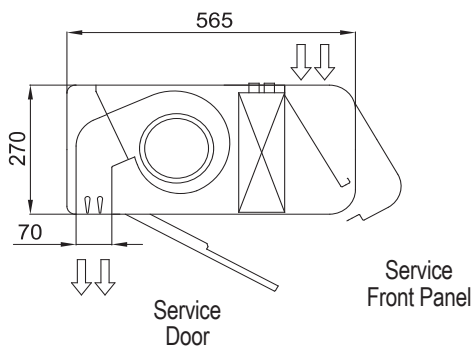
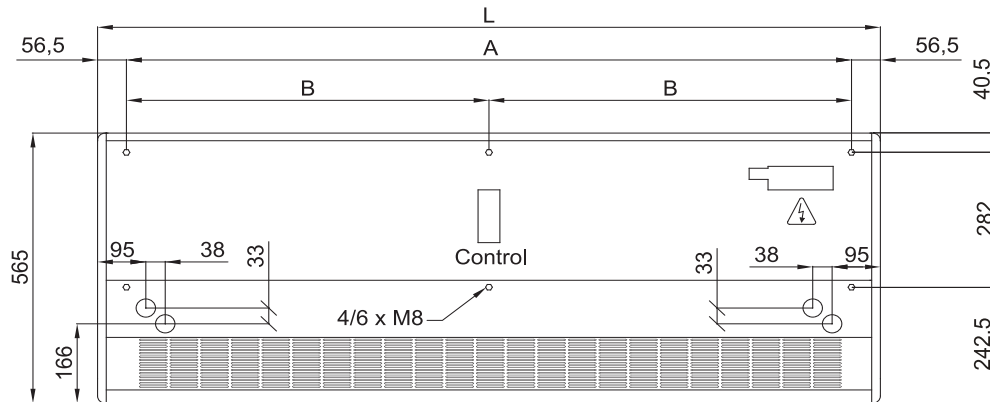
WATER HEATED

| Model | Airflow m ³ /h | P86 | | | P64 | | | P54 | | | Noise Level (5 m) dB(A) | Weight kg |
|------------------|------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|----|-------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | | | |
| SMART M 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 54 | 39 | |
| SMART M 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 55 | 58 | |
| SMART M 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 56 | 73 | |
| SMART M 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 57 | 79 | |
| SMART M 3000 P | 4980 | 33,24 | 6590 | 28,37 | 6760 | 29,77 | 5660 | 1,280 | 5,70 | 58 | 91 | |
| SMART ECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 54 | 39 | |
| SMART ECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 55 | 58 | |
| SMART ECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 56 | 73 | |
| SMART ECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 57 | 79 | |
| SMART ECM 3000 P | 5160 | 40,00 | 6860 | 29,05 | 7050 | 30,54 | 5920 | 0,396 | 3,42 | 58 | 91 | |
| SMART G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 55 | 44 | |
| SMART G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 56 | 64 | |
| SMART G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 57 | 83 | |
| SMART G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 58 | 87 | |
| SMART G 3000 P | 6000 | 37,35 | 8110 | 32,10 | 8410 | 34,03 | 7180 | 1,712 | 7,60 | 59 | 99 | |
| SMART ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 59 | 44 | |
| SMART ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 60 | 64 | |
| SMART ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 61 | 83 | |
| SMART ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 62 | 87 | |
| SMART ECG 3000 P | 6800 | 40,34 | 9290 | 34,81 | 9710 | 37,16 | 8400 | 0,600 | 5,20 | 63 | 99 | |

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



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 |

Finishes and Details





Characteristics



- Decorative air curtain in contemporary architectural style. Its minimalist and smart design integrates in any environment and offers infinite options to customize.
- Can include personalized logotypes, signs or graphic designs. It can even incorporate clocks or lighting.
- Front anodized aluminium panels. Optionally manufactured in brushed or mirror polished stainless steel. Other materials are possible, such as wood, metal, etc.
- Central structure made of galvanized steel finished in black forge as standard. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable in both directions.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|----------------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| ZEN M 1000 A | 1980 | 0,318 | 1,41 | 55 | 32 |
| ZEN M 1500 A | 2640 | 0,424 | 1,88 | 56 | 46 |
| ZEN M 2000 A | 3960 | 0,636 | 2,82 | 57 | 62 |
| ZEN M 2500 A | 4620 | 0,742 | 3,29 | 58 | 75 |
| ZEN G 1000 A | 2400 | 0,642 | 2,85 | 57 | 36 |
| ZEN G 1500 A | 3200 | 0,856 | 3,80 | 58 | 50 |
| ZEN G 2000 A | 4800 | 1,284 | 5,70 | 59 | 69 |
| ZEN G 2500 A | 5600 | 1,498 | 6,65 | 60 | 83 |
| ZEN ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 36 |
| ZEN ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 50 |
| ZEN ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 69 |
| ZEN ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 83 |

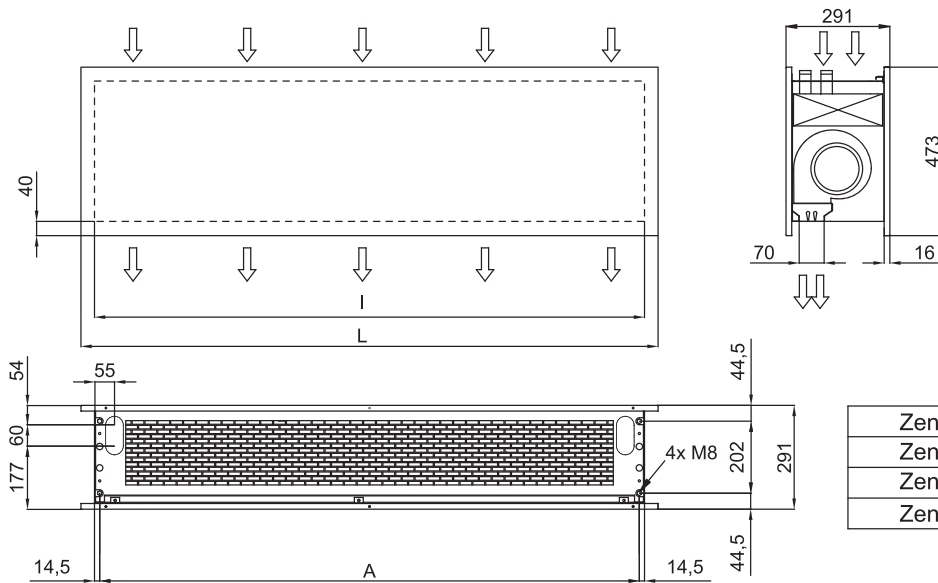
| ELECTRICAL HEATED | | | | | | |
|-------------------|-----------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| ZEN M 1000 E | 1980 | 3/6/9 | 0,318 | 1,41 | 55 | 40 |
| ZEN M 1500 E | 2640 | 4/8/12 | 0,424 | 1,88 | 56 | 58 |
| ZEN M 2000 E | 3960 | 6/12/18 | 0,636 | 2,82 | 57 | 77 |
| ZEN M 2500 E | 4620 | 6/12/18 | 0,742 | 3,29 | 58 | 94 |
| ZEN G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 43 |
| ZEN G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 62 |
| ZEN G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 85 |
| ZEN G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 103 |
| ZEN ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 43 |
| ZEN ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 62 |
| ZEN ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 85 |
| ZEN ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 103 |

| WATER HEATED | | | | | | | | | | | |
|----------------|-----------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| ZEN M 1000 P | 1860 | 9,84 | 1000 | 9,22 | 4990 | - | - | 0,318 | 1,41 | 55 | 37 |
| ZEN M 1500 P | 2480 | 14,23 | 760 | 13,65 | 6430 | - | - | 0,424 | 1,88 | 56 | 53 |
| ZEN M 2000 P | 3720 | 22,17 | 2190 | 19,70 | 5470 | - | - | 0,636 | 2,82 | 57 | 71 |
| ZEN M 2500 P | 4340 | 27,69 | 4000 | 23,48 | 4060 | - | - | 0,742 | 3,29 | 58 | 86 |
| ZEN G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 40 |
| ZEN G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 57 |
| ZEN G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 78 |
| ZEN G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 95 |
| ZEN ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 40 |
| ZEN ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 57 |
| ZEN ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 78 |
| ZEN ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 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.



Dimensions



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

Finishes



| | |
|--|-----------------------|
| | standard / painted |
| | decorative metals |
| | crocco / leather |
| | screen |
| | floral |
| | wood |
| | logos / signage |

Examples of customized front panels, to meet client needs



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



Characteristics



- Decorative rounded air curtain for vertical or horizontal installation.
- Faceted self-supporting casing construction made of galvanized plated steel, finished in structural epoxy-polyester painting white RAL9016 or silver grey RAL9006 as standard. Other colours or stainless steel are available on request.
- Large perforated inlet grille avoiding intensive maintenance.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans | Current Fans | Noise Level | Weight kg |
|-----------------|-----------------|-----------------|----------------|----------------|--------------|
| | | 230V-50Hz kW | 230V-50Hz A | (5 m) dB(A) | |
| RUND M 1000 A | 1980 | 0,318 | 1,41 | 55 | 42 |
| RUND M 1500 A | 2640 | 0,424 | 1,88 | 56 | 63 |
| RUND M 2000 A | 3960 | 0,636 | 2,82 | 57 | 79 |
| RUND M 2500 A | 4620 | 0,742 | 3,29 | 58 | 88 |
| RUND M 3000 A | 5280 | 0,848 | 3,76 | 59 | 99 |
| RUND G 1000 A | 2400 | 0,642 | 2,85 | 57 | 46 |
| RUND G 1500 A | 3200 | 0,856 | 3,80 | 58 | 68 |
| RUND G 2000 A | 4800 | 1,284 | 5,70 | 59 | 89 |
| RUND G 2500 A | 5600 | 1,498 | 6,65 | 60 | 98 |
| RUND G 3000 A | 6400 | 1,712 | 7,60 | 61 | 108 |
| RUND ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 46 |
| RUND ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 68 |
| RUND ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 89 |
| RUND ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 98 |
| RUND ECG 3000 A | 7200 | 0,600 | 5,20 | 65 | 108 |

ELECTRICAL HEATED

| Model | Airflow m³/h | Electrical Heating Capacity | Power Fans | Current Fans | Noise Level | Weight kg |
|-----------------|-----------------|-----------------------------|-----------------|----------------|----------------|--------------|
| | | 400Vx3-50Hz kW | 230V-50Hz kW | 230V-50Hz A | (5 m) dB(A) | |
| RUND M 1000 E | 1980 | 3/6/9 | 0,318 | 1,41 | 55 | 49 |
| RUND M 1500 E | 2640 | 4/8/12 | 0,424 | 1,88 | 56 | 75 |
| RUND M 2000 E | 3960 | 6/12/18 | 0,636 | 2,82 | 57 | 97 |
| RUND M 2500 E | 4620 | 6/12/18 | 0,742 | 3,29 | 58 | 108 |
| RUND M 3000 E | 5280 | 8/16/24 | 0,848 | 3,76 | 59 | 119 |
| RUND G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 54 |
| RUND G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 81 |
| RUND G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 107 |
| RUND G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 118 |
| RUND G 3000 E | 6400 | 10/20/30 | 1,712 | 7,60 | 61 | 128 |
| RUND ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 54 |
| RUND ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 81 |
| RUND ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 107 |
| RUND ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 118 |
| RUND ECG 3000 E | 7200 | 10/20/30 | 0,600 | 5,20 | 65 | 128 |

WATER HEATED

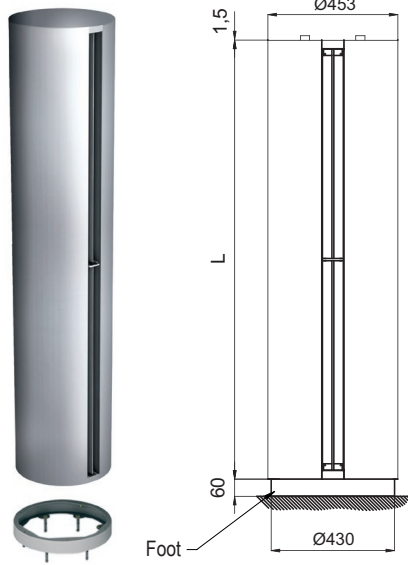
| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|-----------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| | | RUND M 1000 P | 1860 | 9,84 | 1000 | 9,22 | 4990 | | | | |
| RUND M 1500 P | 2480 | 14,23 | 760 | 13,65 | 6430 | - | - | 0,424 | 1,88 | 56 | 71 |
| RUND M 2000 P | 3720 | 22,17 | 2190 | 19,70 | 5470 | - | - | 0,636 | 2,82 | 57 | 90 |
| RUND M 2500 P | 4340 | 27,69 | 4000 | 23,48 | 4060 | - | - | 0,742 | 3,29 | 58 | 101 |
| RUND M 3000 P | 4960 | 33,15 | 6560 | 28,29 | 6730 | - | - | 0,848 | 3,76 | 59 | 112 |
| RUND G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 52 |
| RUND G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 77 |
| RUND G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 100 |
| RUND G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 109 |
| RUND G 3000 P | 6000 | 37,35 | 8110 | 32,10 | 8410 | 34,03 | 7180 | 1,712 | 7,60 | 61 | 119 |
| RUND ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 52 |
| RUND ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 77 |
| RUND ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 100 |
| RUND ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 109 |
| RUND ECG 3000 P | 6800 | 40,34 | 9290 | 34,81 | 9710 | 37,16 | 8400 | 0,600 | 5,20 | 65 | 119 |

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

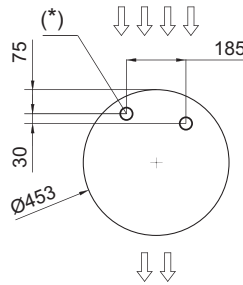


Layouts and dimensions

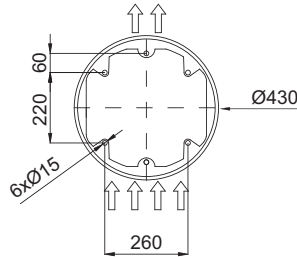
Vertical installation



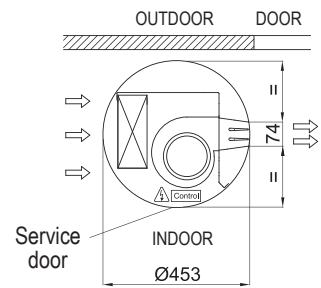
Water pipes top entrance



Floor fixing points with foot



Standard installation (vertical left side)



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

Horizontal installation



Ceiling fixation through threaded rods



Wall/ceiling fixation through arms



Wall/ceiling fixation through angle supports



Wall fixation through lateral arms



Floor fixation (goalpost)



Characteristics



- Structure made of aluminium profiles and galvanized plated steel panels, finished in structural epoxy-polyester white RAL 9016 or silver grey RAL 9006 as standard. Other colours are available on request.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|-------------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| DM 1000 A | 1800 | 0,212 | 0,94 | 55 | 51 |
| DM 1500 A | 2700 | 0,318 | 1,41 | 56 | 75 |
| DM 2000 A | 3600 | 0,424 | 1,88 | 57 | 96 |
| DM 2500 A | 4500 | 0,530 | 2,35 | 58 | 108 |
| DECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 51 |
| DECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 75 |
| DECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 96 |
| DECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 108 |
| DG 1000 A | 2400 | 0,642 | 2,85 | 57 | 55 |
| DG 1500 A | 3200 | 0,856 | 3,80 | 58 | 80 |
| DG 2000 A | 4800 | 1,284 | 5,70 | 59 | 106 |
| DG 2500 A | 5600 | 1,498 | 6,65 | 60 | 118 |
| DECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 55 |
| DECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 80 |
| DECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 106 |
| DECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 118 |

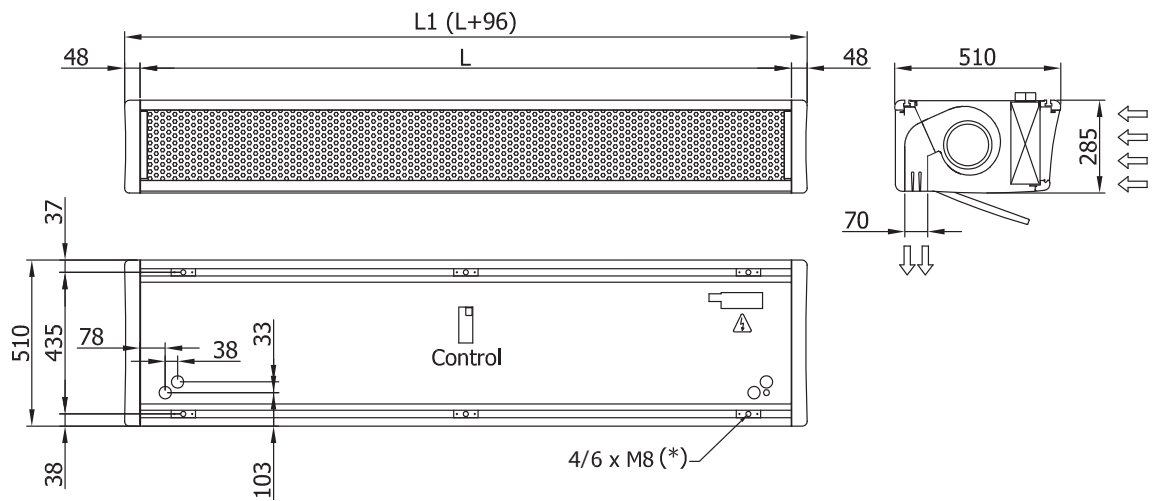
| ELECTRICAL HEATED | | | | | | |
|-------------------|-----------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| DM 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 55 | 58 |
| DM 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 56 | 87 |
| DM 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 57 | 114 |
| DM 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 58 | 128 |
| DECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 56 | 58 |
| DECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 57 | 87 |
| DECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 58 | 114 |
| DECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 59 | 128 |
| DG 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 63 |
| DG 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 93 |
| DG 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 124 |
| DG 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 138 |
| DECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 63 |
| DECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 93 |
| DECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 124 |
| DECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 138 |

| WATER HEATED | | | | | | | | | | | |
|--------------|-----------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| DM 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 56 | 56 |
| DM 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 57 | 83 |
| DM 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 58 | 107 |
| DM 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 59 | 121 |
| DECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 56 | 56 |
| DECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 57 | 83 |
| DECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 58 | 107 |
| DECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 59 | 121 |
| DG 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 61 |
| DG 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 89 |
| DG 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 117 |
| DG 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 129 |
| DECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 61 |
| DECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 89 |
| DECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 117 |
| DECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 129 |

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



Dimensions

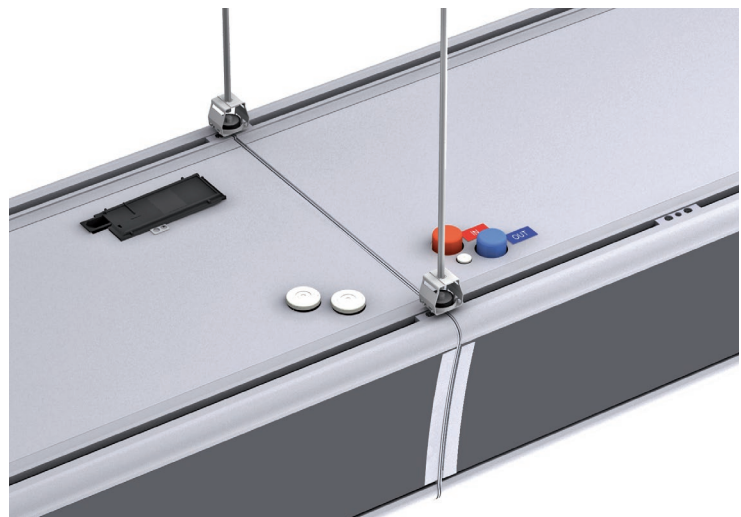


| | L | L1 |
|-----------|------|------|
| Deco 1000 | 1000 | 1096 |
| Deco 1500 | 1500 | 1596 |
| Deco 2000 | 2000 | 2096 |
| Deco 2500 | 2500 | 2596 |

Details



Different colour finishes



Joining two units



(*) Adjustable fixing points through guide rail



Characteristics



- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Front panel with option to customize and the possibility of including personalized logos, signs, graphic designs, images, etc.
- The inlet areas are located behind the front panel. They do not need maintenance.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|----------------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| DAM M 1000 A | 1800 | 0,212 | 0,94 | 55 | 38 |
| DAM M 1500 A | 2700 | 0,318 | 1,41 | 56 | 56 |
| DAM M 2000 A | 3600 | 0,424 | 1,88 | 57 | 70 |
| DAM M 2500 A | 4500 | 0,530 | 2,35 | 58 | 76 |
| DAM M 3000 A | 5400 | 0,636 | 2,82 | 59 | 88 |
| DAM ECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 38 |
| DAM ECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 56 |
| DAM ECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 70 |
| DAM ECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 76 |
| DAM ECM 3000 A | 5520 | 0,396 | 3,42 | 60 | 88 |
| DAM G 1000 A | 2400 | 0,642 | 2,85 | 57 | 42 |
| DAM G 1500 A | 3200 | 0,856 | 3,80 | 58 | 61 |
| DAM G 2000 A | 4800 | 1,284 | 5,70 | 59 | 80 |
| DAM G 2500 A | 5600 | 1,498 | 6,65 | 60 | 86 |
| DAM G 3000 A | 6400 | 1,712 | 7,60 | 61 | 98 |
| DAM ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 42 |
| DAM ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 61 |
| DAM ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 80 |
| DAM ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 86 |
| DAM ECG 3000 A | 7200 | 0,600 | 5,20 | 65 | 98 |

ELECTRICAL HEATED

| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|----------------|-----------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| DAM M 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 55 | 45 |
| DAM M 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 56 | 68 |
| DAM M 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 57 | 88 |
| DAM M 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 58 | 96 |
| DAM M 3000 E | 5400 | 8/16/24 | 0,636 | 2,82 | 59 | 111 |
| DAM ECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 56 | 45 |
| DAM ECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 57 | 68 |
| DAM ECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 58 | 88 |
| DAM ECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 59 | 96 |
| DAM ECM 3000 E | 5520 | 8/16/24 | 0,396 | 3,42 | 60 | 111 |
| DAM G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 50 |
| DAM G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 74 |
| DAM G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 98 |
| DAM G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 106 |
| DAM G 3000 E | 6400 | 10/20/30 | 1,712 | 7,60 | 61 | 121 |
| DAM ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 50 |
| DAM ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 74 |
| DAM ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 98 |
| DAM ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 106 |
| DAM ECG 3000 E | 7200 | 10/20/30 | 0,600 | 5,20 | 65 | 121 |

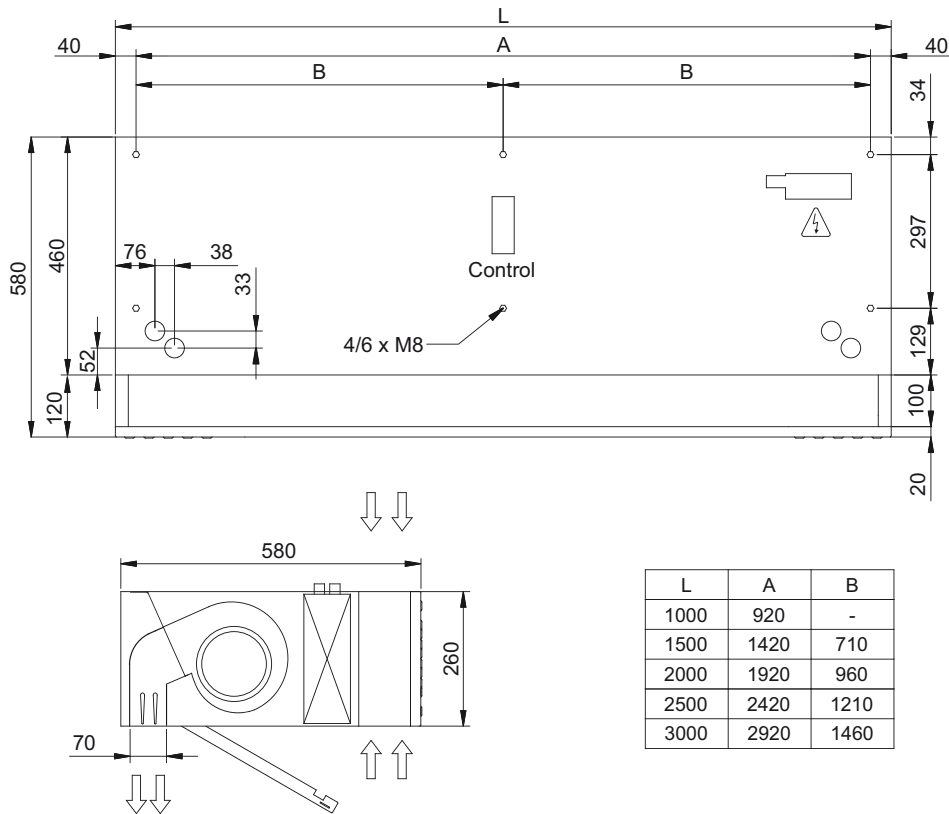
WATER HEATED

| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|----------------|-----------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| DAM M 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 56 | 43 |
| DAM M 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 57 | 64 |
| DAM M 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 58 | 81 |
| DAM M 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 59 | 89 |
| DAM M 3000 P | 4980 | 33,24 | 6590 | 28,37 | 6760 | 29,77 | 5660 | 1,280 | 5,70 | 60 | 103 |
| DAM ECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 56 | 43 |
| DAM ECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 57 | 64 |
| DAM ECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 58 | 81 |
| DAM ECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 59 | 89 |
| DAM ECM 3000 P | 5160 | 40,00 | 6860 | 29,05 | 7050 | 30,54 | 5920 | 0,396 | 3,42 | 60 | 103 |
| DAM G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 48 |
| DAM G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 70 |
| DAM G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 91 |
| DAM G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 97 |
| DAM G 3000 P | 6000 | 37,35 | 8110 | 32,10 | 8410 | 34,03 | 7180 | 1,712 | 7,60 | 61 | 111 |
| DAM ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 48 |
| DAM ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 70 |
| DAM ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 91 |
| DAM ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 97 |
| DAM ECG 3000 P | 6800 | 40,34 | 9290 | 34,81 | 9710 | 37,16 | 8400 | 0,600 | 5,20 | 65 | 111 |

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.



Dimensions



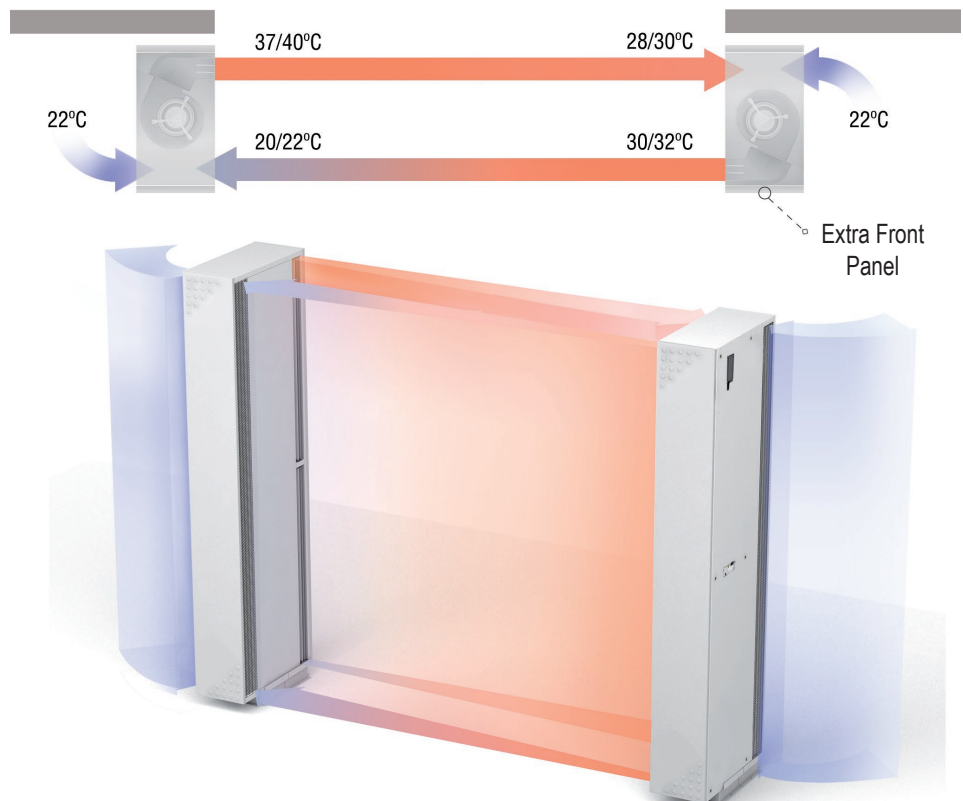
Dam Twin System

The DAM TWIN 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.

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





Characteristics



- Compact and low profile recessed air curtain with full grille view.
- Self-supporting casing construction made of galvanized steel plate, ready to be installed recessed in a false ceiling.
- Inlet grille (free of maintenance) made with aluminium profiles and blow-out nozzle, integrated in a single white frame colour RAL 9016. Other colours are available on request.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m ³ /h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| RDAM M 1000 A | 1800 | 0,212 | 0,94 | 55 | 45 |
| RDAM M 1500 A | 2700 | 0,318 | 1,41 | 56 | 66 |
| RDAM M 2000 A | 3600 | 0,424 | 1,88 | 57 | 84 |
| RDAM M 2500 A | 4500 | 0,530 | 2,35 | 58 | 93 |
| RDAM ECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 45 |
| RDAM ECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 66 |
| RDAM ECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 84 |
| RDAM ECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 93 |
| RDAM G 1000 A | 2400 | 0,642 | 2,85 | 57 | 49 |
| RDAM G 1500 A | 3200 | 0,856 | 3,80 | 58 | 71 |
| RDAM G 2000 A | 4800 | 1,284 | 5,70 | 59 | 94 |
| RDAM G 2500 A | 5600 | 1,498 | 6,65 | 60 | 103 |
| RDAM ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 49 |
| RDAM ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 71 |
| RDAM ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 94 |
| RDAM ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 103 |

ELECTRICAL HEATED

| Model | Airflow m ³ /h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|------------------------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| RDAM M 1000 E | 1800 | 3/6/9 | 0,212 | 0,94 | 55 | 52 |
| RDAM M 1500 E | 2700 | 4/8/12 | 0,318 | 1,41 | 56 | 78 |
| RDAM M 2000 E | 3600 | 6/12/18 | 0,424 | 1,88 | 57 | 102 |
| RDAM M 2500 E | 4500 | 6/12/18 | 0,530 | 2,35 | 58 | 113 |
| RDAM ECM 1000 E | 1840 | 3/6/9 | 0,132 | 1,14 | 56 | 52 |
| RDAM ECM 1500 E | 2760 | 4/8/12 | 0,198 | 1,71 | 57 | 78 |
| RDAM ECM 2000 E | 3680 | 6/12/18 | 0,264 | 2,28 | 58 | 102 |
| RDAM ECM 2500 E | 4600 | 6/12/18 | 0,330 | 2,85 | 59 | 113 |
| RDAM G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | 57 |
| RDAM G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 84 |
| RDAM G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 112 |
| RDAM G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 123 |
| RDAM ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | 57 |
| RDAM ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 84 |
| RDAM ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 112 |
| RDAM ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 123 |

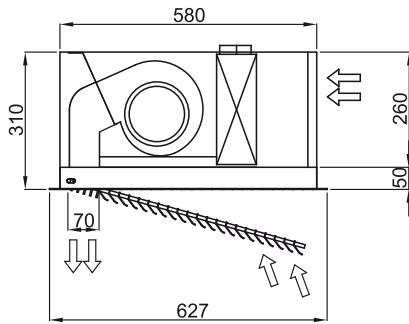
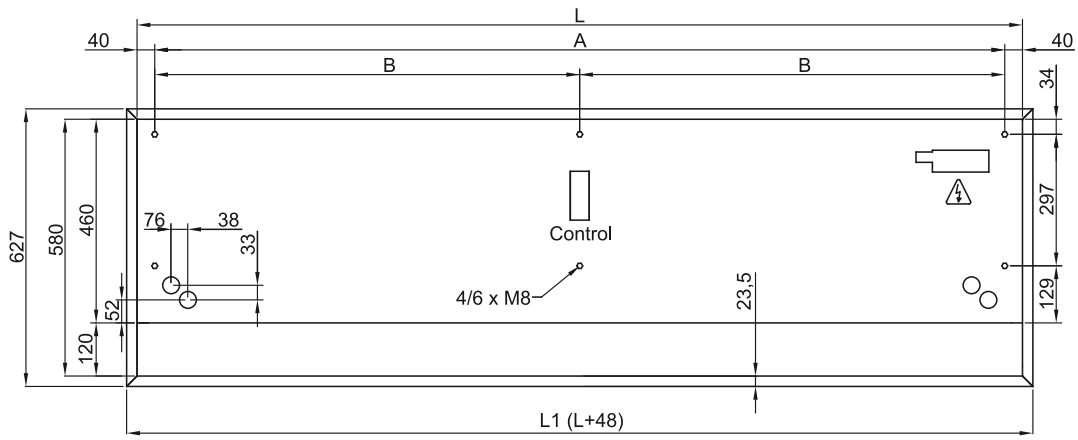
WATER HEATED

| Model | Airflow m ³ /h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| RDAM M 1000 P | 1660 | 9,17 | 880 | 8,56 | 4370 | 8,52 | 1220 | 0,428 | 1,90 | 56 | 50 |
| RDAM M 1500 P | 2490 | 14,26 | 760 | 13,69 | 6460 | 14,34 | 4480 | 0,642 | 2,85 | 57 | 74 |
| RDAM M 2000 P | 3320 | 20,65 | 1930 | 18,26 | 4790 | 18,65 | 2060 | 0,856 | 3,80 | 58 | 95 |
| RDAM M 2500 P | 4150 | 26,92 | 3810 | 22,12 | 3850 | 24,32 | 4040 | 1,070 | 4,75 | 59 | 106 |
| RDAM ECM 1000 P | 1720 | 9,38 | 920 | 8,77 | 4560 | 8,74 | 1280 | 0,132 | 1,14 | 56 | 50 |
| RDAM ECM 1500 P | 2580 | 14,58 | 790 | 14,02 | 6730 | 14,71 | 4690 | 0,198 | 1,71 | 57 | 74 |
| RDAM ECM 2000 P | 3440 | 21,12 | 2010 | 18,70 | 4990 | 19,13 | 2150 | 0,264 | 2,28 | 58 | 95 |
| RDAM ECM 2500 P | 4300 | 27,53 | 3960 | 23,33 | 4010 | 24,95 | 4230 | 0,330 | 2,85 | 59 | 106 |
| RDAM G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | 55 |
| RDAM G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 80 |
| RDAM G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 105 |
| RDAM G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 114 |
| RDAM ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | 55 |
| RDAM ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 80 |
| RDAM ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 105 |
| RDAM ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 114 |

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.



Dimensions

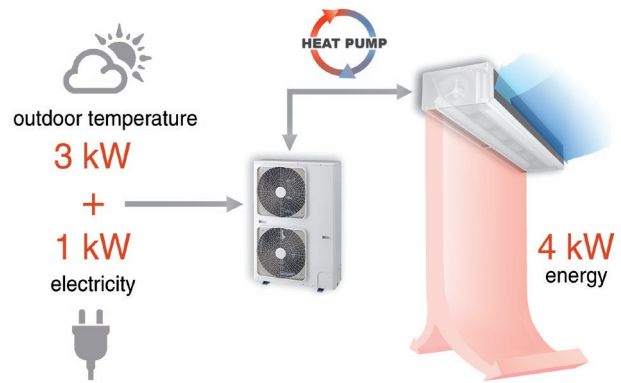


| | L | L1 | A | B |
|-------------------|------|------|------|------|
| Recessed Dam 1000 | 1000 | 1048 | 920 | - |
| Recessed Dam 1500 | 1500 | 1548 | 1420 | 710 |
| Recessed Dam 2000 | 2000 | 2048 | 1920 | 960 |
| Recessed Dam 2500 | 2500 | 2548 | 2420 | 1210 |



Heat Pump Technology

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



Advantages and Benefits

The new Airtecnic Heat Pump Air curtains are absolutely efficient reducing the heating cost and CO₂ emissions up to 70%.

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

Available Airtecnic Heat Pump Air Curtains:

- Heating/Cooling: Windbox M-G, Dam, Recessed Windbox, Smart, Recessed Dam and Windbox L-XL.
- Only Heating: Rund, Zen, Rotowind and Invisair.

Heat Pump vs Electrical Air Curtain - Energy Saving Example

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

Example:

Door dimension: 2 m width by 3 m height

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

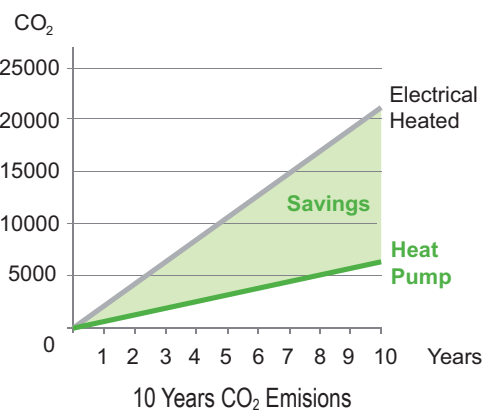
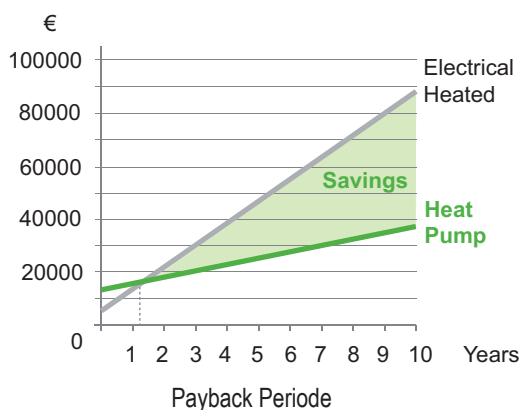
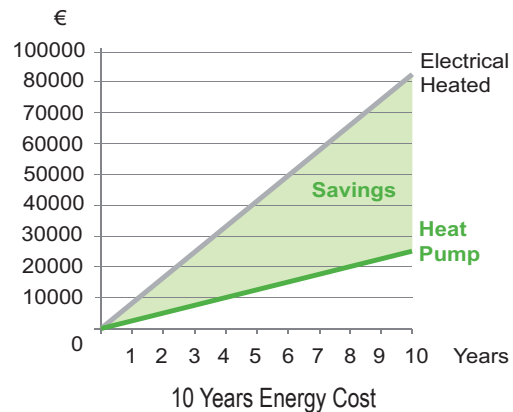
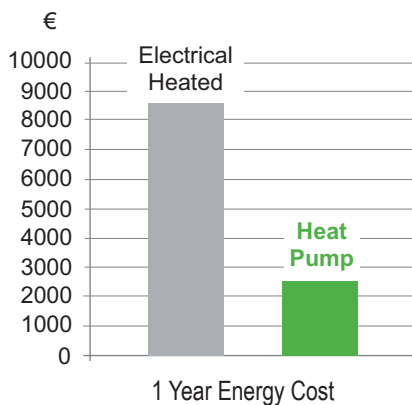
Energy cost: 0,17 €/kW/h (EU-27 average cost)

Selected unit: G 2000, 27kW

COP: 3,31 (Coefficient of Performance)

| | Electrical Air Curtain | | Heat Pump Air Curtain | | Difference |
|---------------------------|------------------------|--------|-----------------------|--------|---------------|
| Total Heating Power | 27 | kW | 27 | kW | 0 kW |
| Air Curtain Price | 3.828 | €/unit | 10.987 | €/unit | + 7.159 € |
| Energy Consumption | 50.544 | kW/h | 15.270 | kW/h | - 35.274 kW/h |
| Energy Cost | 8.592 | € | 2.596 | € | - 5.996 € |
| CO ₂ Emissions | 20.218 | kg | 6.108 | kg | - 14.110 kg |

Result: The payback periode is 1,2 years. We recover the price increase of Heat Pump air curtain in nearly 14 months and then we start saving money. From the beginning we save energy and reduce CO₂ emissions to the environment.





Characteristics



TOSHIBA



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- TOSHIBA DX Interface KIT and programmable control included.
- Ready to connect to TOSHIBA Inverter outdoor heat pump unit (R410A) with expansion valve.

Specifications

| Model (*) | Airflow m ³ /h | Outdoor Unit (**) | | Power Fans 230V-50Hz | Current Fans 230V-50Hz | Noise Level (5 m) | Weight kg |
|--------------------|------------------------------|-------------------|--------------------|----------------------------|------------------------------|-------------------------|--------------|
| | | 230Vx1 | 400Vx3 | kW | A | dB(A) | |
| M 1500 DX11-TO | 2160 | RAV-SM1104ATP-E | RAV-SP1104AT8-E | 0,642 | 2,85 | 57 | 53 |
| M 2000 DX16-TO | 2880 | RAV-SM1603AT-E | RAV-SP1604AT8-E | 0,856 | 3,80 | 58 | 69 |
| M 2500 DX22-TO | 3600 | - | RAV-SM2244AT8-E | 1,070 | 4,75 | 59 | 86 |
| M 3000 DX27-TO | 4320 | - | RAV-SM2804AT8-E | 1,280 | 5,70 | 60 | 103 |
| ECM 1000 DX8-TO | 1640 | RAV-SM804ATP-E | - | 0,132 | 1,14 | 56 | 35 |
| ECM 1500 DX11-TO | 2460 | RAV-SM1104ATP-E | RAV-SP1104AT8-E | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 DX16-TO | 3280 | RAV-SM1603AT-E | RAV-SP1604AT8-E | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 DX22-TO | 4100 | - | RAV-SM2244AT8-E | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 DX27-TO | 4920 | - | RAV-SM2804AT8-E | 0,396 | 3,42 | 60 | 103 |
| G 1000 DX11-TO | 2100 | RAV-SM1104ATP-E | RAV-SP1104AT8-E | 0,642 | 2,85 | 57 | 50 |
| G 1500 DX16-TO | 2800 | RAV-SM1603AT-E | RAV-SP1604AT8-E | 0,856 | 3,80 | 58 | 59 |
| G 2000 DX22-TO | 4200 | - | RAV-SM2244AT8-E | 1,284 | 5,70 | 59 | 92 |
| G 2000 DX27-TO | 4200 | - | RAV-SM2804AT8-E | 1,284 | 5,70 | 59 | 92 |
| G 2500 DX27-TO | 4900 | - | RAV-SM2804AT8-E | 1,498 | 6,65 | 60 | 96 |
| G 3000 DX27-TO | 5600 | - | RAV-SM2804AT8-E | 1,712 | 7,60 | 61 | 109 |
| G 3000 DX32/2-TO | 5600 | 2x RAV-SM1603AT-E | 2x RAV-SP1604AT8-E | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 DX11-TO | 2190 | RAV-SM1104ATP-E | RAV-SP1104AT8-E | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 DX16-TO | 2920 | RAV-SM1603AT-E | RAV-SP1604AT8-E | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 DX22-TO | 4380 | - | RAV-SM2244AT8-E | 0,450 | 3,90 | 63 | 92 |
| ECG 2000 DX27-TO | 4380 | - | RAV-SM2804AT8-E | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 DX27-TO | 5110 | - | RAV-SM2804AT8-E | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 DX27-TO | 5840 | - | RAV-SM2804AT8-E | 0,600 | 5,20 | 65 | 109 |
| ECG 3000 DX32/2-TO | 5840 | 2x RAV-SM1603AT-E | 2x RAV-SP1604AT8-E | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

32/2 Coil with double circuit and two outdoor units of 16kW.

(**) Heating capacity of Outdoor Unit can decrease due to stronger weather conditions, so please check with heat pump distributor to select it properly.

| TOSHIBA Inverter Outdoor Units | Heating Capacity kW | Heating Power kW | SCOP or COP (*) W/W | Cooling Capacity kW | Cooling Power kW | SEER or EER (*) W/W | Power Supply | Pipes Gas Liquid inch | Pipes Minimum Length m | Pipes Maximum Length m | Pipes Maximum Height m |
|--------------------------------------|---------------------------|------------------------|---------------------------|---------------------------|------------------------|---------------------------|-----------------|-----------------------------|---------------------------------|---------------------------------|---------------------------------|
| RAV-SM804ATP-E | 8,0 | 2,21 | 4,02 | 6,7 | 2,09 | 5,63 | 230Vx1 | 5/8 3/8 | 5 | 30 | 30 |
| RAV-SM1104ATP-E | 11,2 | 2,93 | 3,54 | 10,0 | 3,11 | 5,58 | 230Vx1 | 5/8 3/8 | 5 | 50 | 30 |
| RAV-SP1104AT8-E | 11,2 | 2,42 | 4,28 | 10,0 | 2,37 | 6,57 | 400Vx3 | 5/8 3/8 | 3 | 75 | 30 |
| RAV-SM1603AT-E | 16,0 | 4,43 | 3,61 | 14,0 | 4,49 | 3,12 | 230Vx1 | 5/8 3/8 | 5 | 50 | 30 |
| RAV-SP1604AT8-E | 16,0 | 4,30 | 3,72 | 14,0 | 4,49 | 3,12 | 400Vx3 | 5/8 3/8 | 3 | 75 | 30 |
| RAV-SM2244AT8-E | 22,4 | 6,49 | 3,45 | 20,0 | 7,20 | 2,78 | 400Vx3 | 1"1/8 1/2" | 7,5 | 70 | 30 |
| RAV-SM2804AT8-E | 27,0 | 8,15 | 3,31 | 23,0 | 8,75 | 2,63 | 400Vx3 | 1"1/8 1/2" | 7,5 | 70 | 30 |

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

Outdoor unit heating capacity values at standard conditions: indoor dry-bulb temperature 20°C, outdoor dry-bulb temperature 7°C.



Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- MITSUBISHI ELECTRIC DX Interface KIT and programmable control included.
- Ready to connect to MITSUBISHI ELECTRIC Inverter outdoor heat pump unit (R410A) with expansion valve.

Specifications

| Model (*) | Airflow m ³ /h | Outdoor Unit (**) 230Vx1 | Outdoor Unit (**) 400Vx3 | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|--------------------|------------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| M 1500 DX11-ME | 2160 | PUHZ-ZRP100VKA | PUHZ-ZRP100YKA | 0,642 | 2,85 | 57 | 53 |
| M 2000 DX14-ME | 2880 | PUHZ-ZRP125VKA | PUHZ-ZRP125YKA | 0,856 | 3,80 | 58 | 69 |
| M 2000 DX16-ME | 2880 | PUHZ-ZRP140VKA | PUHZ-ZRP140YKA | 0,856 | 3,80 | 58 | 69 |
| M 2500 DX22-ME | 3600 | - | PUHZ-ZRP200YKA | 1,070 | 4,75 | 59 | 86 |
| M 3000 DX27-ME | 4320 | - | PUHZ-ZRP250YKA | 1,280 | 5,70 | 60 | 103 |
| ECM 1000 DX8-ME | 1640 | PUHZ-ZRP71VHA | - | 0,132 | 1,14 | 56 | 35 |
| ECM 1500 DX11-ME | 2460 | PUHZ-ZRP100VKA | PUHZ-ZRP100YKA | 0,198 | 1,71 | 57 | 53 |
| ECM 1500 DX14-ME | 2460 | PUHZ-ZRP125VKA | PUHZ-ZRP125YKA | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 DX16-ME | 3280 | PUHZ-ZRP140VKA | PUHZ-ZRP140YKA | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 DX22-ME | 4100 | - | PUHZ-ZRP200YKA | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 DX27-ME | 4920 | - | PUHZ-ZRP250YKA | 0,396 | 3,42 | 60 | 103 |
| G 1000 DX8-ME | 2100 | PUHZ-ZRP71VHA | - | 0,642 | 2,85 | 57 | 50 |
| G 1500 DX14-ME | 2800 | PUHZ-ZRP125VKA | PUHZ-ZRP125YKA | 0,856 | 3,80 | 58 | 59 |
| G 2000 DX22-ME | 4200 | - | PUHZ-ZRP200YKA | 1,284 | 5,70 | 59 | 92 |
| G 2500 DX27-ME | 4900 | - | PUHZ-ZRP250YKA | 1,498 | 6,65 | 60 | 96 |
| G 3000 DX27-ME | 5600 | - | PUHZ-ZRP250YKA | 1,712 | 7,60 | 61 | 109 |
| G 3000 DX32/2-ME | 5600 | 2xPUHZ-ZRP140VKA | 2xPUHZ-ZRP140YKA | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 DX8-ME | 2190 | PUHZ-ZRP71VHA | - | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 DX16-ME | 2920 | PUHZ-ZRP140VKA | PUHZ-ZRP140YKA | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 DX22-ME | 4380 | - | PUHZ-ZRP200YKA | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 DX27-ME | 5110 | - | PUHZ-ZRP250YKA | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 DX27-ME | 5840 | - | PUHZ-ZRP250YKA | 0,600 | 5,20 | 65 | 109 |
| ECG 3000 DX32/2-ME | 5840 | 2xPUHZ-ZRP140VKA | 2xPUHZ-ZRP140YKA | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

3/2 Coil with double circuit and two outdoor units of 16kW.

(**) Heating capacity of Outdoor Unit can decrease due to stronger weather conditions, so please check with heat pump distributor to select it properly.

| MITSUBISHI Inverter Outdoor Units | Heating Capacity kW | Heating Power kW | SCOP or COP (*) W/W | Cooling Capacity kW | Cooling Power kW | SEER or EER (*) W/W | Power Supply | Pipes Gas Liquid inch | Pipes Minimum Length m | Pipes Maximum Length m | Pipes Maximum Height m |
|---|---------------------------|------------------------|---------------------------|---------------------------|------------------------|---------------------------|-----------------|-----------------------------|---------------------------------|---------------------------------|---------------------------------|
| PUHZ-ZRP71VHA | 8,0 | 2,03 | 3,90 | 7,1 | 2,01 | 5,60 | 230Vx1 | 5/8 3/8 | - | 50 | 30 |
| PUHZ-ZRP100VKA | 11,2 | 2,06 | 4,20 | 10,0 | 2,63 | 5,60 | 230Vx1 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP100YKA | 11,2 | 2,06 | 4,20 | 10,0 | 2,63 | 5,50 | 400Vx3 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP125VKA | 14,0 | 3,63 | 3,86 | 12,5 | 4,05 | 3,09 | 230Vx1 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP125YKA | 14,0 | 3,63 | 3,86 | 12,5 | 4,05 | 3,09 | 400Vx3 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP140VKA | 16,0 | 4,20 | 3,81 | 13,4 | 4,36 | 3,07 | 230Vx1 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP140YKA | 16,0 | 4,20 | 3,81 | 13,4 | 4,36 | 3,07 | 400Vx3 | 5/8 3/8 | - | 75 | 30 |
| PUHZ-ZRP200YKA | 22,4 | 6,94 | 3,23 | 19,0 | 6,46 | 2,94 | 400Vx3 | 1 3/8 | - | 100 | 30 |
| PUHZ-ZRP250YKA | 27,0 | 8,94 | 3,75 | 22,0 | 8,31 | 2,65 | 400Vx3 | 1 1/2 | - | 100 | 30 |

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

Outdoor unit heating capacity values at standard conditions: indoor dry-bulb temperature 20°C, outdoor dry-bulb temperature 7°C.



Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- MITSUBISHI ELECTRIC VRF Interface KIT and programmable control included.
- Ready to connect to MITSUBISHI ELECTRIC VRF heat pump unit (R410A) with expansion valve.

Specifications

| Model (*) | Airflow m ³ /h | Power Fans | Current Fans | Noise Level | Weight kg | Mitsubishi Electric Interface DX-kit (**) |
|-------------------|------------------------------|-----------------|----------------|----------------|--------------|---|
| | | 230V-50Hz kW | 230V-50Hz A | (5 m) dB(A) | | |
| M 1500 VRF12-ME | 2160 | 0,642 | 2,85 | 57 | 53 | PAC-AH125M-J |
| M 2000 VRF16-ME | 2880 | 0,856 | 3,80 | 58 | 69 | PAC-AH125M-J |
| M 2500 VRF22-ME | 3600 | 1,070 | 4,75 | 59 | 86 | PAC-AH250M-J |
| M 3000 VRF27-ME | 4320 | 1,280 | 5,70 | 60 | 103 | PAC-AH250M-J |
| ECM 1500 VRF12-ME | 2460 | 0,198 | 1,71 | 57 | 53 | PAC-AH125M-J |
| ECM 1500 VRF14-ME | 2460 | 0,198 | 1,71 | 57 | 53 | PAC-AH125M-J |
| ECM 2000 VRF16-ME | 3280 | 0,264 | 2,28 | 58 | 69 | PAC-AH125M-J |
| ECM 2500 VRF24-ME | 4100 | 0,330 | 2,85 | 59 | 86 | PAC-AH250M-J |
| ECM 3000 VRF30-ME | 4920 | 0,396 | 3,42 | 60 | 103 | PAC-AH250M-J |
| G 1000 VRF10-ME | 2100 | 0,642 | 2,85 | 57 | 50 | PAC-AH125M-J |
| G 1500 VRF15-ME | 2800 | 0,856 | 3,80 | 58 | 59 | PAC-AH125M-J |
| G 2000 VRF23-ME | 4200 | 1,284 | 5,70 | 59 | 92 | PAC-AH250M-J |
| G 2500 VRF28-ME | 4900 | 1,498 | 6,65 | 60 | 96 | PAC-AH250M-J |
| G 3000 VRF29-ME | 5600 | 1,712 | 7,60 | 61 | 109 | PAC-AH250M-J |
| G 3000 VRF32-ME | 5600 | 1,712 | 7,60 | 61 | 109 | PAC-AH250M-J |
| ECG 1000 VRF10-ME | 2190 | 0,225 | 1,95 | 61 | 50 | PAC-AH125M-J |
| ECG 1500 VRF16-ME | 2920 | 0,300 | 2,60 | 62 | 59 | PAC-AH125M-J |
| ECG 2000 VRF24-ME | 4380 | 0,450 | 3,90 | 63 | 92 | PAC-AH250M-J |
| ECG 2500 VRF29-ME | 5110 | 0,525 | 4,55 | 64 | 96 | PAC-AH250M-J |
| ECG 3000 VRF30-ME | 5840 | 0,600 | 5,20 | 65 | 109 | PAC-AH250M-J |
| ECG 3000 VRF32-ME | 5840 | 0,600 | 5,20 | 65 | 109 | PAC-AH250M-J |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

(**) Includes expansion valve.

| MITSUBISHI ELECTRIC VRF compatible Outdoor Units | |
|--|--------------------|
| Gamma | Series |
| City Multi | S/Y (Heat Pump) |
| City Multi | R2 (Heat Recovery) |
| Mr. Slim | Standard Inverter |
| Mr. Slim | Power Inverter |
| Mr. Slim | Zubadan |
| Industrial | Standard Inverter |
| Industrial | Power Inverter |



Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- DAIKIN DX Interface KIT and programmable controller included.
- Ready to connect to DAIKIN Inverter outdoor heat pump unit (R410A) and expansion valve kit.

Specifications

| Model (*) | Airflow m ³ /h | Outdoor Unit (**) | | Expansion Valve Kit | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------------|------------------------------|-------------------|-------------|---------------------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| | | 230Vx1 | 400Vx3 | | | | | |
| M 1500 DX12-DA | 2160 | ERQ 100 AV1 | - | EKEXV 100 | 0,642 | 2,85 | 57 | 53 |
| M 2000 DX15-DA | 2880 | ERQ 125 AV1 | ERQ 125 AW1 | EKEXV 125 | 0,856 | 3,80 | 58 | 69 |
| M 2000 DX17-DA | 2880 | ERQ 140 AV1 | - | EKEXV 125 | 0,856 | 3,80 | 58 | 69 |
| M 2500 DX22-DA | 3600 | - | ERQ 200 AW1 | EKEXV 200 | 1,070 | 4,75 | 59 | 86 |
| M 3000 DX24-DA | 4320 | - | ERQ 200 AW1 | EKEXV 200 | 1,280 | 5,70 | 60 | 103 |
| M 3000 DX27-DA | 4320 | - | ERQ 250 AW1 | EKEXV 200 | 1,280 | 5,70 | 60 | 103 |
| ECM 1500 DX12-DA | 2460 | ERQ 100 AV1 | - | EKEXV 100 | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 DX19-DA | 3280 | - | ERQ 200 AW1 | EKEXV 140 | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 DX24-DA | 4100 | - | ERQ 200 AW1 | EKEXV 200 | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 DX30-DA | 4920 | - | ERQ 250 AW1 | EKEXV 250 | 0,396 | 3,42 | 60 | 103 |
| G 1000 DX10-DA | 2100 | ERQ 100 AV1 | - | EKEXV 80 | 0,642 | 2,85 | 57 | 50 |
| G 1500 DX15-DA | 2800 | ERQ 125 AV1 | ERQ 125 AW1 | EKEXV 125 | 0,856 | 3,80 | 58 | 59 |
| G 2000 DX23-DA | 4200 | - | ERQ 200 AW1 | EKEXV 200 | 1,284 | 5,70 | 59 | 92 |
| G 2500 DX24-DA | 4900 | - | ERQ 200 AW1 | EKEXV 200 | 1,498 | 6,65 | 60 | 96 |
| G 2500 DX28-DA | 4900 | - | ERQ 250 AW1 | EKEXV 250 | 1,498 | 6,65 | 60 | 96 |
| G 3000 DX29-DA | 5600 | - | ERQ 250 AW1 | EKEXV 250 | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 DX10-DA | 2190 | ERQ 100 AV1 | - | EKEXV 80 | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 DX15-DA | 2920 | ERQ 125 AV1 | ERQ 125 AW1 | EKEXV 125 | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 DX24-DA | 4380 | - | ERQ 200 AW1 | EKEXV 200 | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 DX29-DA | 5110 | - | ERQ 250 AW1 | EKEXV 250 | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 DX29-DA | 5840 | - | ERQ 250 AW1 | EKEXV 250 | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

(**) Heating capacity of Outdoor Unit can decrease due to stronger weather conditions, so please check with heat pump distributor to select it properly.

| DAIKIN Inverter Outdoor Units | Heating Capacity kW | Heating Power kW | SCOP or COP (*) W/W | Cooling Capacity kW | Cooling Power kW | SEER or EER (*) W/W | Power Supply | Pipes | | Pipes Minimum Length m | Pipes Maximum Length m | Pipes Maximum Height m |
|-------------------------------------|---------------------------|------------------------|---------------------------|---------------------------|------------------------|---------------------------|-----------------|-------|--------|---------------------------------|---------------------------------|---------------------------------|
| | | | | | | | | Gas | Liquid | | | |
| ERQ 100 AV1 | 12,5 | 2,74 | 4,56 | 11,2 | 2,81 | 3,99 | 230Vx1 | 5/8 | 3/8 | - | 55 | 35 |
| ERQ 125 AV1 | 16,0 | 3,86 | 4,15 | 14,0 | 3,51 | 3,99 | 230Vx1 | 5/8 | 3/8 | - | 55 | 35 |
| ERQ 125 AW1 | 16,0 | 4,00 | 4,00 | 14,0 | 3,52 | 3,98 | 400Vx3 | 5/8 | 3/8 | - | 55 | 30 |
| ERQ 140 AV1 | 18,0 | 4,57 | 3,94 | 15,5 | 4,53 | 3,42 | 230Vx1 | 3/4 | 3/8 | - | 55 | 35 |
| ERQ 200 AW1 | 25,0 | 5,56 | 4,50 | 22,4 | 5,22 | 4,29 | 400Vx3 | 3/4 | 3/8 | - | 55 | 30 |
| ERQ 250 AW1 | 31,5 | 7,70 | 4,09 | 28,0 | 7,42 | 3,77 | 400Vx3 | 7/8 | 3/8 | - | 55 | 30 |

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

Outdoor unit heating capacity values at standard conditions: indoor dry-bulb temperature 20°C, outdoor dry-bulb temperature 7°C.



Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- DAIKIN VRV Interface KIT and programmable controller included.
- Ready to connect to DAIKIN VRV heat pump unit (R410A) and expansion valve kit.

Specifications

| Model (*) | Airflow m ³ /h | Expansion Valve Kit | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-------------------|------------------------------|---------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| M 1000 VRV7-DA | 1440 | EKEXV 63 | 0,428 | 1,90 | 56 | 35 |
| M 1500 VRV12-DA | 2160 | EKEXV 100 | 0,642 | 2,85 | 57 | 53 |
| M 2000 VRV15-DA | 2880 | EKEXV 125 | 0,856 | 3,80 | 58 | 69 |
| M 2000 VRV17-DA | 2880 | EKEXV 125 | 0,856 | 3,80 | 58 | 69 |
| M 2500 VRV22-DA | 3600 | EKEXV 200 | 1,070 | 4,75 | 59 | 86 |
| M 3000 VRV24-DA | 4320 | EKEXV 200 | 1,280 | 5,70 | 60 | 103 |
| M 3000 VRV27-DA | 4320 | EKEXV 200 | 1,280 | 5,70 | 60 | 103 |
| ECM 1000 VRV8-DA | 1640 | EKEXV 63 | 0,132 | 1,14 | 56 | 35 |
| ECM 1500 VRV12-DA | 2460 | EKEXV 100 | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 VRV19-DA | 3280 | EKEXV 140 | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 VRV24-DA | 4100 | EKEXV 200 | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 VRV26-DA | 4920 | EKEXV 200 | 0,396 | 3,42 | 60 | 103 |
| ECM 3000 VRV30-DA | 4920 | EKEXV 250 | 0,396 | 3,42 | 60 | 103 |
| G 1000 VRV10-DA | 2100 | EKEXV 80 | 0,642 | 2,85 | 57 | 50 |
| G 1500 VRV15-DA | 2800 | EKEXV 125 | 0,856 | 3,80 | 58 | 59 |
| G 2000 VRV23-DA | 4200 | EKEXV 200 | 1,284 | 5,70 | 59 | 92 |
| G 2500 VRV24-DA | 4900 | EKEXV 200 | 1,498 | 6,65 | 60 | 96 |
| G 2500 VRV28-DA | 4900 | EKEXV 250 | 1,498 | 6,65 | 60 | 96 |
| G 3000 VRV29-DA | 5600 | EKEXV 250 | 1,712 | 7,60 | 61 | 109 |
| G 3000 VRV33-DA | 5600 | EKEXV 250 | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 VRV10-DA | 2190 | EKEXV 80 | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 VRV15-DA | 2920 | EKEXV 125 | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 VRV24-DA | 4380 | EKEXV 200 | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 VRV29-DA | 5110 | EKEXV 250 | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 VRV29-DA | 5840 | EKEXV 250 | 0,600 | 5,20 | 65 | 109 |
| ECG 3000 VRV34-DA | 5840 | EKEXV 250 | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

DAIKIN VRV Outdoor Units

VRV IV HP (Heat Pump)

VRV IV HR (Heat Recovery)





Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- LG DX Interface KIT and programmable control included.
- Ready to connect to LG Inverter outdoor heat pump unit (R410A) with expansion valve.

Specifications

| Model (*) | Airflow m ³ /h | Outdoor Unit (**) | | Power Fans | Current Fans | Noise Level | Weight kg |
|------------------|------------------------------|-------------------|-----------|-----------------|----------------|----------------|--------------|
| | | 230Vx1 | 400Vx3 | 230V-50Hz kW | 230V-50Hz A | (5 m) dB(A) | |
| M 1000 DX9-LG | 1440 | UU30W U44 | - | 0,428 | 1,90 | 56 | 35 |
| M 1500 DX11-LG | 2160 | UU36W UO2 | UU37W UO2 | 0,642 | 2,85 | 57 | 53 |
| M 1500 DX14-LG | 2160 | UU42W U32 | UU43W U32 | 0,642 | 2,85 | 57 | 53 |
| M 2000 DX15-LG | 2880 | UU48W U32 | UU49W U32 | 0,856 | 3,80 | 58 | 69 |
| M 2500 DX22-LG | 3600 | - | UU70W U34 | 1,070 | 4,75 | 59 | 86 |
| M 3000 DX27-LG | 4320 | - | UU85W U74 | 1,280 | 5,70 | 60 | 103 |
| ECM 1000 DX9-LG | 1640 | UU30W U44 | - | 0,132 | 1,14 | 56 | 35 |
| ECM 1500 DX15-LG | 2460 | UU48W U32 | UU49W U32 | 0,198 | 1,71 | 57 | 53 |
| ECM 2000 DX15-LG | 3280 | UU48W U32 | UU49W U32 | 0,264 | 2,28 | 58 | 69 |
| ECM 2000 DX22-LG | 3280 | - | UU70W U34 | 0,264 | 2,28 | 58 | 69 |
| ECM 2500 DX22-LG | 4100 | - | UU70W U34 | 0,330 | 2,85 | 59 | 86 |
| ECM 2500 DX27-LG | 4100 | - | UU85W U74 | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 DX27-LG | 4920 | - | UU85W U74 | 0,396 | 3,42 | 60 | 103 |
| G 1000 DX9-LG | 2100 | UU30W U44 | - | 0,642 | 2,85 | 57 | 50 |
| G 1500 DX15-LG | 2800 | UU48W U32 | UU49W U32 | 0,856 | 3,80 | 58 | 59 |
| G 2000 DX27-LG | 4200 | - | UU85W U74 | 1,284 | 5,70 | 59 | 92 |
| G 2500 DX27-LG | 4900 | - | UU85W U74 | 1,498 | 6,65 | 60 | 96 |
| G 3000 DX27-LG | 5600 | - | UU85W U74 | 1,712 | 7,60 | 61 | 109 |
| ECG 1500 DX15-LG | 2920 | UU48W U32 | UU49W U32 | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 DX27-LG | 4380 | - | UU85W U74 | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 DX27-LG | 5110 | - | UU85W U74 | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 DX27-LG | 5840 | - | UU85W U74 | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

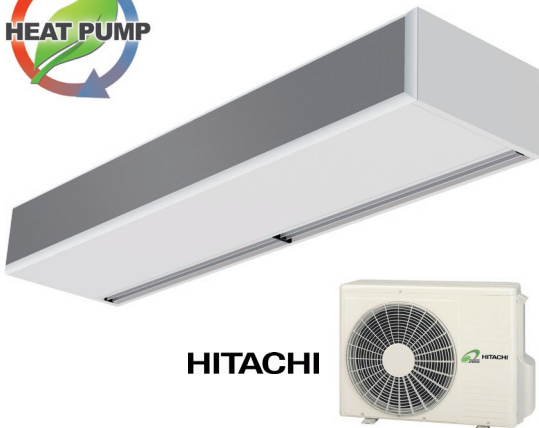
(**) Heating capacity of Outdoor Unit can decrease due to stronger weather conditions, so please check with heat pump distributor to select it properly.

| LG Inverter Outdoor Units | Heating Capacity kW | Heating Power kW | SCOP or COP (*) W/W | Cooling Capacity kW | Cooling Power kW | SEER or EER (*) W/W | Power Supply | Pipes | | Pipes Minimum Length m | Pipes Maximum Length m | Pipes Maximum Height m |
|---------------------------|------------------------|---------------------|------------------------|------------------------|---------------------|------------------------|--------------|-------|--------|---------------------------|---------------------------|---------------------------|
| | | | | | | | | Gas | Liquid | | | |
| UU30W U44 | 9,0 | 2,62 | 4,00 | 7,8 | 2,41 | 6,10 | 230Vx1 | 5/8 | 3/8 | 5 | 50 | 30 |
| UU36W UO2 | 11,2 | 3,19 | 3,81 | 10,0 | 3,12 | 5,11 | 230Vx1 | 5/8 | 3/8 | 5 | 50 | 30 |
| UU37W UO2 | 11,2 | 3,19 | 3,81 | 10,0 | 3,12 | 5,11 | 400Vx3 | 5/8 | 3/8 | 5 | 50 | 30 |
| UU42W U32 | 14,0 | 3,86 | 3,63 | 12,1 | 3,76 | 3,22 | 230Vx1 | 5/8 | 3/8 | 5 | 75 | 30 |
| UU43W U32 | 14,0 | 3,86 | 3,63 | 12,5 | 3,76 | 3,22 | 400Vx3 | 5/8 | 3/8 | 5 | 75 | 30 |
| UU48W U32 | 15,4 | 4,39 | 3,50 | 14,0 | 4,10 | 3,41 | 230Vx1 | 5/8 | 3/8 | 5 | 75 | 30 |
| UU49W U32 | 15,4 | 4,39 | 3,50 | 14,0 | 4,10 | 3,41 | 400Vx3 | 5/8 | 3/8 | 5 | 75 | 30 |
| UU70W U34 | 22,4 | 6,40 | 3,50 | 19,0 | 6,69 | 2,84 | 400Vx3 | 1 | 3/8 | 5 | 75 | 30 |
| UU85W U74 | 27,0 | 8,31 | 3,25 | 23,0 | 8,19 | 2,81 | 400Vx3 | 7/8 | 1/2 | 5 | 75 | 30 |

(*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW.
Outdoor unit heating capacity values at standard conditions: indoor dry-bulb temperature 20°C, outdoor dry-bulb temperature 7°C.



Characteristics



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. Internal prefilter included.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- HITACHI DX Interface KIT with expansion valve and programmable control included.
- Ready to connect to HITACHI Inverter outdoor heat pump unit (R410A).

Specifications

| Model (*) | Airflow m ³ /h | Outdoor Unit (**) | | Power Fans 230V-50Hz | Current Fans 230V-50Hz | Noise Level (5 m) | Weight kg |
|------------------|------------------------------|-------------------|--------------|----------------------------|------------------------------|-------------------------|--------------|
| | | 230Vx1 | 400Vx3 | kW | A | dB(A) | |
| M 1500 DX11-HI | 2160 | RAS-4H(V)NCE | RAS-4H(V)NCE | 0,642 | 2,85 | 57 | 53 |
| M 2500 DX22-HI | 3600 | - | RAS-8HNCE | 1,070 | 4,75 | 59 | 86 |
| ECM 1500 DX11-HI | 2460 | RAS-4H(V)NCE | RAS-4H(V)NCE | 0,198 | 1,71 | 57 | 53 |
| ECM 2500 DX22-HI | 4100 | - | RAS-8HNCE | 0,330 | 2,85 | 59 | 86 |
| ECM 3000 DX28-HI | 4920 | - | RAS-10HNCE | 0,396 | 3,42 | 60 | 103 |
| G 1000 DX8-HI | 2100 | RAS-3HVNC | - | 0,642 | 2,85 | 57 | 50 |
| G 1500 DX16-HI | 2800 | RAS-6H(V)NCE | RAS-6H(V)NCE | 0,856 | 3,80 | 58 | 59 |
| G 2000 DX22-HI | 4200 | - | RAS-8HNCE | 1,284 | 5,70 | 59 | 92 |
| G 2500 DX22-HI | 4900 | - | RAS-8HNCE | 1,498 | 6,65 | 60 | 96 |
| G 2500 DX28-HI | 4900 | - | RAS-10HNCE | 1,498 | 6,65 | 60 | 96 |
| G 3000 DX28-HI | 5600 | - | RAS-10HNCE | 1,712 | 7,60 | 61 | 109 |
| ECG 1000 DX8-HI | 2190 | RAS-3HVNC | - | 0,225 | 1,95 | 61 | 50 |
| ECG 1000 DX11-HI | 2190 | RAS-4H(V)NCE | RAS-4H(V)NCE | 0,225 | 1,95 | 61 | 50 |
| ECG 1500 DX14-HI | 2920 | RAS-5H(V)NCE | RAS-5H(V)NCE | 0,300 | 2,60 | 62 | 59 |
| ECG 1500 DX16-HI | 2920 | RAS-6H(V)NCE | RAS-6H(V)NCE | 0,300 | 2,60 | 62 | 59 |
| ECG 2000 DX22-HI | 4380 | - | RAS-8HNCE | 0,450 | 3,90 | 63 | 92 |
| ECG 2500 DX22-HI | 5110 | - | RAS-8HNCE | 0,525 | 4,55 | 64 | 96 |
| ECG 2500 DX28-HI | 5110 | - | RAS-10HNCE | 0,525 | 4,55 | 64 | 96 |
| ECG 3000 DX28-HI | 5840 | - | RAS-10HNCE | 0,600 | 5,20 | 65 | 109 |

(*) Also valid for Models: M,ECM,G,ECG - Recessed Windbox, Smart, Dam, Recessed Dam
G,ECG - Rund, Zen, Rotowind, Invisair

(**) Heating capacity of Outdoor Unit can decrease due to stronger weather conditions, so please check with heat pump distributor to select it properly.

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

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

Outdoor unit heating capacity values at standard conditions: indoor dry-bulb temperature 20°C, outdoor dry-bulb temperature 7°C.



Characteristics



- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Two frontal grille options. Industrial perforated by default.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector.
- “P” type with water heated coil. “E” type with electrical shielded elements, three stages with integrated regulation. “A” type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 10m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------|-----------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| L 1000 A | 4000 | 1,04 | 4,40 | 63 | 72 |
| L 1500 A | 6000 | 1,56 | 6,60 | 64 | 108 |
| L 2000 A | 8000 | 2,08 | 8,80 | 65 | 145 |
| L 2500 A | 10000 | 2,60 | 11,00 | 66 | 177 |
| L 3000 A | 12000 | 3,12 | 13,20 | 67 | 213 |
| XL 1000 A | 5300 | 1,40 | 6,00 | 65 | 78 |
| XL 1500 A | 7950 | 2,10 | 9,00 | 66 | 117 |
| XL 2000 A | 10600 | 2,80 | 12,00 | 67 | 157 |
| XL 2500 A | 13250 | 3,50 | 15,00 | 68 | 192 |
| XL 3000 A | 15900 | 4,20 | 18,00 | 69 | 211 |

ELECTRICAL HEATED

| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|--------------|-----------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| L 1000 E | 4000 | 10/15/25 | 1,04 | 4,40 | 63 | 90 |
| L 1500 E | 6000 | 15/22,5/37,5 | 1,56 | 6,60 | 64 | 135 |
| L 2000 E | 8000 | 20/30/50 (*) | 2,08 | 8,80 | 65 | 180 |
| L 2500 E | 10000 | 20/40/60 (*) | 2,60 | 11,00 | 66 | 225 |
| L 3000 E | 12000 | 20/40/60 (*) | 3,12 | 13,20 | 67 | 270 |
| XL 1000 E | 5300 | 10/15/25 | 1,40 | 6,00 | 65 | 95 |
| XL 1000 E-35 | 5300 | 10/25/35 | 1,40 | 6,00 | 65 | 96 |
| XL 1500 E | 7950 | 15/22,5/37,5 | 2,10 | 9,00 | 66 | 144 |
| XL 1500 E-52 | 7950 | 15/37,5/52,5 (*) | 2,10 | 9,00 | 66 | 150 |
| XL 2000 E | 10600 | 20/30/50 (*) | 2,80 | 12,00 | 67 | 192 |
| XL 2000 E-70 | 10600 | 20/50/70 (*) | 2,80 | 12,00 | 67 | 200 |
| XL 2500 E | 13250 | 20/40/60 (*) | 3,50 | 15,00 | 68 | 240 |
| XL 2500 E-70 | 13250 | 20/50/70 (*) | 3,50 | 15,00 | 68 | 250 |
| XL 3000 E | 15900 | 20/40/60 (*) | 4,20 | 18,00 | 69 | 288 |
| XL 3000 E-80 | 15900 | 30/50/80 (**) | 4,20 | 18,00 | 69 | 300 |

(*) 2 separated power supplies. (**) 3 separated power supplies.

WATER HEATED

| Model | Airflow m³/h | P86 | | P64 | | P54 | | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------|-----------------|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| L 1000 P | 3800 | 19,68 | 1730 | 16,18 | 2570 | 17,18 | 1560 | 1,04 | 4,40 | 62 | 89 |
| L 1500 P | 5700 | 29,64 | 950 | 25,92 | 3210 | 29,04 | 5710 | 1,56 | 6,60 | 63 | 128 |
| L 2000 P | 7600 | 43,01 | 2390 | 35,58 | 3680 | 38,93 | 4330 | 2,08 | 8,80 | 64 | 171 |
| L 2500 P | 9500 | 56,01 | 4670 | 45,55 | 4750 | 49,36 | 4990 | 2,60 | 11,00 | 65 | 214 |
| L 3000 P | 11400 | 69,27 | 8090 | 56,78 | 8350 | 59,96 | 5770 | 3,12 | 13,20 | 66 | 260 |
| XL 1000 P | 4900 | 22,68 | 2250 | 18,98 | 3410 | 20,43 | 2120 | 1,40 | 6,00 | 64 | 94 |
| XL 1500 P | 7350 | 34,52 | 1240 | 30,45 | 4270 | 34,55 | 7780 | 2,10 | 9,00 | 65 | 137 |
| XL 2000 P | 9800 | 50,10 | 3140 | 41,83 | 4910 | 46,36 | 5910 | 2,80 | 12,00 | 66 | 183 |
| XL 2500 P | 12250 | 65,29 | 6130 | 53,56 | 6330 | 58,81 | 6810 | 3,50 | 15,00 | 67 | 227 |
| XL 3000 P | 14700 | 80,79 | 10640 | 66,78 | 11140 | 71,47 | 7890 | 4,20 | 18,00 | 68 | 278 |

Water heated: P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.

2x1" for 1000 and 1500, 2x1½" for 2000 and 2500, 2x1½" for 3000.

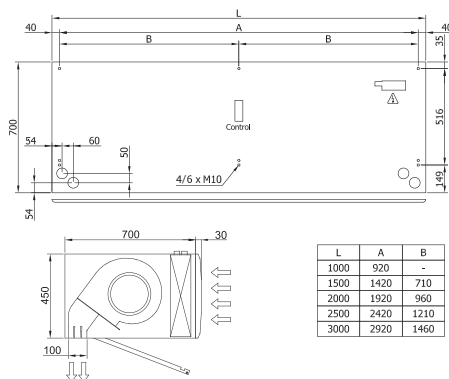
Connection pipes P86, P64 and P54 are female (male if lateral pipes).



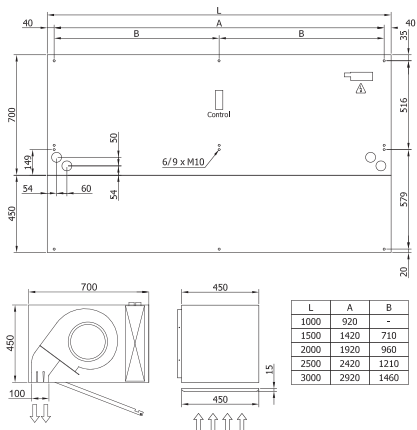
Layouts and dimensions



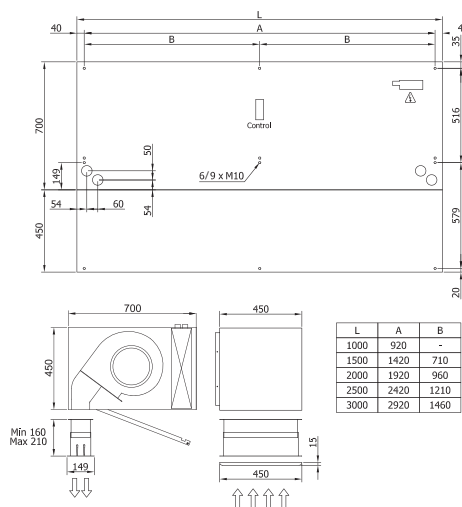
Free hanging mounting



Inside ceiling surface mounting

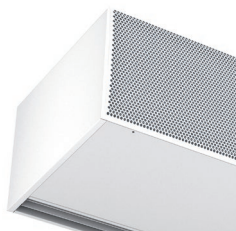


False ceiling invisible mounting

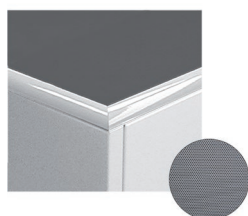


Grille finishes

Industrial



Decorative





Characteristics



- Specially designed for applications where the body of the air curtain is to be installed inside a column or bulkhead for architectural reasons. It can be vertically or horizontally mounted.
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- The air flow of Invisair follows a straight line from the air inlet grille to the discharge. Inlet area inside a bulkhead or column should be designed with suitable grille provided by others.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level.
- 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|-------------|-----------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| IM 1500 A | 2640 | 0,424 | 1,88 | 56 | 55 |
| IM 2000 A | 3960 | 0,636 | 2,82 | 57 | 68 |
| IM 2500 A | 4620 | 0,742 | 3,29 | 58 | 73 |
| IG 1500 A | 3200 | 0,856 | 3,80 | 58 | 60 |
| IG 2000 A | 4800 | 1,284 | 5,70 | 59 | 78 |
| IG 2500 A | 5600 | 1,498 | 6,65 | 60 | 83 |
| IECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 60 |
| IECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 78 |
| IECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 83 |

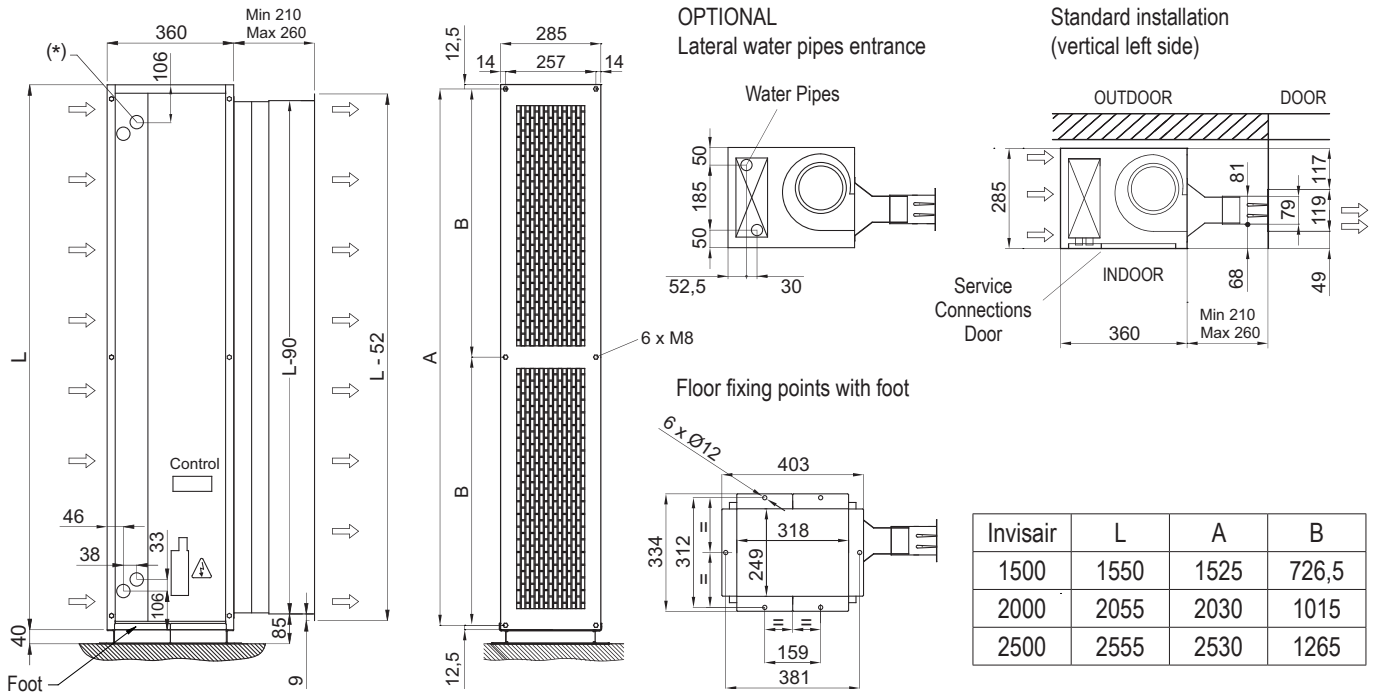
| ELECTRICAL HEATED | | | | | | |
|-------------------|-----------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| IM 1500 E | 2640 | 4/8/12 | 0,424 | 1,88 | 56 | 67 |
| IM 2000 E | 3960 | 6/12/18 | 0,636 | 2,82 | 57 | 86 |
| IM 2500 E | 4620 | 6/12/18 | 0,742 | 3,29 | 58 | 93 |
| IG 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | 73 |
| IG 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | 96 |
| IG 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | 103 |
| IECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | 73 |
| IECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | 96 |
| IECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | 103 |

| WATER HEATED | | | | | | | | | | | |
|--------------|-----------------|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| IM 1500 P | 2480 | 14,23 | 760 | 13,65 | 6430 | - | - | 0,424 | 1,88 | 56 | 63 |
| IM 2000 P | 3720 | 22,17 | 2190 | 19,70 | 5470 | - | - | 0,636 | 2,82 | 57 | 78 |
| IM 2500 P | 4340 | 27,69 | 4000 | 23,48 | 4060 | - | - | 0,742 | 3,29 | 58 | 86 |
| IG 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | 69 |
| IG 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | 89 |
| IG 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | 94 |
| IECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | 69 |
| IECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | 89 |
| IECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | 94 |

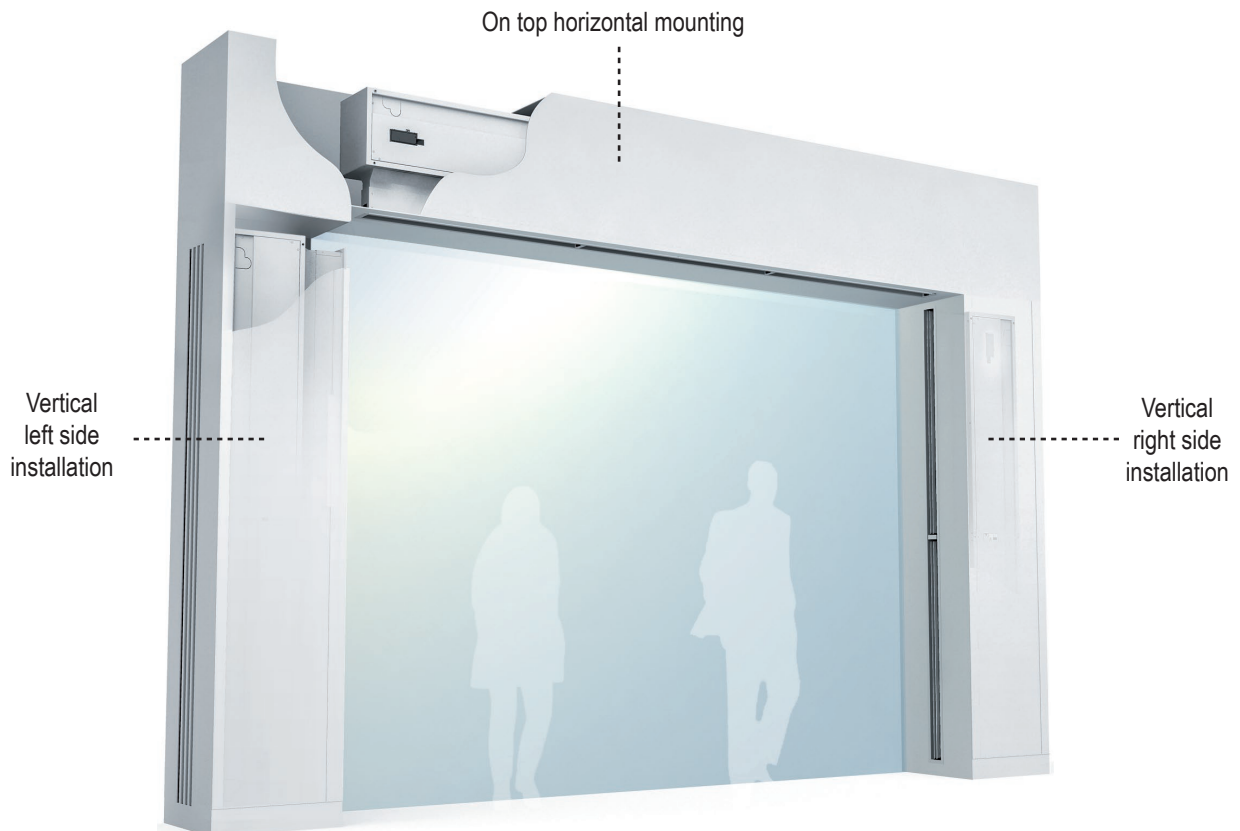
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.



Layouts and dimensions



Installation examples





Characteristics



- Specially designed to be installed in all type of revolving doors. Two possible layouts, tailored dimensions.
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Large perforated inlet grille avoiding intensive maintenance.
- Circular anodized aluminium outlet vanes, airfoil shaped.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only. Optional expansion DX coil.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|-----------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| ROTO M 1000 A | 1980 | 0,318 | 1,41 | 55 | - |
| ROTO M 1500 A | 2640 | 0,424 | 1,88 | 56 | - |
| ROTO M 2000 A | 3960 | 0,636 | 2,82 | 57 | - |
| ROTO M 2500 A | 4620 | 0,742 | 3,29 | 58 | - |
| ROTO G 1000 A | 2400 | 0,642 | 2,85 | 57 | - |
| ROTO G 1500 A | 3200 | 0,856 | 3,80 | 58 | - |
| ROTO G 2000 A | 4800 | 1,284 | 5,70 | 59 | - |
| ROTO G 2500 A | 5600 | 1,498 | 6,65 | 60 | - |
| ROTO ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | - |
| ROTO ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | - |
| ROTO ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | - |
| ROTO ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | - |

ELECTRICAL HEATED

| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|-----------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| ROTO M 1000 E | 1980 | 3/6/9 | 0,318 | 1,41 | 55 | - |
| ROTO M 1500 E | 2640 | 4/8/12 | 0,424 | 1,88 | 56 | - |
| ROTO M 2000 E | 3960 | 6/12/18 | 0,636 | 2,82 | 57 | - |
| ROTO M 2500 E | 4620 | 6/12/18 | 0,742 | 3,29 | 58 | - |
| ROTO G 1000 E | 2400 | 5/10/15 | 0,642 | 2,85 | 57 | - |
| ROTO G 1500 E | 3200 | 7,5/15/22,5 | 0,856 | 3,80 | 58 | - |
| ROTO G 2000 E | 4800 | 10/20/30 | 1,284 | 5,70 | 59 | - |
| ROTO G 2500 E | 5600 | 10/20/30 | 1,498 | 6,65 | 60 | - |
| ROTO ECG 1000 E | 2700 | 5/10/15 | 0,225 | 1,95 | 61 | - |
| ROTO ECG 1500 E | 3600 | 7,5/15/22,5 | 0,300 | 2,60 | 62 | - |
| ROTO ECG 2000 E | 5400 | 10/20/30 | 0,450 | 3,90 | 63 | - |
| ROTO ECG 2500 E | 6300 | 10/20/30 | 0,525 | 4,55 | 64 | - |

WATER HEATED

| Model | Airflow m³/h | P86 | | P64 | | P54 | | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|-----------------|-----------------|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|----------------------------------|-----------------------------------|----------------------------------|--------------|
| | | Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Heating Capacity 50/40°C kW | Water Drop Pressure 50/40°C Pa | | | | |
| ROTO M 1000 P | 1860 | 9,84 | 1000 | 9,22 | 4990 | - | - | 0,318 | 1,41 | 55 | - |
| ROTO M 1500 P | 2480 | 14,23 | 760 | 13,65 | 6430 | - | - | 0,424 | 1,88 | 56 | - |
| ROTO M 2000 P | 3720 | 22,17 | 2190 | 19,70 | 5470 | - | - | 0,636 | 2,82 | 57 | - |
| ROTO M 2500 P | 4340 | 27,69 | 4000 | 23,48 | 4060 | - | - | 0,742 | 3,29 | 58 | - |
| ROTO G 1000 P | 2250 | 11,04 | 1230 | 10,42 | 6190 | 10,56 | 1790 | 0,642 | 2,85 | 57 | - |
| ROTO G 1500 P | 3000 | 16,02 | 940 | 15,47 | 8020 | 16,37 | 5670 | 0,856 | 3,80 | 58 | - |
| ROTO G 2000 P | 4500 | 24,92 | 2700 | 22,29 | 6810 | 23,15 | 3030 | 1,284 | 5,70 | 59 | - |
| ROTO G 2500 P | 5250 | 31,16 | 4930 | 26,61 | 5060 | 28,76 | 5450 | 1,498 | 6,65 | 60 | - |
| ROTO ECG 1000 P | 2550 | 11,89 | 1400 | 11,27 | 7110 | 11,50 | 2090 | 0,225 | 1,95 | 61 | - |
| ROTO ECG 1500 P | 3400 | 17,29 | 1070 | 16,77 | 9240 | 17,86 | 6620 | 0,300 | 2,60 | 62 | - |
| ROTO ECG 2000 P | 5100 | 26,86 | 3080 | 24,14 | 7850 | 25,24 | 3530 | 0,450 | 3,90 | 63 | - |
| ROTO ECG 2500 P | 5950 | 33,63 | 5650 | 28,84 | 5840 | 31,38 | 6360 | 0,525 | 4,55 | 64 | - |

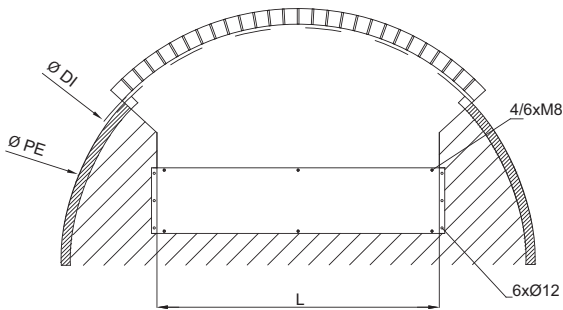
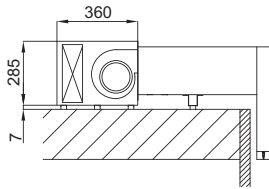
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male. P86 2 rows coil, P64 3 rows coil, P54 4 rows coil.



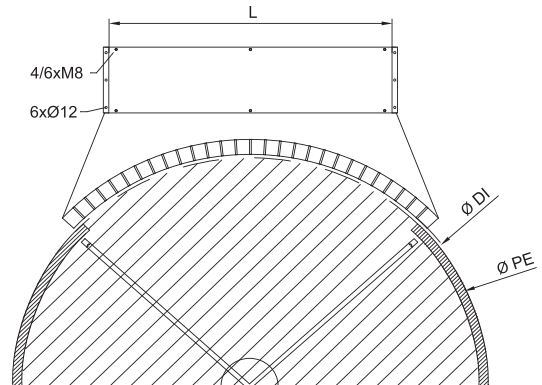
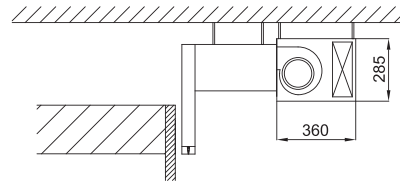
Layouts and dimensions

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

On top mounting



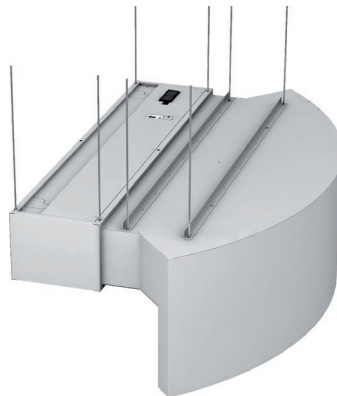
False ceiling mounting



Fixation system



Fixed onto the door



Hanging from the ceiling

Optional decorative front cover



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

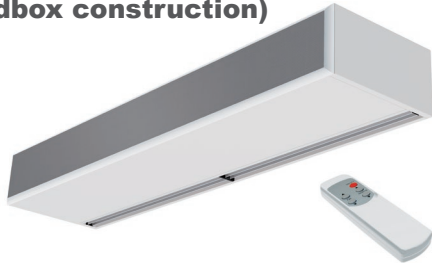


Characteristics

VP (with profiles)



VW (Windbox construction)



- Designed to be tailor-made, adaptable to any customer's needs.
- Option VP: Structure made of aluminium profiles and galvanized steel panels, finished white RAL 9016 as standard. Other colours are available on request. VP construction allow the service from the top and the bottom. Large perforated inlet grille avoiding intensive maintenance.
- Option VW: Same construction as Windbox M-G. Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request. Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

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

There all types from 1000 to 3000 mm length. It's available unheated, water heated, electrical heated or with heat pump.

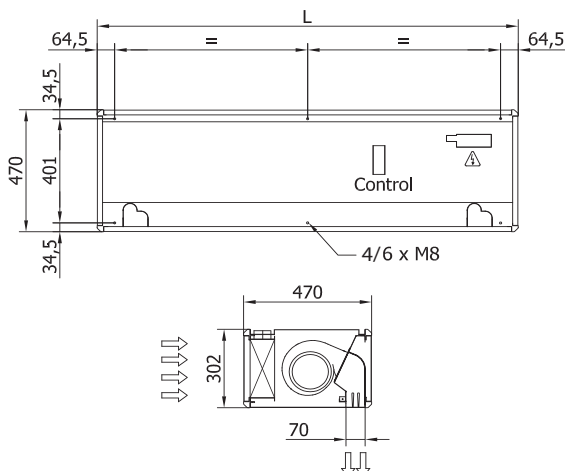
Layouts and dimensions

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

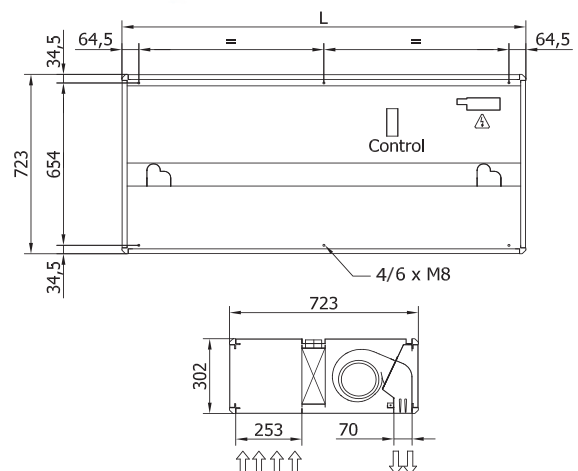
Example: Standard Variwind 1500 will have similar performance as Windbox 1500 (air volume, heating, consumption, etc.). Depending on how many mm we add to the nominal dimension 1500mm, we could put more fans and power heating if required (consult if possible).

| | Customized length (mm) | |
|---------------|------------------------|-----------|
| | VP | VW |
| Variwind 1000 | 1045-1544 | 1000-1499 |
| Variwind 1500 | 1545-2049 | 1500-1999 |
| Variwind 2000 | 2050-2549 | 2000-2499 |
| Variwind 2500 | 2550-3000 | 2500-3000 |

VP Free hanging mounting



VP Inside ceiling surface mounting



VW Construction: see Windbox M-G dimensions



Characteristics



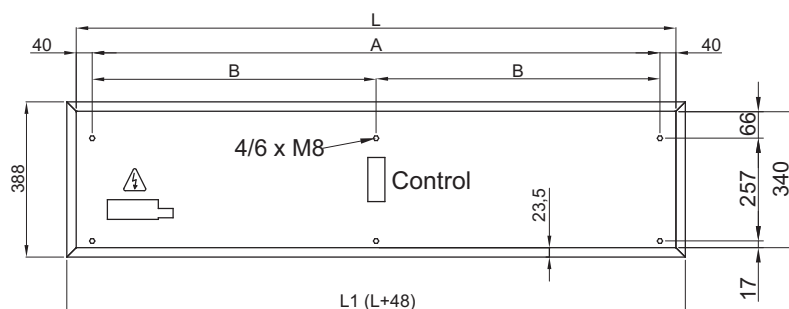
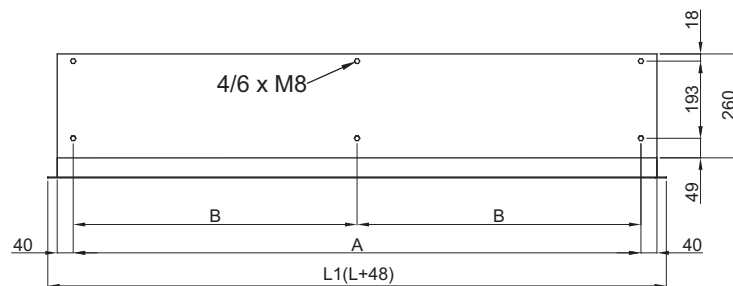
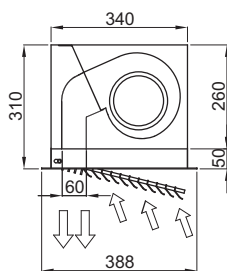
- Compact and low profile air only recessed air curtain, with full grille view, specially designed for applications without heating.
- Self-supporting casing construction made of galvanized steel plate, ready to be installed recessed in a false ceiling.
- Inlet grille (free of maintenance) made with aluminium profiles and blow-out nozzle, integrated in a single white frame colour RAL 9016. Other colours are available on request.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable in both directions.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "A" type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

| Model | Airflow m ³ /h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|---------------|------------------------------|----------------------------------|-----------------------------------|----------------------------------|--------------|
| RC M 1000 A | 1800 | 0,212 | 0,94 | 55 | 33 |
| RC M 1500 A | 2700 | 0,318 | 1,41 | 56 | 50 |
| RC M 2000 A | 3600 | 0,424 | 1,88 | 57 | 61 |
| RC M 2500 A | 4500 | 0,530 | 2,35 | 58 | 68 |
| RC ECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 33 |
| RC ECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 50 |
| RC ECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 61 |
| RC ECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 68 |
| RC G 1000 A | 2400 | 0,642 | 2,85 | 57 | 37 |
| RC G 1500 A | 3200 | 0,856 | 3,80 | 58 | 55 |
| RC G 2000 A | 4800 | 1,284 | 5,70 | 59 | 71 |
| RC G 2500 A | 5600 | 1,498 | 6,65 | 60 | 78 |
| RC ECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 37 |
| RC ECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 56 |
| RC ECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 71 |
| RC ECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 78 |

Dimensions



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



Characteristics

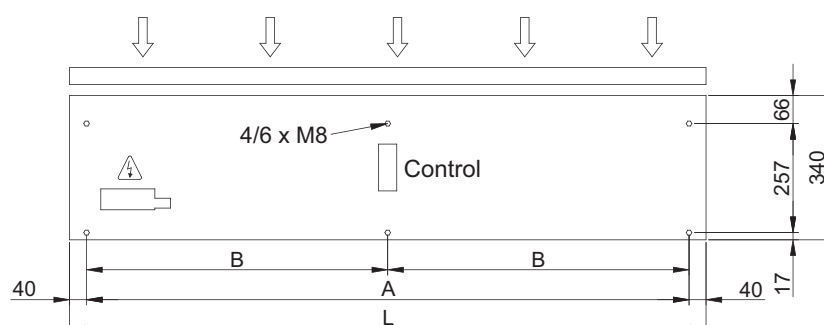
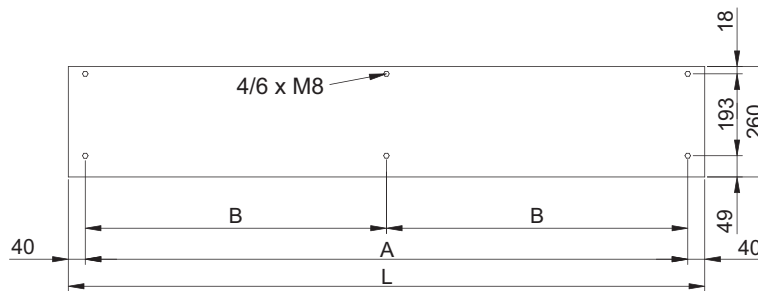
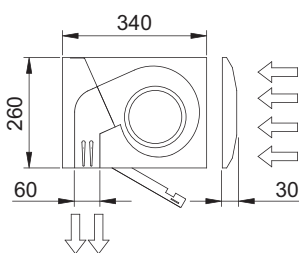


- Specially designed to be installed in doors of cold stores and freezers.
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Large perforated inlet grille avoiding intensive maintenance. Also available with flat micro-perforated inlet grille, more elegant for commercial doors where heating is not needed.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level.
- 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- "A" type without heating, air only.
- Includes Plug&Play control with 7m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|-------------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Power Fans 230V-50Hz kW | Current Fans 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| KM 1000 A | 1800 | 0,212 | 0,94 | 55 | 29 |
| KM 1500 A | 2700 | 0,318 | 1,41 | 56 | 44 |
| KM 2000 A | 3600 | 0,424 | 1,88 | 57 | 53 |
| KM 2500 A | 4500 | 0,530 | 2,35 | 58 | 58 |
| KM 3000 A | 5400 | 0,636 | 2,82 | 59 | 76 |
| KECM 1000 A | 1840 | 0,132 | 1,14 | 56 | 33 |
| KECM 1500 A | 2760 | 0,198 | 1,71 | 57 | 50 |
| KECM 2000 A | 3680 | 0,264 | 2,28 | 58 | 61 |
| KECM 2500 A | 4600 | 0,330 | 2,85 | 59 | 68 |
| KECM 3000 A | 5520 | 0,396 | 3,42 | 60 | 76 |
| KG 1000 A | 2400 | 0,642 | 2,85 | 57 | 37 |
| KG 1500 A | 3200 | 0,856 | 3,80 | 58 | 55 |
| KG 2000 A | 4800 | 1,284 | 5,70 | 59 | 71 |
| KG 2500 A | 5600 | 1,498 | 6,65 | 60 | 78 |
| KG 3000 A | 6400 | 1,712 | 7,60 | 61 | 86 |
| KECG 1000 A | 2700 | 0,225 | 1,95 | 61 | 37 |
| KECG 1500 A | 3600 | 0,300 | 2,60 | 62 | 56 |
| KECG 2000 A | 5400 | 0,450 | 3,90 | 63 | 71 |
| KECG 2500 A | 6300 | 0,525 | 4,55 | 64 | 78 |
| KECG 3000 A | 7200 | 0,600 | 5,20 | 65 | 86 |

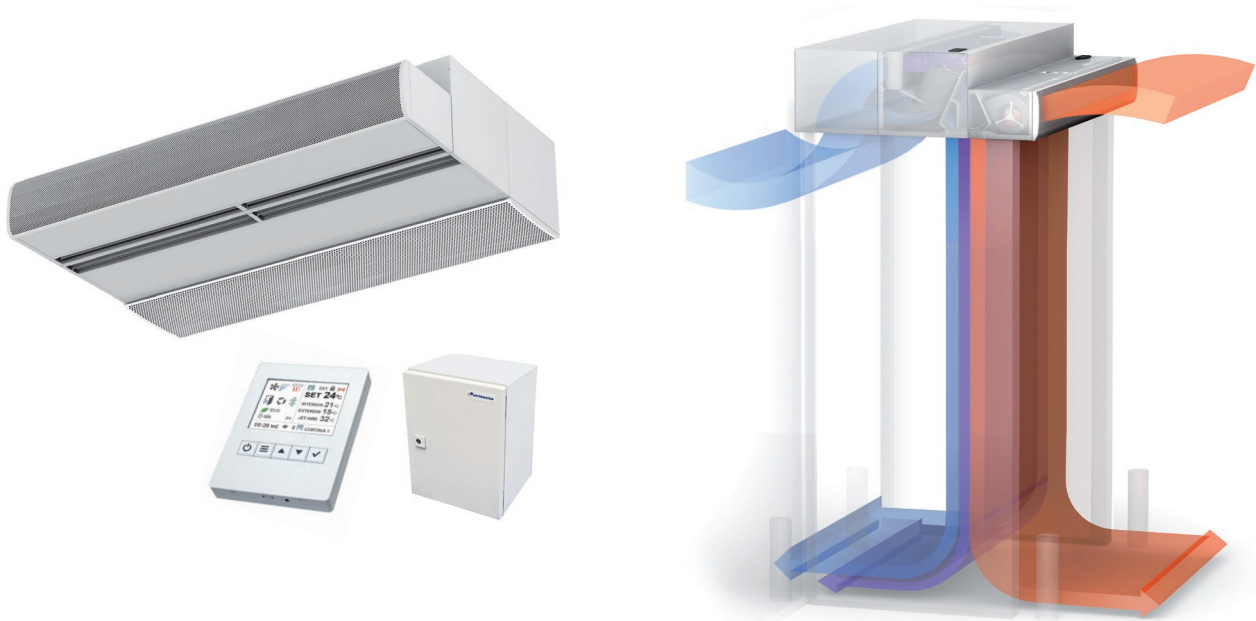
Dimensions



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



Characteristics

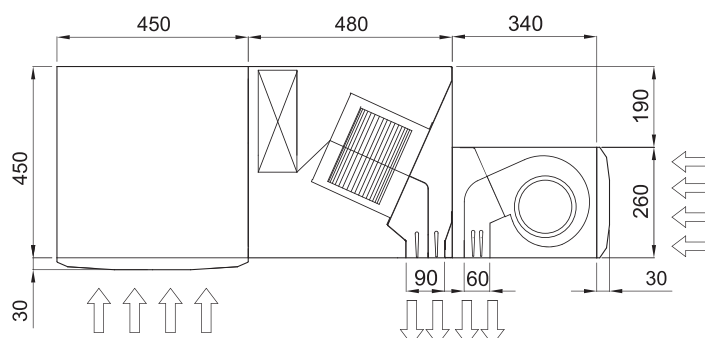


- Specially designed to be installed on doors of industrial cold stores and freezers with big temperature differences.
- Reduces mist, snow and ice decreasing risk of accidents.
- System composed by two air curtains: special Duojet air curtain with plenum and Kool air curtain. The result is a combination system of 3 jets at different temperatures and different speeds.
- High efficiency barrier against big amount of thermal losses due to a big temperature difference (shorter payback).
- Structure support with lateral walls to cover 100% of the opening with 3 jets should be provided by others.
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Large perforated inlet grille avoiding intensive maintenance.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Duojet with IP55 AC centrifugal fans and Kool with EC fans (both double inlet, external rotor motors and built-in thermal protection contact). All provided with 5-speed selection, very low noise level.
- Includes electrical shielded element of 3 power stages with integrated regulation.
- Triojet is automatically fully controlled by Clever control. Electronics and controller protected inside IP65 boxes. Plug & Play connections.
- Ready for BMS connection via Modbus RTU.

Specifications

| Model | Airflow m ³ /h | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Electrical Heating Capacity 400Vx3-50Hz kW | Noise Level (5 m) dB(A) | Weight kg |
|---------------------|------------------------------|----------------------------------|-----------------------------------|---|----------------------------------|--------------|
| TRIOJET SYSTEM 1000 | 5900 | 1,08 | 5,75 | 3/6/9 | 62 | 125 |
| TRIOJET SYSTEM 1500 | 8400 | 1,58 | 8,30 | 4/8/12 | 63 | 182 |
| TRIOJET SYSTEM 2000 | 11800 | 2,16 | 11,50 | 6/12/18 | 64 | 234 |
| TRIOJET SYSTEM 2500 | 14300 | 2,66 | 14,05 | 6/12/18 | 65 | 275 |
| TRIOJET SYSTEM 3000 | 16800 | 3,17 | 16,60 | 8/16/24 | 66 | 314 |

Dimensions





Characteristics



- High performance industrial air curtains for vertical or horizontal installations for large industrial doors. Available in 1.5, 2.0 and 2.5 meters length. Easy dockable modules to reach large dimensions.
- Heavy self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Double outlet with Coanda effect to achieve larger and efficient air jet. Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- High efficiency and low noise axial fans, driven with external rotor motor single phase 230V. Optionally three phase 400V. Maintenance free.
- “P” type with water heated coil. “A” type without heating, air only.
- Regulation not included. Optional:
Basic regulation with Plug&Play control panel, 10m RJ45 cable and remote control.
Advanced regulation with Clever (automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

AIR ONLY

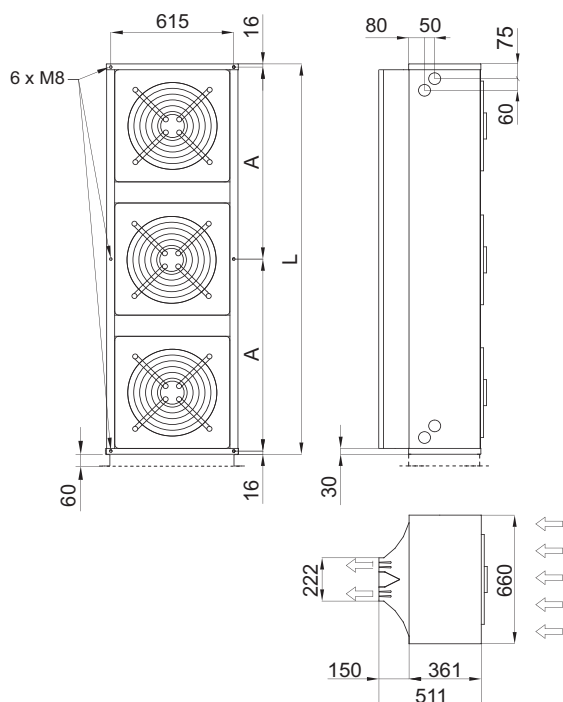
| Model | Airflow m ³ /h | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| MXW 1500 A | 7000 | 0,68 | 2,96 | 60 | 79 |
| MXW 2000 A | 10500 | 1,02 | 4,44 | 61 | 103 |
| MXW 2500 A | 14000 | 1,36 | 5,92 | 62 | 126 |

WATER HEATED

| Model | Airflow m ³ /h | P86 | | P64 | | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg | | |
|------------|------------------------------|---|--------------------------------------|------------------------------|---|-------------------------------|--------------------------------|-------------------------------|--------------|--------------------------------------|------------------------------|
| | | Water Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Water Connections 80/60°C | Water Heating Capacity 60/40°C kW | | | | | Water Drop Pressure 60/40°C Pa | Water Connections 60/40°C |
| MXW 1500 P | 6800 | 41,39 | 12040 | 2x1¼" | 34,09 | 12620 | 2x1¼" | 0,68 | 2,96 | 59 | 95 |
| MXW 2000 P | 10200 | 61,25 | 16920 | 2x1¼" | 50,16 | 13660 | 2x1¼" | 1,02 | 4,44 | 60 | 126 |
| MXW 2500 P | 13600 | 80,05 | 13940 | 2x1¼" | 66,19 | 14600 | 2x1¼" | 1,36 | 5,92 | 61 | 158 |

Water heated: P86 2 rows coil, P64 3 rows coil. Electrical heated models available on customer request. Let us know your needs.

Dimensions



| | L | A |
|----------|------|------|
| MXW 1500 | 1500 | 734 |
| MXW 2000 | 2000 | 984 |
| MXW 2500 | 2500 | 1234 |



Characteristics



- High performance industrial air curtains for vertical or horizontal installations for large industrial doors. Easy dockable modules to reach large dimensions.
- Heavy casing made of double chamber aluminium profiles and galvanized plated steel panels, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours are available on request.
- Double outlet with Coanda effect to achieve larger and efficient air jet. Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- High efficiency and low noise axial fans, driven with external rotor motor single phase 230V. Optionally three phase 400V. Provided with 5-speed selection. Maintenance free.
- "P" type with water heated coil. "E" type with electrical shielded elements, three stages with integrated regulation. "A" type without heating, air only.
- Includes Plug&Play control with 10m RJ45 cable and infrared remote control. Optional: Clever control (programmable, automatic, intelligent, energy saving, Modbus RTU for BMS...).

Specifications

| AIR ONLY | | | | | |
|----------|-----------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| MAX 2 A | 6600 | 0,68 | 2,96 | 62 | 59 |
| MAX 3 A | 9900 | 1,02 | 4,44 | 63 | 79 |
| MAX 4 A | 13200 | 1,36 | 5,92 | 64 | 103 |
| MAX 5 A | 16500 | 1,70 | 7,40 | 65 | 124 |
| MAX 6 A | 19800 | 2,04 | 8,88 | 66 | 151 |

| ELECTRICAL HEATED | | | | | | |
|-------------------|-----------------|--|-------------------------------|--------------------------------|-------------------------------|--------------|
| Model | Airflow m³/h | Electrical Heating Capacity 400Vx3-50Hz kW | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
| MAX 2 E | 6600 | 15/25/40 | 0,68 | 2,96 | 62 | 74 |
| MAX 3 E | 9900 | 22,5/37,5/60 (**) | 1,02 | 4,44 | 63 | 100 |
| MAX 4 E | 13200 | 30/50/80 (**) | 1,36 | 5,92 | 64 | 133 |
| MAX 5 E | 16500 | 30/60/90 (**) | 1,70 | 7,40 | 65 | 159 |
| MAX 6 E | 19800 | 30/60/90 (**) | 2,04 | 8,88 | 66 | 186 |

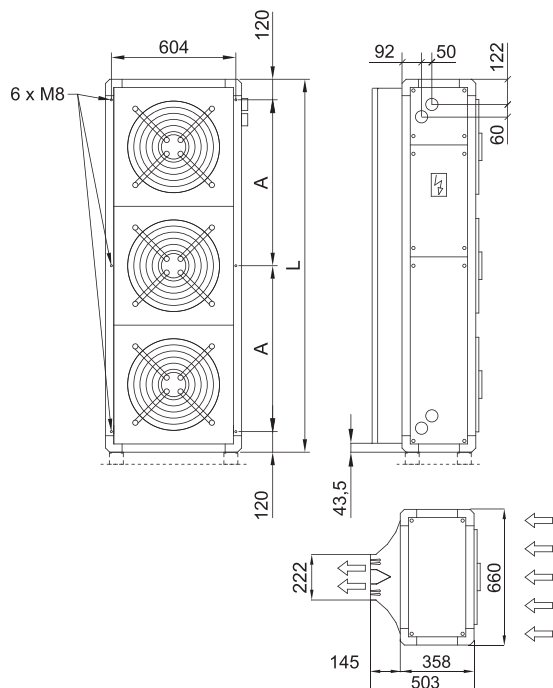
(*) 2 separated power supplies. (**) 3 separated power supplies.

WATER HEATED

| Model | Airflow m³/h | P86 | | | P64 | | | Fans Power 230V-50Hz kW | Fans Current 230V-50Hz A | Noise Level (5 m) dB(A) | Weight kg |
|---------|-----------------|---|--------------------------------------|------------------------------|---|--------------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------|
| | | Water Heating Capacity 80/60°C kW | Water Drop Pressure 80/60°C Pa | Water Connections 80/60°C | Water Heating Capacity 60/40°C kW | Water Drop Pressure 60/40°C Pa | Water Connections 60/40°C | | | | |
| MAX 2 P | 6400 | 28,74 | 350 | 2x1¼" | 29,71 | 8690 | 2x1¼" | 0,68 | 2,96 | 61 | 75 |
| MAX 3 P | 9600 | 51,77 | 1440 | 2x1¼" | 47,10 | 11930 | 2x1¼" | 1,02 | 4,44 | 62 | 102 |
| MAX 4 P | 12800 | 74,15 | 2580 | 2x1¼" | 63,30 | 9340 | 2x1¼" | 1,36 | 5,92 | 63 | 135 |
| MAX 5 P | 16000 | 96,43 | 7070 | 2x1¼" | 82,16 | 18450 | 2x1¼" | 1,70 | 7,40 | 64 | 162 |
| MAX 6 P | 19200 | 118,69 | 12160 | 2x1¼" | 91,92 | 3770 | 2x1¼" | 2,04 | 8,88 | 65 | 189 |

Water heated: P86 2 rows coil, P64 3 rows coil.

Dimensions



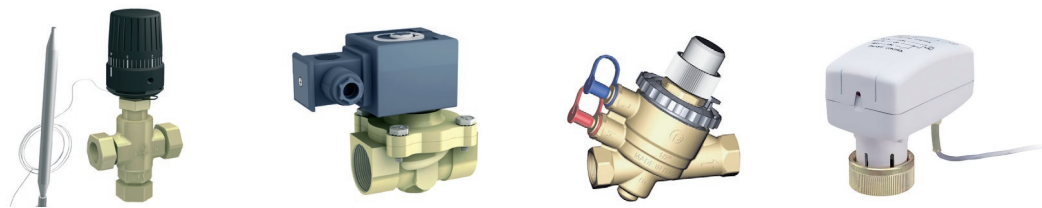
| | L | A |
|-------|------|------|
| MAX 2 | 1234 | 498 |
| MAX 3 | 1811 | 786 |
| MAX 4 | 2388 | 1074 |
| MAX 5 | 2965 | 1363 |
| MAX 6 | 3542 | 1651 |



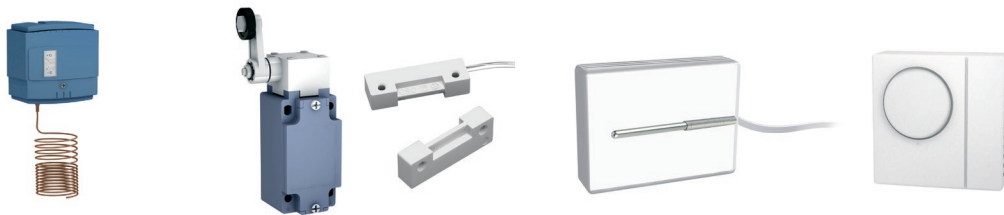
Accessories



Feet, wall or ceiling supports, tailor made arms, vibration dampers...



Thermostatic valve, solenoid valve (ON/OFF), modulating valves...



Anti-freeze sensor, door contact, ambient thermostat, external temperature sensor...



Telephone cables: RJ45, RJ11, different lengths...

Special Options

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

Here there are some of the possibilities:

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

Please consult us for further information or other options.



Correction factors for water temperatures (M, ECM, G, ECG)

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 | | | | | | |
| | | | 90/70 | 2,45 | 2,30 | 2,21 | | | | | | |
| | | | 80/60 | 2,03 | 1,89 | 1,81 | | | | | | |
| 70/50 | | | 1,61 | 1,48 | 1,40 | | | | | | | |
| 60/40 | | | 1,21 | 1,08 | 1,00 | | | | | | | |
| 50/30 | | 0,80 | 0,67 | 0,59 | | | | | | | | |
| 15°C | | 60/45 | - | 1,22 | 1,14 | | | | | | | |
| | | 50/35 | 0,94 | 0,82 | 0,75 | | | | | | | |
| 10°C | | 40/30 | 0,69 | 0,57 | 0,49 | | | | | | | |

Example of heat capacity calculation:

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

| | | | | | | |
|---------------|---|-----------------------------|---|-----------------------|---|----------|
| HEAT CAPACITY | = | Nominal Power (20,65 kW) | x | Coefficient (1,35) | = | 27,87 kW |
|---------------|---|-----------------------------|---|-----------------------|---|----------|



EC Concept

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

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

EC motors have no slippage losses, thus increasing efficiency versus AC motors.

EC Motor Principle

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

Advantages and Benefits

The new Airtecnicos EC Air curtains are fascinatingly efficient reducing the running cost of the ventilation up to 65% using EC instead of AC fans.

- Energy savings: minimum power consumption and better efficiency than AC equivalent
- Low motor temperature: for longer lifetime than AC equivalent
- Simplicity: electronic and power transformation are completely integrated within the motor
- High performance: speed can be driven up to 3600rpm

Available EC Air Curtains: Windbox ECM-ECG, Smart, Deco, Kool, Recessed Windbox, Dam, Recessed Dam, Duojet, Variwind, Recessed Compact, Rund, Zen, Rotowind and Invisair.

EC vs AC Air Curtain - Energy Saving Example

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

Example:

Door dimension: 2 m width by 3,8 m height

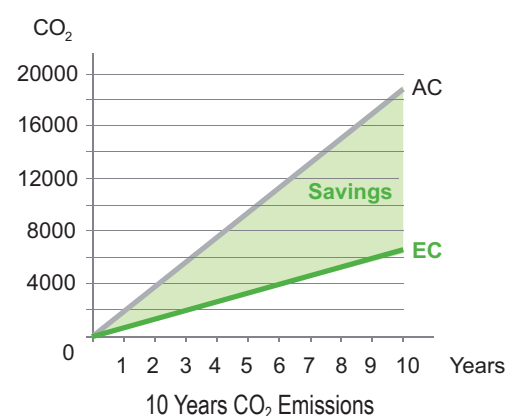
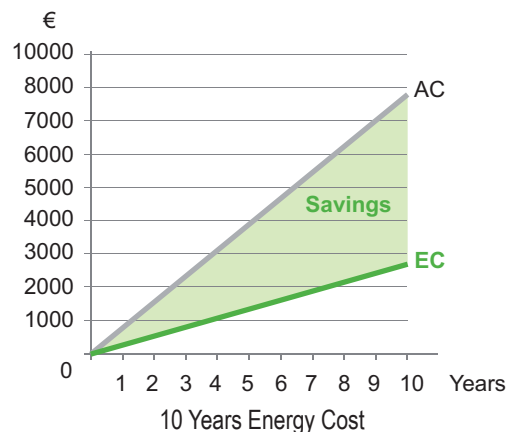
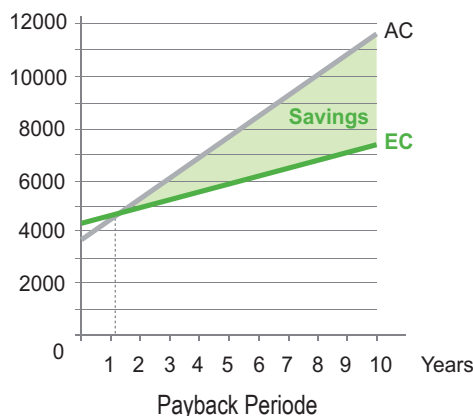
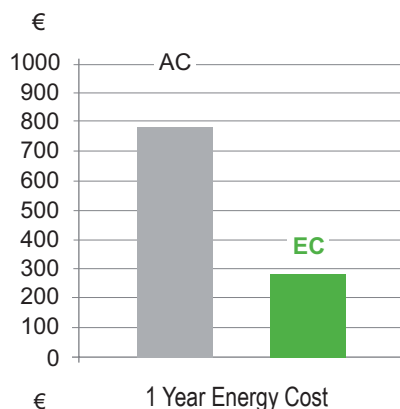
Running time: 12 hours/day, 6 days/week,
50 weeks (~ 1 year)

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

Selected unit: AC: G 2000, EC: ECG 2000

| | AC Air Curtain | | EC Air Curtain | | Difference |
|---------------------------|----------------|--------|----------------|--------|--------------|
| Total Fans Power | 1,284 | kW | 0,450 | kW | - 0,834 kW |
| Air Curtain Price | 3.828 | €/unit | 4.440 | €/unit | + 612 € |
| Energy Consumption | 4.622 | kW/h | 1.620 | kW/h | - 3.002 kW/h |
| Energy Cost | 786 | € | 275 | € | - 510 € |
| CO ₂ Emissions | 1.849 | kg | 648 | kg | - 1.201 kg |

Result: The payback periode is 1,2 years. We recover the price increase of EC air curtain in about 1 year and then we start saving money. From the beginning we save energy and reduce CO₂ emissions to the environment.



BASIC REGULATION: Standard Controls



Two ranges of control panels, both designed for easy and quick Plug & Play connection, free of mistakes, by using a telephone cable with RJ45 connectors. The digital communication between the control panel and air curtain is a very reliable connection without information losses even at long distances. All control panels can be turned ON/OFF externally and have internal memory (if the power supply is cut off, the unit goes back to the selected state).

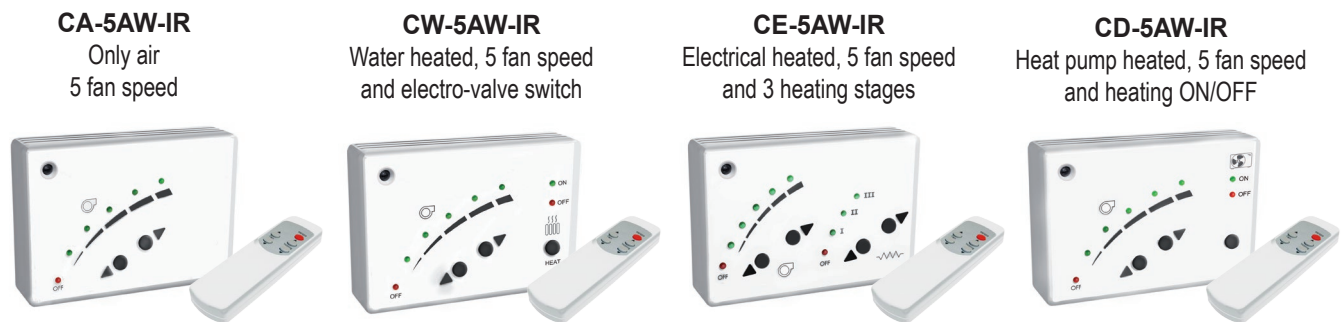
2 Speed Range Controls

Suitable for Optima and Recessed Optima air curtains. Infrared remote control included.



5 Speed Range Controls

Suitable for Windbox M,G,L,XL, Dam, Smart, Recessed Windbox, Recessed Dam, Recessed Compact, Kool, Zen, Rund, Deco, Rotowind, Invisair, Variwind, Max and Maxwell air curtains. Infrared remote control included.



Optional Controls

Hand Auto

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



CH-2HO-NE

CH-5HW-NE

Digital Thermostat

Only electrical heated: modifies heat stages and fan speed depending on temperature and selected program.



TD-NE-II

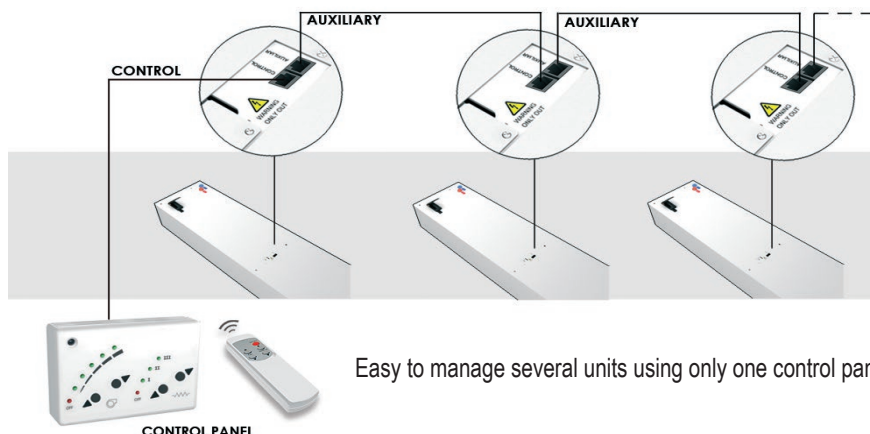
Interface

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



IN-NE-II

Multiple air curtain connection



Easy to manage several units using only one control panel.

ADVANCED REGULATION: Clever Control



The future is here with the new generation Clever control. Maximum control with maximum energy saving.

What is Clever control?

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.



INTELLIGENT
PROACTIVE
REGULATION



It includes manual or automatic functioning with many different programs depending on heating type (water, electrical, heat pump or unheated) and installed temperature sensors.

Clever kit includes:



Clever Control

- Color TFT screen 2.8 inch
- 114 (h) x 85 (w) x 14 (d) mm
- Prepared for flush-mount installation



PCB Power Supply

- Input: 100-240Vx1 50/60Hz (AC)
- Output: 24V 2A (DC)
- EU 2 pins / BS 3 pin plugs



Outdoor Temperature Sensor

- Real-time temperature values
- IP65 Protection



Intelligent PCB Box

- Electronic PCB Regulation
- 218 (w) x 140 (h) x 64 (d) mm
- Varnish Protection



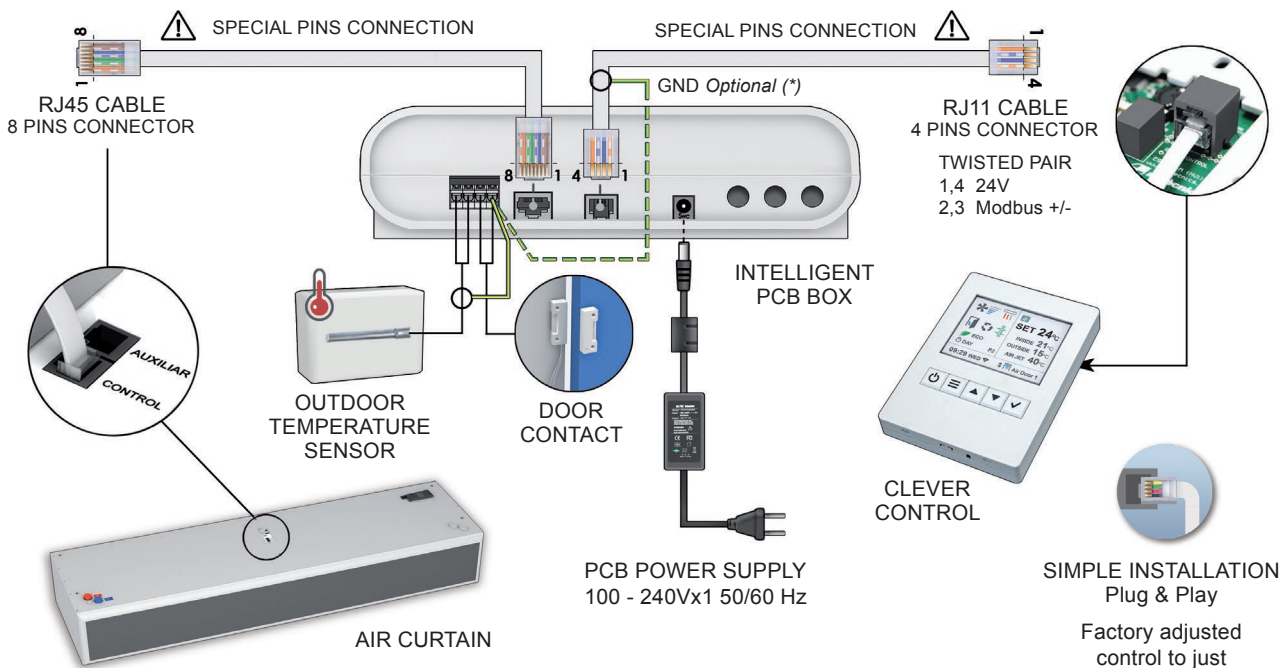
RJ11 + RJ45 Cables

- Easy Plug & Play installation
- RJ11 (4 Pins), 7m length
- RJ45 (8 Pins), provided with the air curtain



Door Contact

- Monitoring Door Status
- Magnetic contact

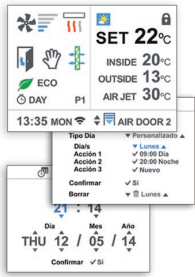


(*) If there are communication issues (interferences), use shielded cable connected to GND



Clever control includes lots of advanced functions and extras to fulfill all client needs.

Advanced functions:



USER FRIENDLY DESIGN

Multilanguage and easy icons for fully 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: user, basic or advanced.



ENERGY SAVING

3 grades of comfort and energy efficiency: "Eco" uses the less energy possible without compromising too much the comfort. "Comfort" spends more ventilation/heating to maintain / achieve quicker the Set temperature. "Medium" is in between.



ADAPTIVE DOOR DELAY

When the door closes, the air curtain remains working at door open conditions for certain time to be ready if it opens again.
2 modes with two strength stages: "Fixed" where you define the duration "Flexible" which adapts automatically the time depending on how often the door is open.



TIMER (DAY/NIGHT)

To turn ON DAY, ON NIGHT 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 in order to save energy.



COMPATIBLE

Android or Apple smartphone application with user functions connected via WIFI.
BMS communication with Modbus RTU protocol or using digital and analogical IN/OUT to control or monitor directly the unit. Modbus TCP/Bluetooth optional modules. PC Windows program (RS485).



FILTER ALARM

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



FULLY PROGRAMMABLE

All parameters can be configured at Basic or Advanced menu.
Lots of extra functions to fulfill all clients applications. Editable 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.
One Clever TFT can manage up to 255 different units, each one with its own program.

Other Characteristics:

- Clever 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
- Different 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



Optima
Installation in
a shop entrance



Windbox
In a chain restaurant



Dam
With smooth front panel
in a shop



Windbox
Invisible Installation
with false ceiling kit



Recessed Windbox
Designed to be installed
in a false ceiling



Invisair
Invisible inbuilt Column
or bulkhead air curtain



Zen
With aluminum panels
in an office building



Zen
Exclusive design and
custom finishes



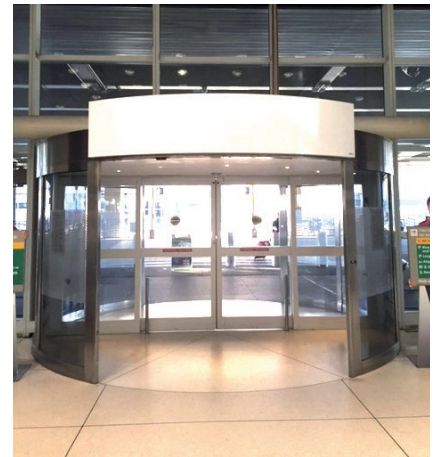
Zen
With wood panels in
a restaurant



Rund
Vertical stainless steel
in a big mall entrance



Rund
Multiple installation
covering long distances



Rotowind
Revolving door
in an international airport



Rotowind
Tailor-made for any
revolving door



Kool
Cold chamber in a food factory



Windbox L
Multiple installation
in an industrial door

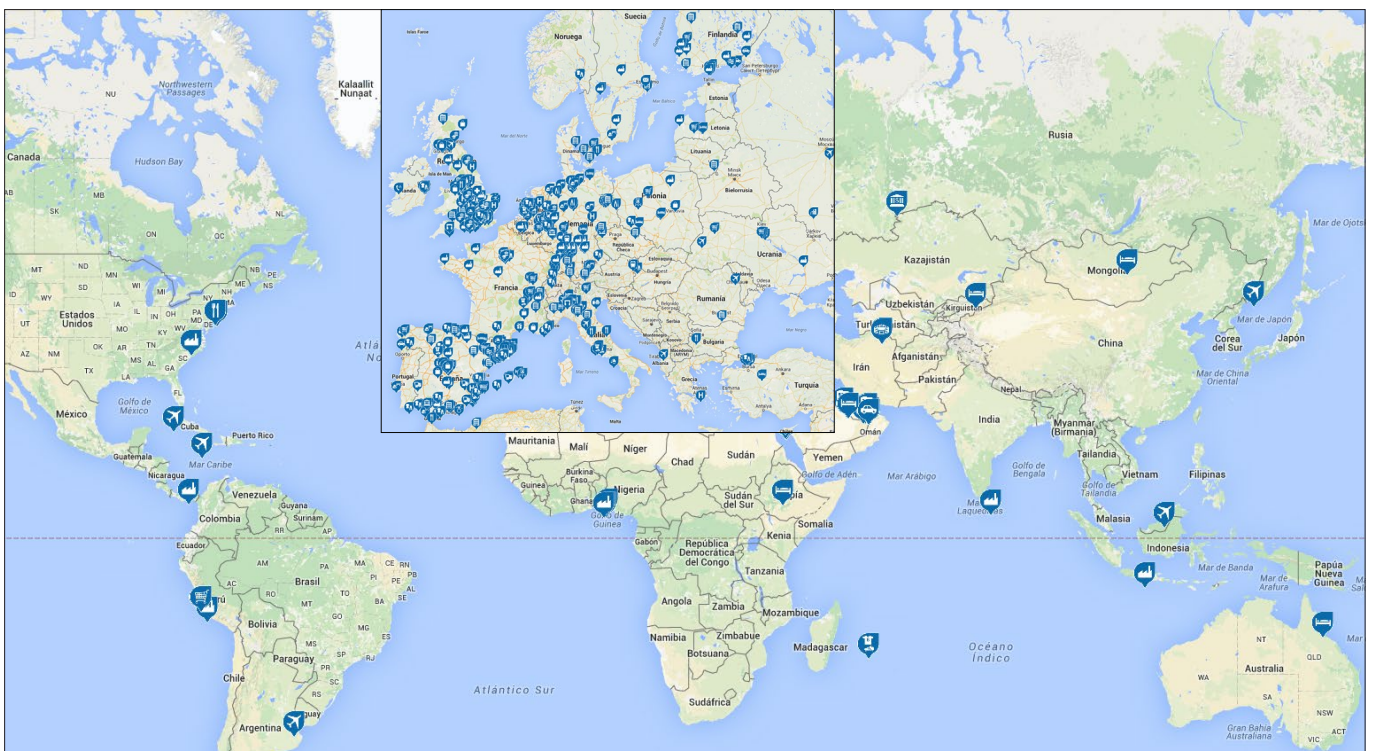


Max
Modular towers on
large industrial doors

FEATURED REFERENCES



Producing for Worldwide Brands





Public Buildings



Buildings

- Alhambra (Granada, Spain)
- Royal Courts of Justice (London, UK)
- Riffa King Palace (Manama, Bahrain)
- Fire Brigade headquarters (London, UK)
- O2 Space (Dublin, Ireland)
- Expo Georgia (Tbilisi, Georgia)
- Darwen Leisure Centre (Darwen, UK)
- Park Pavilion (London, UK)
- La Defense (Paris, France)
- Forum (Barcelona, Spain)
- Expo 2015 (Milan, Italy)
- National Audit Office (London, UK)
- Centre des Conventions (Oran, Algiers)
- Roca Gallery (London, UK)
- Expo Ourense (Ourense, Spain)
- Repsol Auditorio (Madrid, Spain)
- Palace of the United Nations (Geneva, Switzerland)
- Palacio de Ferias y Congresos (Málaga, Spain)
- Generalitat de Catalunya (Barcelona, Spain)
- Congreso de los Diputados (Madrid, Spain)
- Prefecture Des Yvelines (Versailles, France)
- Palacio Euskalduna Jauregia (Bilbao, Spain)
- Comissaria Mossos d'Esquadra (Amposta, Spain)
- Commissariat de Police (Aulnay-sous-Bois, France)



Airports

- JFK (New York, USA)
- Gatwick (London, UK)
- El Prat (Barcelona, Spain)
- Heathrow (London, UK)
- Leonardo da Vinci (Roma, Italy)
- Hamad (Doha, Qatar)
- Malpensa (Milan, Italy)
- Vladivostok (Ayrton, Russia)
- Norman Manley (Kingston, Jamaica)
- Danylo Halytskyi (Lviv, Ukraine)
- José Martí (La Habana, Cuba)
- Queen Alia (Amman, Jordan)
- Jorge Newbery (Buenos Aires, Argentina)
- Ashgabat Airport (Ashgabat, Turkmenistan)
- Tirana International Airport (Tirana, Albania)



Train Stations

- Central Station (Vienna, Austria)
- AVE (Lleida, Spain)
- Stratford (London, UK)
- Kings Cross (London, UK)
- Atocha (Madrid, Spain)
- Ebbsfleet (London, UK)
- Haramain Highspeed (Jeddah, Saudi Arabia)
- RENFE Estació de França (Barcelona, Spain)
- FFCC Plaça Catalunya (Barcelona, Spain)



Hospitals

- Barking (London, UK)
- CAP Rambla (Terrassa, Spain)
- Dexeus (Barcelona, Spain)
- Forth Valley (Larbert, Scotland)
- Hygeia (Athens, Greece)
- Mútua (Terrassa, Spain)
- Sant Joan de Déu (Barcelona, Spain)
- Virgen del Castillo (Yecla, Spain)
- Asepeyo (Sant Cugat del Vallès, Spain)
- St. Peters (Chertsey, UK)
- Bellvitge (Hospitalet de Llobregat, Spain)
- Parc Taulí (Sabadell, Spain)



Colleges / Universities

- Hope (Liverpool, UK)
- Imperial (London, UK)
- Redbridge (Romford, UK)
- San Pablo CEU (Madrid, Spain)
- Blanquerna (Barcelona, Spain)
- Colegio Americano (Madrid, Spain)
- Evelyn Grace (London, UK)
- James Watt (Greenock, UK)
- National Physics Technology Science Centre (Vilnius, Lithuania)
- Liverpool University (Liverpool, UK)



Museums

- Louvre (Paris, France)
- Picasso (Barcelona, Spain)
- MNAC (Barcelona, Spain)
- Victoria Gallery (Liverpool, UK)
- Palacio de Carlos V (Granada, Spain)
- People's History (Manchester, UK)
- Bob Marley (Kingston, Jamaica)
- Arts Santa Mónica (Barcelona, Spain)
- Palacio Real (Madrid, Spain)



Theaters

- National Theatre (London, UK)
- Teatro de la Zarzuela (Madrid, Spain)
- Royal Albert Hall (London, UK)



Chains



Stores

- Apple headquarters (London, UK)
- Media Markt (Badajoz, Spain)
- Ikea (Växsjö, Sweden)
- Leroy Merlin (Valladolid, Spain)
- FNAC (Zaragoza, Spain)
- T Mobile (Schwäbisch Hall, Germany)
- Adidas (Barcelona, Spain)
- Vodafone (Galway, Ireland)
- Swarovski (Norwich, UK)
- Nike (Dublin, Ireland)
- Sephora (Milan, Italy)
- Kipling (La Roca del Vallès, Spain)
- Dior (Stuttgart, Germany)
- El Corte Inglés (Talavera de la Reina, Spain)
- Decathlon (Sainte-Suzanne, Reunion Island)
- Gillette (Reading, UK)
- Yves Rocher (Amsterdam, Netherlands)
- Alain Afflelou (Barcelona, Spain)



Clothes

- Louis Vuitton (London, UK)
- Mango (Faro, Portugal)
- H&M (Amsterdam, Netherlands)
- Next (Manchester, UK)
- Primark (Madrid, Spain)
- Levi's (Barcelona, Spain)
- Napapijri (Oslo, Norway)
- Zara (Milan, Italy)
- Kiabi (Aubenas, France)
- Calzedonia (Badalona, Spain)
- Massimo Dutti (Berna, Switzerland)
- Le Coq Sportif (Barcelona, Spain)
- Hugo Boss (Dublin, Ireland)
- Marks & Spencer (Glasgow, Scotland)
- Lacoste (Amsterdam, Netherlands)
- Billabong (Barcelona, Spain)
- Desigual (Dublin, Ireland)
- Guess (Barcelona, Spain)
- Pepe Jeans (Amsterdam, Netherlands)
- Stradivarius (Sabadell, Spain)
- C&A (Schwäbisch Hall, Germany)



Shoes

- Crocs (Amsterdam, Netherlands)
- Fila (Amsterdam, Netherlands)
- Fosco (Barcelona, Spain)
- Geox (Madrid, Spain)
- JD Sport King (Rotterdam, Netherlands)
- Foot Locker (Amsterdam, Netherlands)
- Vives (Vic, Spain)



Supermarkets

- Carrefour (Lleida, Spain)
- Aldi (Collado Villalba, Spain)
- Intermarche (Polliat, France)
- Lidl (Bydgoszcz, Poland)
- Tesco (Cheltenham, UK)
- E.Leclerc (Loudun, France)
- Eroski (Sant Cugat del Vallès, Spain)
- Alcampo (A Coruña, Spain)



Food

- McDonald's (Amsterdam, Netherlands)
- Starbucks (Warsaw, Poland)
- Nestlé (Halifax, UK)
- Pizza Hut (Frankfurt, Germany)
- Hard Rock Cafe (Venezia, Italy)
- KFC (Amsterdam, Netherlands)
- Viena (Zaragoza, Spain)
- Häagen-Dazs (Palma de Mallorca, Spain)
- Subway (Rotterdam, Netherlands)
- Fosters Hollywood (Sabadell, Spain)



Cars

- Porsche (Stuttgart, Germany)
- Ford (Almussafes, Spain)
- BMW (Abrera, Spain)
- Nissan (Sunderland, UK)
- Ferrari (Las Rozas, Spain)
- Mercedes (Alcobendas, Spain)
- Citroen (Vigo, Spain)
- Toyota (Madrid, Spain)



Companies



Banks

- Barclays (Leeds, UK)
- Sabadell Atlántico (Palafrugell, Spain)
- Kutxa Bank (Getaria, Spain)
- BBVA Headquarters (Bilbao, Spain)
- La Caixa (Torelló, Spain)
- Lloyds TSB (Northampton, UK)
- Morabank (Andorra la Vella, Andorra)



Factories

- Pepsi (Jeddah, Saudi Arabia)
- Atlas Copco (Köln, Germany)
- Bosch (Barcelona, Spain)
- Pirelli (Milan, Italy)
- Telefónica (Madrid, Spain)
- Tuko Logistics (Kerava, Finland)
- ABB HVDC (Ludvika, Sweden)
- Bristol-Myers Squibb (Paris, France)
- Procter & Gamble (Agbara, Nigeria)
- Würth (Kouvola, Finland)
- Bayer (Esplugues de Llobregat, Spain)
- Siemens Vdo (Abrera, Spain)
- Cadbury (Lagos, Nigeria)
- Basf (Milan, Italy)
- Siemens (Durham, USA)
- Allianz (Madrid, Spain)
- EAM Maliban Textile (Colombo, Sri Lanka)
- Bodega J. García Carrión (Daimiel, Spain)
- Vestas Technology Ltd (Isle of Wight, UK)
- Findus (Pamplona, Spain)



Others

- American Naval Base (Juffar, Bahrain)
- US Army Camp Liberty (Baghdad, Iraq)
- Sarrià Market (Barcelona, Spain)
- Barfoots Ltd Farm (Bognor Regis, UK)
- BBC TV (Cardiff, Wales)
- BFI Imax Cinema (London, UK)
- The Reef Hotel Casino (Cairns, Australia)
- Gran Casino (Barcelona, Spain)
- Nuclear Plant (Saint-Laurent-Nouan, France)
- Ceccato Car Wash (Milan, Italy)
- Spine Tower Carrefour SA (Istanbul, Turkey)

Leisure



Malls / Shopping Centers

- Darinok (Kiev, Ukraine)
- Union Square (Aberdeen, UK)
- Les Arenes (Barcelona, Spain)
- Victoria (Nottingham, UK)
- Orjin Maslak (Istanbul, Turkey)
- Kingsway (Newport, UK)
- Peris XV (Paris, France)
- Albufera (Madrid, Spain)
- Esselunga (Casale Monferrato, Italy)
- El Bulevar (Ávila, Spain)
- Zorlu Center (Istanbul, Turkey)



Hotels

- Hilton (Addis Ababa, Ethiopia)
- Indigo (New York, USA)
- NH (Madrid, Spain)
- Polaris (Ulaanbaatar, Mongolia)
- Novotel Paddington (London, UK)
- Crowne Plaza (Montpellier, France)
- Pegaso (Bergamo, Italy)
- Holiday Inn (Chessington, UK)
- Ritz (Almaty, Kazakhstan)
- NH Las Tablas (Madrid, Spain)
- Wyndham (Doha, Qatar)
- Le Jura (Dijon, France)
- Park Plaza (London, UK)
- Assila Rocco Forte (Jeddah, Saudi Arabia)



Restaurants

- Kyochon (New York, USA)
- Lujó Ibérico (Sabadell, Spain)
- Panorama (Sofia, Bulgaria)
- Tagliatella (Alicante, Spain)
- Atresmedia Café (Madrid, Spain)
- Deserie (Barnet, UK)
- CalaBoca (Sabadell, Spain)
- Filadón (Madrid, Spain)
- Paul Bocuse (Collonges-au-Mont-d'Or, France)
- El Refugi Alpí (Andorra la Vella, Andorra)
- Hatay Medeniyetler Sofrasi (Istanbul, Turkey)
- La Esquina del Bernabéu (Madrid, Spain)



Theme Parks / Sports

- Disneyland (Paris, France)
- Europapark (Rust, Germany)
- Port Aventura (Salou, Spain)
- Camp Nou (Barcelona, Spain)
- San Siro (Milan, Italy)
- Olympic Village (Ashgabat, Turkmenistan)
- Meydan Horse Racing Club (Dubai, UAE)
- Circuit de Catalunya F1 (Montmeló, Spain)



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