



**25**  
YEARS

25th ANNIVERSARY

# PRODUCT CATALOGUE

Edition 2.0

 **js air curtains**  
The UK's Leading Air Curtain Specialist



# About Us



TOP air curtain shown

JS Air Curtains has been supplying a comprehensive range of air curtain solutions to the UK market since 1999.

Our wide range of quality air curtain solutions cover everything from economical units for small doorways, to large industrial units for warehouses.

From standard air curtains available in custom colours, to individually crafted bespoke units that meet architectural designs for prestigious buildings, we deliver solutions that combine performance with style.

Based in Chichester, West Sussex, we offer expert advice on air curtain projects system design and installation, with service and after-sales support.

If you have any questions or need any help finding the right solution, please get in touch.

Call: 0333 0384240  
Email: [sales@jsaircurtains.com](mailto:sales@jsaircurtains.com)  
www: [www.jsaircurtains.com](http://www.jsaircurtains.com)

Whilst every effort is made to ensure details are correct at time of print, these are for guidance and remain subject to change.



## Expert advice

Experienced applications engineers will provide technical advice in all aspects of air curtain design and specification, with CAD drawings, BIM files and CFD modelling available.



## Online air curtain selector tool

This tool will guide you to select products from our range that may be appropriate for your project. Visit: [jsaircurtains.com/selector](http://jsaircurtains.com/selector) to find out more.



## Comprehensive product range

Our wide range covers everything from economical air curtains, to large industrial units, and fully customised designer solutions.



## Free CIBSE approved CPD seminar

An informative one hour lunchtime seminar providing an effective understanding on air curtains for installers and specifiers. Book a date at [jsaircurtains.com/cpd](http://jsaircurtains.com/cpd).

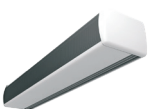
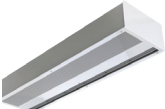


**CPD providers**



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## CONTROLLERS

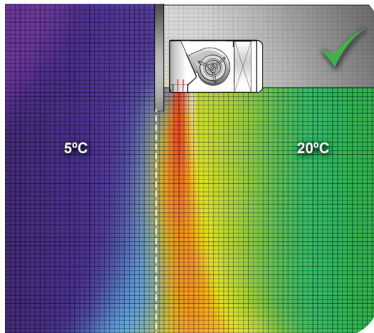
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# Introduction

## What is an air curtain?

Air curtains seal an entrance with an invisible barrier of air, preventing cold air entering in the winter and conditioned air escaping in the summer, whilst the door is open.



## Why use air curtains?

Suitable for retail, commercial and industrial sites, air curtains will lower a building's energy consumption all year round as internal temperatures are maintained and a building's energy costs reduce. They can be mounted horizontally above the entrance or installed vertically at the side.

Air curtains can increase profitability by allowing 'open-door' trading while improving customer and staff comfort. When used in industrial environments, they can make heated areas, with large, frequently open doorways, comfortable and improve safety by having no physical obstructions.



## Benefits of air curtains



### Energy Efficiency

- Minimises energy consumption and reduces operational costs of the premises.
- Decreases the capacity required for central heating and cooling systems.
- Lowers CO2 emissions.
- Ensures compliance with relevant regulations and certifications.



### Enhanced Safety

- Improves visibility and eliminates obstacles.
- Facilitates safe and easy evacuation during emergencies.
- In cold rooms, reduces misting and prevents ice formation.
- Functions as a barrier against fire smoke in special applications.



### Commercial Benefits

- Boosts sales by leveraging the "open door effect."
- Transforms the doorway into an attractive showcase display.
- Enhances accessibility for individuals using wheelchairs, strollers, or umbrellas.
- Expands usable entrance space for a more welcoming environment.

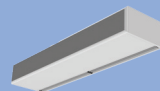
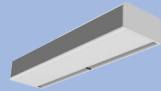
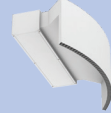
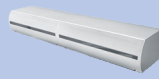
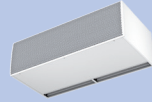
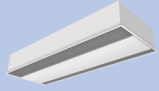
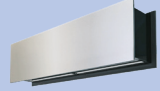
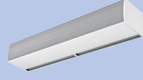
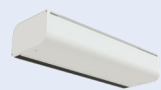
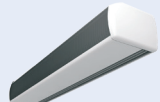
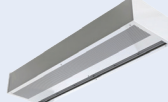


### Comfort and Health

- Improves comfort for both customers and staff.
- Supports better air quality and a well regulated environment.
- Acts as a barrier against pests, insects, dust, pollution, fumes, and unpleasant odours.



# Selection Guide

|                   |                                                                                                             |                                                                                                    |                                                                                                        |                                                                                                              |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Door height<br>6m | <br>Maxwell                | <br>VCP           | 7m                                                                                                     | <br>Industrial Windbox (XL) |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |
| 5m                | <br>Industrial Windbox (L) |                                                                                                    |                                                                                                        |                                                                                                              |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |
| 4.2m              | <br>Finesse                | <br>Invisair      | <br>Rotowind          | <br>Rund                    | <br>Smart | <br>Standesse | <br>Windbox | <br>Recessed Windbox |
|                   | <br>Zen                    | <br>DAM           | <br>KOOL              |                                                                                                              |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |
| 3.5m              | <br>Aris                   |                                                                                                    |                                                                                                        |                                                                                                              |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |
| 2.8m              | <br>Essensse Neo         | <br>Mini Optima | <br>Recessed Optima | <br>TOP                   |                                                                                            |                                                                                                 |                                                                                                |                                                                                                         |

The maximum height of installation depends on the conditions of the premises.

| Model                 | Page  | Exposed | Recessed | Revolving | Vertical | Horizontal | Cold store | Commercial/<br>Public building/ | Industrial/<br>Warehouse | EC fan<br>option | Clever control<br>option |
|-----------------------|-------|---------|----------|-----------|----------|------------|------------|---------------------------------|--------------------------|------------------|--------------------------|
| RUND                  | 6-7   | •       |          | •         | •        | •          |            | •                               |                          | •                | •                        |
| ZEN                   | 8-9   | •       |          |           | •        | •          |            | •                               |                          | •                | •                        |
| WINDBOX               | 10-11 | •       |          |           | •        | •          |            | •                               |                          | •                | •                        |
| SMART                 | 12-13 | •       |          |           |          | •          |            | •                               |                          | •                | •                        |
| ESSENSSE NEO          | 14-15 | •       |          |           |          | •          |            | •                               |                          | •                |                          |
| MINI OPTIMA           | 16-17 | •       |          |           |          | •          |            | •                               |                          |                  | •                        |
| ARIS                  | 18-19 | •       |          |           |          | •          |            | •                               |                          |                  | •                        |
| STANDESSE             | 20-21 | •       |          |           |          | •          |            | •                               |                          | •                |                          |
| DAM                   | 22-25 | •       |          |           | •        | •          |            | •                               |                          | •                | •                        |
| TOP                   | 30-31 | •       |          |           |          | •          |            | •                               |                          |                  | •                        |
| RECESSED OPTIMA       | 32-33 |         | •        |           |          | •          |            | •                               |                          |                  | •                        |
| FINESSE               | 34-35 |         | •        |           |          | •          |            | •                               |                          | •                |                          |
| RECESSED WINDBOX      | 36-37 |         | •        |           |          | •          |            | •                               |                          | •                | •                        |
| INVISAIR              | 38-39 |         | •        |           | •        | •          |            | •                               |                          | •                | •                        |
| ROTOWIND              | 40-41 | •       | •        | •         |          | •          |            | •                               |                          | •                | •                        |
| MAXWELL               | 42-43 | •       |          |           | •        | •          |            |                                 | •                        |                  | •                        |
| VCP                   | 44-45 | •       |          |           | •        | •          |            |                                 | •                        | •                |                          |
| INDUSTRIAL<br>WINDBOX | 46-47 | •       |          |           | •        | •          | •          |                                 | •                        |                  | •                        |
| KOOL                  | 48-49 | •       |          |           | •        | •          | •          |                                 | •                        | •                | •                        |
| FLY                   | 50-51 | •       |          |           |          | •          |            | •                               |                          |                  |                          |

# Rund

The Rund air curtain is a popular choice with architects. It has an extremely attractive cylindrical design with a faceted casing, which can be fitted in many different mounting or suspension options, to compliment an entrance's structural design.

Low noise, centrifugal double inlet fans are driven by an external rotor motor with a built-in thermal protection contact. The perforated inlet grilles have filter functions that are easy to maintain. The anodised aluminium lamellas are aerofoil shaped and are adjustable.

The Rund can be mounted end-to-end, accommodating very wide entrances such as shopping centres, airports or sports arenas.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Silver RAL9006 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



## Air Only

| Model           | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| RUND M 1000 A   | 3.5                     | 1980            | 0.318 / 1.41                        | 55                      | 42          |
| RUND M 1500 A   | 3.5                     | 2640            | 0.424 / 1.88                        | 56                      | 63          |
| RUND M 2000 A   | 3.5                     | 3960            | 0.636 / 2.82                        | 57                      | 79          |
| RUND M 2500 A   | 3.5                     | 4620            | 0.742 / 3.29                        | 58                      | 88          |
| RUND M 3000 A   | 3.5                     | 5280            | 0.848 / 3.76                        | 59                      | 99          |
| RUND G 1000 A   | 3.8                     | 2400            | 0.642 / 2.85                        | 57                      | 46          |
| RUND G 1500 A   | 3.8                     | 3200            | 0.856 / 3.80                        | 58                      | 68          |
| RUND G 2000 A   | 3.8                     | 4800            | 1.284 / 5.70                        | 59                      | 89          |
| RUND G 2500 A   | 3.8                     | 5600            | 1.498 / 6.65                        | 60                      | 98          |
| RUND G 3000 A   | 3.8                     | 6400            | 1.712 / 7.60                        | 61                      | 108         |
| RUND ECG 1000 A | 4.2                     | 2700            | 0.225 / 1.95                        | 61                      | 46          |
| RUND ECG 1500 A | 4.2                     | 3600            | 0.300 / 2.60                        | 62                      | 68          |
| RUND ECG 2000 A | 4.2                     | 5400            | 0.450 / 3.90                        | 63                      | 89          |
| RUND ECG 2500 A | 4.2                     | 6300            | 0.525 / 4.55                        | 64                      | 98          |
| RUND ECG 3000 A | 4.2                     | 7200            | 0.600 / 5.20                        | 65                      | 108         |

\*Tested to Amca 220-05

## Electrically Heated

| Model           | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| RUND M 1000 E   | 3.5                     | 1980            | 9                                             | 0.318 / 1.41                        | 55                      | 49          |
| RUND M 1500 E   | 3.5                     | 2640            | 12                                            | 0.424 / 1.88                        | 56                      | 75          |
| RUND M 2000 E   | 3.5                     | 3960            | 18                                            | 0.636 / 2.82                        | 57                      | 97          |
| RUND M 2500 E   | 3.5                     | 4620            | 18                                            | 0.742 / 3.29                        | 58                      | 108         |
| RUND M 3000 E   | 3.5                     | 5280            | 24                                            | 0.848 / 3.76                        | 59                      | 119         |
| RUND G 1000 E   | 3.8                     | 2400            | 15                                            | 0.642 / 2.85                        | 57                      | 54          |
| RUND G 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856 / 3.80                        | 58                      | 81          |
| RUND G 2000 E   | 3.8                     | 4800            | 30                                            | 1.284 / 5.70                        | 59                      | 107         |
| RUND G 2500 E   | 3.8                     | 5600            | 30                                            | 1.498 / 6.65                        | 60                      | 118         |
| RUND G 3000 E   | 3.8                     | 6400            | 30                                            | 1.712 / 7.60                        | 61                      | 128         |
| RUND ECG 1000 E | 4.2                     | 2700            | 15                                            | 0.225 / 1.95                        | 61                      | 54          |
| RUND ECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300 / 2.60                        | 62                      | 81          |
| RUND ECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450 / 3.90                        | 63                      | 107         |
| RUND ECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525 / 4.55                        | 64                      | 118         |
| RUND ECG 3000 E | 4.2                     | 7200            | 30                                            | 0.600 / 5.20                        | 65                      | 128         |



## Water Heated

| Model           | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|-----------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| RUND M 1000 P   | 3.5                      | 1860           | 9.84                                  | 1000                               | 9.22                                  | 4990                               | -                                     | -                                  | 0.318/1.41                            | 55                  | 47          |
| RUND M 1500 P   | 3.5                      | 2480           | 14.23                                 | 760                                | 13.65                                 | 6430                               | -                                     | -                                  | 0.424/1.88                            | 56                  | 71          |
| RUND M 2000 P   | 3.5                      | 3720           | 22.17                                 | 2190                               | 19.7                                  | 5470                               | -                                     | -                                  | 0.636/2.82                            | 57                  | 90          |
| RUND M 2500 P   | 3.5                      | 4340           | 27.69                                 | 4000                               | 23.48                                 | 4060                               | -                                     | -                                  | 0.742/3.29                            | 58                  | 101         |
| RUND M 3000 P   | 3.5                      | 4960           | 33.15                                 | 6560                               | 28.29                                 | 6730                               | -                                     | -                                  | 0.848/3.76                            | 59                  | 112         |
| RUND G 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642/2.85                            | 57                  | 52          |
| RUND G 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856/3.80                            | 58                  | 77          |
| RUND G 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284/5.70                            | 59                  | 100         |
| RUND G 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498/6.65                            | 60                  | 109         |
| RUND G 3000 P   | 3.8                      | 6000           | 37.35                                 | 8110                               | 32.1                                  | 8410                               | 34.03                                 | 7180                               | 1.712/7.60                            | 61                  | 119         |
| RUND ECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225/1.95                            | 61                  | 52          |
| RUND ECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300/2.60                            | 62                  | 77          |
| RUND ECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450/3.90                            | 63                  | 100         |
| RUND ECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525/4.55                            | 64                  | 109         |
| RUND ECG 3000 P | 4.2                      | 6800           | 40.34                                 | 9290                               | 34.81                                 | 9710                               | 37.16                                 | 8400                               | 0.600/5.20                            | 65                  | 119         |

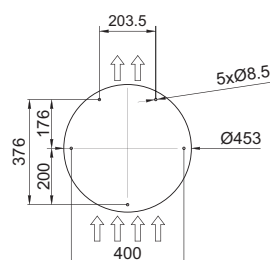
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.  
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

## Layouts and Dimensions

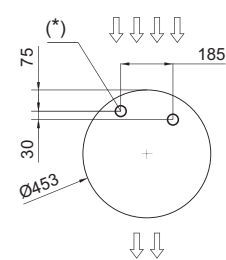
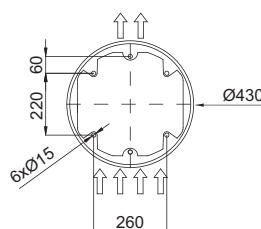
### Vertical installation



### Floor fixing points without foot

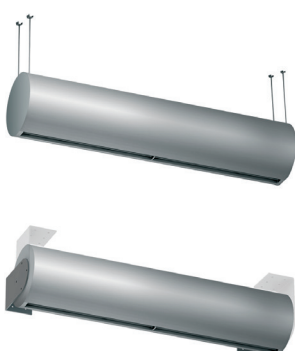


### Floor fixing points with foot



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

### Horizontal installation



### Ceiling mounted with threaded rods



### Wall/ceiling mounted with angle supports



### Wall mounted with lateral arms



### Wall/ceiling mounted through arms

### Floor mounted (goalpost)

# Zen

This designer, minimalist air curtain can be fitted with almost any type of custom fascia panels. Limitless finish options include any classic RAL colour, materials such as wood, stone, or embossed vinyl, corporate logos, lettering, functioning clocks, or signage. Let your inner designer go wild!

Unlike the conventional air curtain arrangement where air is discharged at right angles to the air inlet assembly, the air intake and discharge grille are in the same plane so air flows through the unit in a straight line.

The Zen is suitable for medium to large sized premises and, as they can be mounted end-to-end, they can accommodate very wide entrances such as shopping centres, airports or sports arenas.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

Anodised aluminium front panels, black forge central structure, other options available



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m  
Options to join 2 units



## Air Only

| Model          | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| ZEN M 1000 A   | 3.5                     | 1980            | 0.318/1.41                          | 55                      | 32          |
| ZEN M 1500 A   | 3.5                     | 2640            | 0.424/1.88                          | 56                      | 46          |
| ZEN M 2000 A   | 3.5                     | 3960            | 0.636/2.82                          | 57                      | 62          |
| ZEN M 2500 A   | 3.5                     | 4620            | 0.742/3.29                          | 58                      | 75          |
| ZEN G 1000 A   | 3.8                     | 2400            | 0.642/2.85                          | 57                      | 36          |
| ZEN G 1500 A   | 3.8                     | 3200            | 0.856/3.80                          | 58                      | 50          |
| ZEN G 2000 A   | 3.8                     | 4800            | 1.284/5.70                          | 59                      | 69          |
| ZEN G 2500 A   | 3.8                     | 5600            | 1.498/6.65                          | 60                      | 83          |
| ZEN ECG 1000 A | 4.2                     | 2700            | 0.225/1.95                          | 61                      | 36          |
| ZEN ECG 1500 A | 4.2                     | 3600            | 0.300/2.60                          | 62                      | 50          |
| ZEN ECG 2000 A | 4.2                     | 5400            | 0.450/3.90                          | 63                      | 69          |
| ZEN ECG 2500 A | 4.2                     | 6300            | 0.525/4.55                          | 64                      | 83          |

\*Airflow tested to Amca 220-05

## Electrically Heated

| Model          | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| ZEN M 1000 E   | 3.5                     | 1980            | 9                                             | 0.318/1.41                          | 55                      | 40          |
| ZEN M 1500 E   | 3.5                     | 2640            | 12                                            | 0.424/1.88                          | 56                      | 58          |
| ZEN M 2000 E   | 3.5                     | 3960            | 18                                            | 0.636/2.82                          | 57                      | 77          |
| ZEN M 2500 E   | 3.5                     | 4620            | 18                                            | 0.742/3.29                          | 58                      | 94          |
| ZEN G 1000 E   | 3.8                     | 2400            | 15                                            | 0.642/2.85                          | 57                      | 43          |
| ZEN G 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856/3.80                          | 58                      | 62          |
| ZEN G 2000 E   | 3.8                     | 4800            | 30                                            | 1.284/5.70                          | 59                      | 85          |
| ZEN G 2500 E   | 3.8                     | 5600            | 30                                            | 1.498/6.65                          | 60                      | 103         |
| ZEN ECG 1000 E | 4.2                     | 2700            | 15                                            | 0.225/1.95                          | 61                      | 43          |
| ZEN ECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300/2.60                          | 62                      | 62          |
| ZEN ECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450/3.90                          | 63                      | 85          |
| ZEN ECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525/4.55                          | 64                      | 103         |

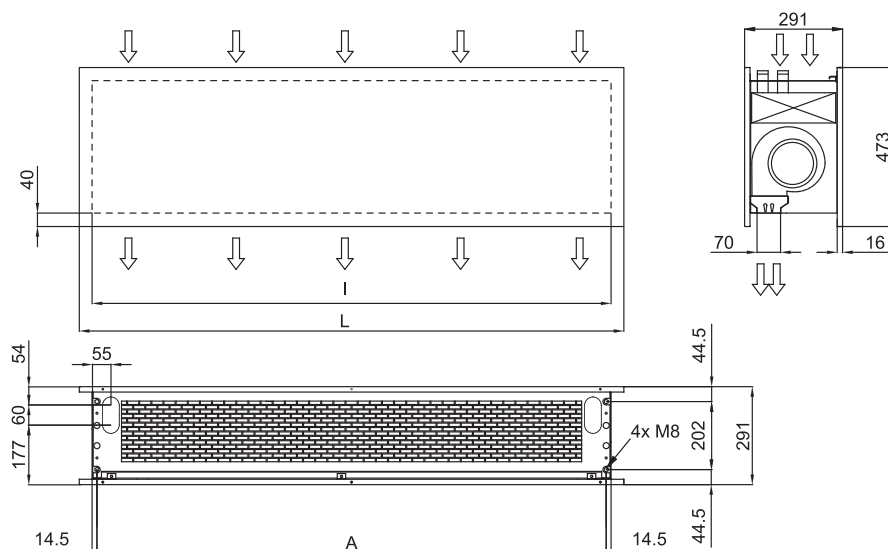


## Water Heated

| Model          | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|----------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| ZEN M 1000 P   | 3.5                      | 1860           | 9.04                                  | 1000                               | 9.22                                  | 4990                               | -                                     | -                                  | 0.318/1.41                            | 55                  | 37          |
| ZEN M 1500 P   | 3.5                      | 2480           | 14.23                                 | 760                                | 13.65                                 | 6430                               | -                                     | -                                  | 0.424/1.88                            | 56                  | 53          |
| ZEN M 2000 P   | 3.5                      | 3720           | 22.17                                 | 2190                               | 19.7                                  | 5470                               | -                                     | -                                  | 0.636/2.82                            | 57                  | 71          |
| ZEN M 2500 P   | 3.5                      | 4340           | 27.69                                 | 4000                               | 23.48                                 | 4060                               | -                                     | -                                  | 0.742/3.29                            | 58                  | 86          |
| ZEN G 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642/2.85                            | 57                  | 40          |
| ZEN G 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856/3.80                            | 58                  | 57          |
| ZEN G 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284/5.70                            | 59                  | 78          |
| ZEN G 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498/6.65                            | 60                  | 95          |
| ZEN ECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225/1.95                            | 61                  | 40          |
| ZEN ECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300/2.60                            | 62                  | 57          |
| ZEN ECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450/3.90                            | 63                  | 78          |
| ZEN ECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525/4.55                            | 64                  | 95          |

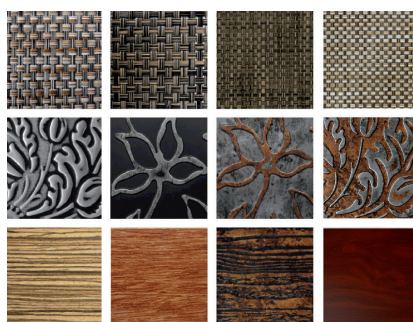
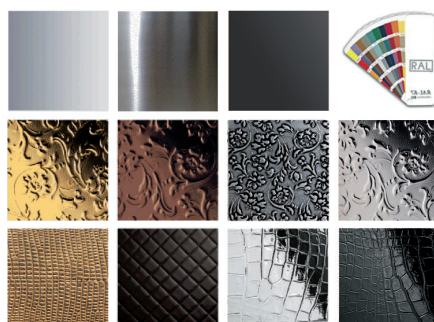
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.  
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

## Layouts and Dimensions



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

## Examples of finishes



- Any classic 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.

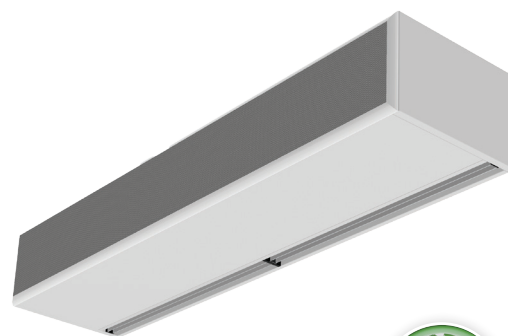
# Windbox

The Windbox offers a functional design with many features, from energy saving controls to special finishes.

Low noise centrifugal double inlet fans are driven by an external rotor motor with a built in thermal protection contact. The perforated inlet grilles have filter functions that are easy to maintain. A low turbulence discharge nozzle with a double blow-out vane is aerofoil shaped and can be adjustable from 0 to 15° on either side.

The Windbox is suitable for medium to large sized premises and, as they can be mounted end-to-end, they can accommodate very wide entrances such as shopping centres, airports or sports arenas.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



## Air Only

| Model      | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| M 1000     | 3.5                     | 1800            | 0.212/0.94                          | 55                      | 31          |
| M 1500 A   | 3.5                     | 2700            | 0.318/1.41                          | 56                      | 46          |
| M 2000 A   | 3.5                     | 3600            | 0.424/1.88                          | 57                      | 58          |
| M 2500 A   | 3.5                     | 4500            | 0.530/2.35                          | 58                      | 72          |
| M 3000 A   | 3.5                     | 5400            | 0.636/2.82                          | 59                      | 86          |
| ECM 1000 A | 3.5                     | 1840            | 0.132/1.14                          | 56                      | 31          |
| ECM 1500 A | 3.5                     | 2760            | 0.198/1.71                          | 57                      | 46          |
| ECM 2000 A | 3.5                     | 3680            | 0.264/2.28                          | 58                      | 58          |
| ECM 2500 A | 3.5                     | 4600            | 0.330/2.85                          | 59                      | 72          |
| ECM 3000 A | 3.5                     | 5520            | 0.396/3.42                          | 60                      | 86          |
| G 1000 A   | 3.8                     | 2400            | 0.642/2.85                          | 57                      | 43          |
| G 1500 A   | 3.8                     | 3200            | 0.856/3.80                          | 58                      | 51          |
| G 2000 A   | 3.8                     | 4800            | 1.284/5.70                          | 59                      | 80          |
| G 2500 A   | 3.8                     | 5600            | 1.498/6.65                          | 60                      | 84          |
| G 3000 A   | 3.8                     | 6400            | 1.712/7.60                          | 61                      | 95          |
| ECG 1000 A | 4.2                     | 2700            | 0.225/1.95                          | 61                      | 43          |
| ECG 1500 A | 4.2                     | 3600            | 0.300/2.60                          | 62                      | 51          |
| ECG 2000 A | 4.2                     | 5400            | 0.450/3.90                          | 63                      | 80          |
| ECG 2500 A | 4.2                     | 6300            | 0.525/4.55                          | 64                      | 84          |
| ECG 3000 A | 4.2                     | 7200            | 0.600/5.20                          | 65                      | 95          |

\*Tested to Amca 220-05

## Electrically Heated

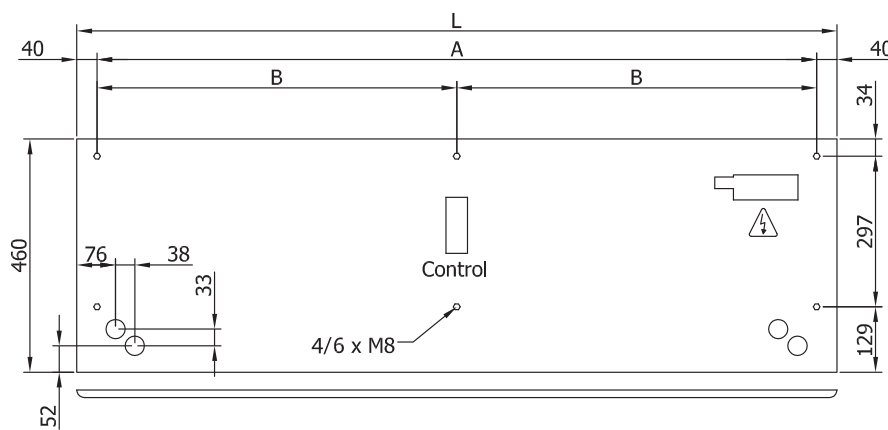
| Model      | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| M 1000 E   | 3.5                     | 1800            | 9                                             | 0.212 / 0.94                        | 55                      | 37          |
| M 1500 E   | 3.5                     | 2700            | 12                                            | 0.318 / 1.41                        | 56                      | 57          |
| M 2000 E   | 3.5                     | 3600            | 18                                            | 0.424 / 1.88                        | 57                      | 75          |
| M 2500 E   | 3.5                     | 4500            | 18                                            | 0.530 / 2.35                        | 58                      | 94          |
| M 3000 E   | 3.5                     | 5400            | 24                                            | 0.636 / 2.82                        | 59                      | 112         |
| ECM 1000 E | 3.5                     | 1840            | 9                                             | 0.132 / 1.14                        | 56                      | 37          |
| ECM 1500 E | 3.5                     | 2760            | 12                                            | 0.198 / 1.71                        | 57                      | 57          |
| ECM 2000 E | 3.5                     | 3680            | 18                                            | 0.264 / 2.28                        | 58                      | 75          |
| ECM 2500 E | 3.5                     | 4600            | 18                                            | 0.330 / 2.85                        | 59                      | 94          |
| ECM 3000 E | 3.5                     | 5520            | 24                                            | 0.396 / 3.42                        | 60                      | 112         |
| G 1000 E   | 3.8                     | 2400            | 15                                            | 0.642 / 2.85                        | 57                      | 52          |
| G 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856 / 3.80                        | 58                      | 63          |
| G 2000 E   | 3.8                     | 4800            | 30                                            | 1.284 / 5.70                        | 59                      | 100         |
| G 2500 E   | 3.8                     | 5600            | 30                                            | 1.498 / 6.65                        | 60                      | 106         |
| G 3000 E   | 3.8                     | 6400            | 30                                            | 1.712 / 7.60                        | 61                      | 120         |
| ECG 1000 E | 4.2                     | 2700            | 15                                            | 0.225 / 1.95                        | 61                      | 52          |
| ECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300 / 2.60                        | 62                      | 63          |
| ECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450 / 3.90                        | 63                      | 100         |
| ECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525 / 4.55                        | 64                      | 106         |
| ECG 3000 E | 4.2                     | 7200            | 30                                            | 0.600 / 5.20                        | 65                      | 120         |



| Model      | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| M 1000 P   | 3.5                      | 1660           | 9.17                                  | 880                                | 8.56                                  | 4370                               | 8.52                                  | 1220                               | 0.428 / 1.90                          | 56                  | 35          |
| M 1500 P   | 3.5                      | 2490           | 14.26                                 | 750                                | 13.69                                 | 6460                               | 14.34                                 | 4480                               | 0.642 / 2.85                          | 57                  | 53          |
| M 2000 P   | 3.5                      | 3320           | 20.65                                 | 1930                               | 18.26                                 | 4790                               | 18.65                                 | 2060                               | 0.856 / 3.80                          | 58                  | 69          |
| M 2500 P   | 3.5                      | 4150           | 26.92                                 | 3810                               | 22.12                                 | 3850                               | 24.32                                 | 4040                               | 1.070 / 4.75                          | 59                  | 86          |
| M 3000 P   | 3.5                      | 4980           | 33.24                                 | 6590                               | 28.37                                 | 6760                               | 29.77                                 | 5660                               | 1.280 / 5.70                          | 60                  | 103         |
| ECM 1000 P | 3.5                      | 1720           | 9.38                                  | 920                                | 8.77                                  | 4560                               | 8.74                                  | 1280                               | 0.132 / 1.14                          | 56                  | 35          |
| ECM 1500 P | 3.5                      | 2580           | 14.58                                 | 790                                | 14.02                                 | 6730                               | 14.71                                 | 4690                               | 0.198 / 1.71                          | 57                  | 53          |
| ECM 2000 P | 3.5                      | 3440           | 21.12                                 | 2010                               | 18.7                                  | 4990                               | 19.13                                 | 2150                               | 0.264 / 2.28                          | 58                  | 69          |
| ECM 2500 P | 3.5                      | 4300           | 27.53                                 | 3960                               | 23.33                                 | 4010                               | 24.95                                 | 4230                               | 0.330 / 2.85                          | 59                  | 86          |
| ECM 3000 P | 3.5                      | 5160           | 40                                    | 6860                               | 29.05                                 | 7050                               | 30.54                                 | 5920                               | 0.396 / 3.42                          | 60                  | 103         |
| G 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642 / 2.85                          | 57                  | 50          |
| G 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856 / 3.80                          | 58                  | 59          |
| G 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284 / 5.70                          | 59                  | 92          |
| G 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498 / 6.65                          | 60                  | 96          |
| G 3000 P   | 3.8                      | 6000           | 37.35                                 | 8110                               | 32.1                                  | 8410                               | 34.03                                 | 7180                               | 1.712 / 7.60                          | 61                  | 109         |
| ECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225 / 1.95                          | 61                  | 50          |
| ECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300 / 2.60                          | 62                  | 59          |
| ECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450 / 3.90                          | 63                  | 92          |
| ECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525 / 4.55                          | 64                  | 96          |
| ECG 3000 P | 4.2                      | 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. \*Tested to Amca 220-05

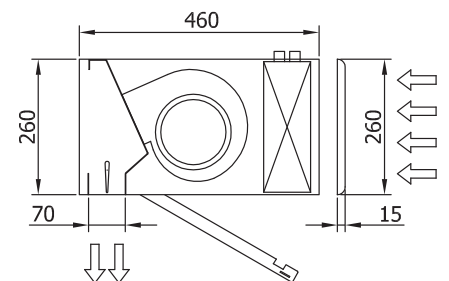
## Layouts and Dimensions



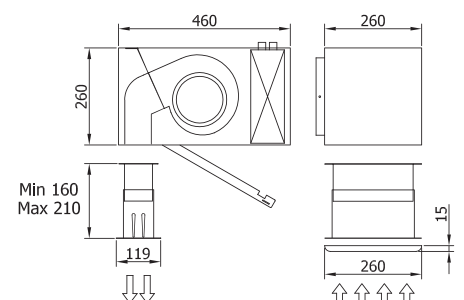
Free hanging mounting



Concealed mounting



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



# Smart

The Smart air curtain offers a stylish, discreet and contemporary design that blends effortlessly into any interior.

The smooth front panel hides the air intake grille from view which can be customised to client requirements, for example with logos, lighting or safety information. Low noise centrifugal inlet fans are driven by an external rotor motor with a built in thermal protection contact.

This air curtain is suitable for commercial and industrial buildings. Using air curtains in these types of situations makes internal temperature control more practical, as heat loss through these often open doors is significantly reduced.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m  
3.0m



## Air Only

| Model            | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| SMART M 1000 A   | 3.5                     | 1800            | 0.212 / 0.94                        | 53                      | 34          |
| SMART M 1500 A   | 3.5                     | 2700            | 0.318 / 1.41                        | 54                      | 50          |
| SMART M 2000 A   | 3.5                     | 3600            | 0.424 / 1.88                        | 55                      | 62          |
| SMART M 2500 A   | 3.5                     | 4500            | 0.530 / 2.35                        | 56                      | 66          |
| SMART M 3000 A   | 3.5                     | 5400            | 0.636 / 2.82                        | 57                      | 76          |
| SMART ECM 1000 A | 3.5                     | 1840            | 0.132 / 1.14                        | 54                      | 34          |
| SMART ECM 1500 A | 3.5                     | 2760            | 0.198 / 1.71                        | 55                      | 50          |
| SMART ECM 2000 A | 3.5                     | 3680            | 0.264 / 2.28                        | 56                      | 62          |
| SMART ECM 2500 A | 3.5                     | 4600            | 0.330 / 2.85                        | 57                      | 66          |
| SMART ECM 3000 A | 3.5                     | 5520            | 0.396 / 3.42                        | 58                      | 76          |
| SMART G 1000 A   | 3.8                     | 2400            | 0.642 / 2.85                        | 55                      | 38          |
| SMART G 1500 A   | 3.8                     | 3200            | 0.856 / 3.80                        | 56                      | 55          |
| SMART G 2000 A   | 3.8                     | 4800            | 1.284 / 5.70                        | 57                      | 72          |
| SMART G 2500 A   | 3.8                     | 5600            | 1.498 / 6.65                        | 58                      | 76          |
| SMART G 3000 A   | 3.8                     | 6400            | 1.712 / 7.60                        | 59                      | 86          |
| SMART ECG 1000 A | 4.2                     | 2700            | 0.225 / 1.95                        | 59                      | 38          |
| SMART ECG 1500 A | 4.2                     | 3600            | 0.300 / 2.60                        | 60                      | 55          |
| SMART ECG 2000 A | 4.2                     | 5400            | 0.450 / 3.90                        | 61                      | 72          |
| SMART ECG 2500 A | 4.2                     | 6300            | 0.525 / 4.55                        | 62                      | 76          |
| SMART ECG 3000 A | 4.2                     | 7200            | 0.600 / 5.20                        | 63                      | 86          |

\*Tested to Amca 220-05

## Electrically Heated

| Model            | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| SMART M 1000 E   | 3.5                     | 1800            | 9                                             | 0.212 / 0.94                        | 53                      | 41          |
| SMART M 1500 E   | 3.5                     | 2700            | 12                                            | 0.318 / 1.41                        | 54                      | 62          |
| SMART M 2000 E   | 3.5                     | 3600            | 18                                            | 0.424 / 1.88                        | 55                      | 80          |
| SMART M 2500 E   | 3.5                     | 4500            | 18                                            | 0.530 / 2.35                        | 56                      | 86          |
| SMART M 3000 E   | 3.5                     | 5400            | 24                                            | 0.636 / 2.82                        | 57                      | 99          |
| SMART ECM 1000 E | 3.5                     | 1840            | 9                                             | 0.132 / 1.14                        | 54                      | 41          |
| SMART ECM 1500 E | 3.5                     | 2760            | 12                                            | 0.198 / 1.71                        | 55                      | 62          |
| SMART ECM 2000 E | 3.5                     | 3680            | 18                                            | 0.264 / 2.28                        | 56                      | 80          |
| SMART ECM 2500 E | 3.5                     | 4600            | 18                                            | 0.330 / 2.85                        | 57                      | 86          |
| SMART ECM 3000 E | 3.5                     | 5520            | 24                                            | 0.396 / 3.42                        | 58                      | 99          |
| SMART G 1000 E   | 3.8                     | 2400            | 15                                            | 0.642 / 2.85                        | 55                      | 46          |
| SMART G 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856 / 3.80                        | 56                      | 68          |
| SMART G 2000 E   | 3.8                     | 4800            | 30                                            | 1.284 / 5.70                        | 57                      | 90          |
| SMART G 2500 E   | 3.8                     | 5600            | 30                                            | 1.498 / 6.65                        | 58                      | 96          |
| SMART G 3000 E   | 3.8                     | 6400            | 30                                            | 1.712 / 7.60                        | 59                      | 109         |
| SMART ECG 1000 E | 4.2                     | 2700            | 15                                            | 0.225 / 1.95                        | 59                      | 46          |
| SMART ECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300 / 2.60                        | 60                      | 68          |
| SMART ECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450 / 3.90                        | 61                      | 90          |
| SMART ECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525 / 4.55                        | 62                      | 96          |
| SMART ECG 3000 E | 4.2                     | 7200            | 30                                            | 0.600 / 5.20                        | 63                      | 109         |

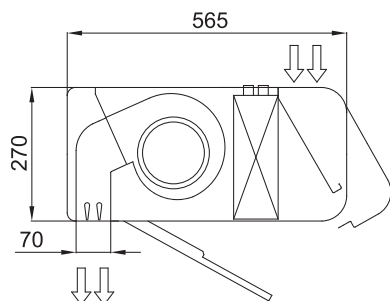
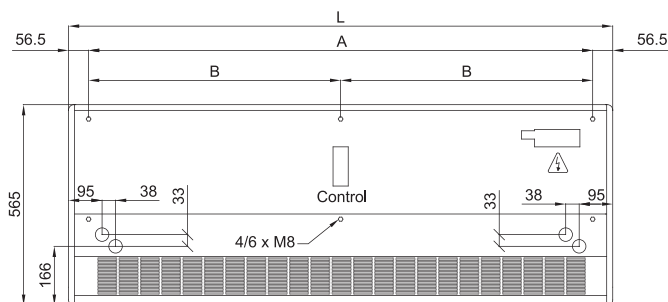


## Water Heated

| Model            | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|------------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| SMART M 1000 P   | 3.5                      | 1660           | 9.17                                  | 880                                | 8.56                                  | 4370                               | 8.52                                  | 1220                               | 0.428 / 1.90                          | 54                  | 39          |
| SMART M 1500 P   | 3.5                      | 2490           | 14.26                                 | 760                                | 13.69                                 | 6460                               | 14.34                                 | 4480                               | 0.642 / 2.85                          | 55                  | 58          |
| SMART M 2000 P   | 3.5                      | 3320           | 20.65                                 | 1930                               | 18.26                                 | 4790                               | 18.65                                 | 2060                               | 0.856 / 3.80                          | 56                  | 73          |
| SMART M 2500 P   | 3.5                      | 4150           | 26.92                                 | 3810                               | 22.12                                 | 3850                               | 24.32                                 | 4040                               | 1.070 / 4.75                          | 57                  | 79          |
| SMART M 3000 P   | 3.5                      | 4980           | 33.24                                 | 6590                               | 28.37                                 | 6760                               | 29.77                                 | 5660                               | 1.280 / 5.70                          | 58                  | 91          |
| SMART ECM 1000 P | 3.5                      | 1720           | 9.38                                  | 920                                | 8.77                                  | 4560                               | 8.74                                  | 1280                               | 0.132 / 1.14                          | 54                  | 39          |
| SMART ECM 1500 P | 3.5                      | 2580           | 14.58                                 | 790                                | 14.02                                 | 6730                               | 14.71                                 | 4690                               | 0.198 / 1.71                          | 55                  | 58          |
| SMART ECM 2000 P | 3.5                      | 3440           | 21.12                                 | 2010                               | 18.7                                  | 4990                               | 19.13                                 | 2150                               | 0.264 / 2.28                          | 56                  | 73          |
| SMART ECM 2500 P | 3.5                      | 4300           | 27.53                                 | 3960                               | 23.33                                 | 4010                               | 24.95                                 | 4230                               | 0.330 / 2.85                          | 57                  | 79          |
| SMART ECM 3000 P | 3.5                      | 5160           | 40                                    | 6860                               | 29.05                                 | 7050                               | 30.54                                 | 5920                               | 0.396 / 3.42                          | 58                  | 91          |
| SMART G 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642 / 2.85                          | 55                  | 44          |
| SMART G 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856 / 3.80                          | 56                  | 64          |
| SMART G 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284 / 5.70                          | 57                  | 83          |
| SMART G 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498 / 6.65                          | 58                  | 87          |
| SMART G 3000 P   | 3.8                      | 6000           | 37.35                                 | 8110                               | 32.1                                  | 8410                               | 34.03                                 | 7180                               | 1.712 / 7.60                          | 59                  | 99          |
| SMART ECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225 / 1.95                          | 59                  | 44          |
| SMART ECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300 / 2.60                          | 60                  | 64          |
| SMART ECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450 / 3.90                          | 61                  | 83          |
| SMART ECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525 / 4.55                          | 62                  | 87          |
| SMART ECG 3000 P | 4.2                      | 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 (male if lateral pipes), P54 2x1" male.  
P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

## Layouts and Dimensions



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

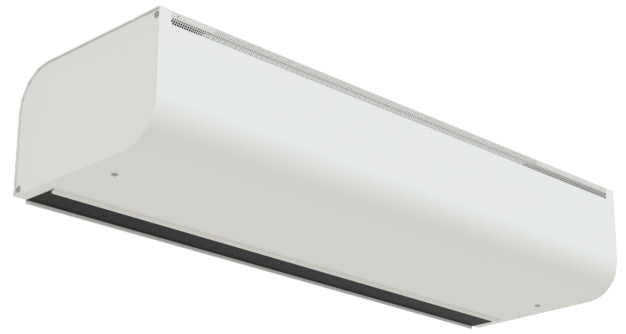
# Essensse Neo

A low profile air curtain designed for horizontal installation at the entry doorways of retail shops, restaurants, office buildings and banks.

This next generation Essensse Neo air curtain uses a cross-flow fan with 3-speed AC motor, or a new energy-efficient EC motor, controlled using PWM. Through its unique "straw system" outlet, air is released steadily at high pressure to provide the best possible seal across any doorway.

The inlet grille sits towards the top of the air curtain to provide a cleaner front face. It can be periodically wiped or vacuumed, ensuring easy maintenance.

The air curtain features our integrated AirGENIO PRIME control system. This allows for automatic control with manual override. This is a more sophisticated control system which maximises the air curtain's efficiency while reducing energy usage.



Option available



Colours Available

White RAL9016 (standard)  
Any RAL colour



Fan Options

AC fan  
EC fan



Mounting Options

Horizontal



Heating Options

Electric  
LPHW



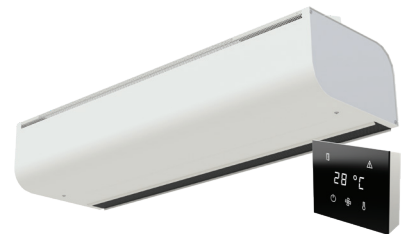
Max Door Height

2.8 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m



## Electrically Heated

| Model            | Max mounting height m | Airflow m <sup>3</sup> /h* | Electrical heating 400Vx3-50Hz kW | Power/current fans kW/A | Noise level (@3m) dB(A) | Weight kg |
|------------------|-----------------------|----------------------------|-----------------------------------|-------------------------|-------------------------|-----------|
| VCES4 B 100-E1AC | 2.8                   | 1350                       | 6.3                               | 0.14/0.6                | 47                      | 24.4      |
| VCES4 B 150-E1AC | 2.8                   | 2200                       | 10                                | 0.21/0.9                | 48                      | 30.4      |
| VCES4 B 200-E1AC | 2.8                   | 3000                       | 12.6                              | 0.32/1.4                | 50                      | 38.4      |
| VCES4 B 250-E1AC | 2.8                   | 3500                       | 16                                | 0.41/2.0                | 50                      | 45.4      |
| VCES4 B 100-E2AC | 2.8                   | 1350                       | 9.5                               | 0.14/0.6                | 47                      | 24.4      |
| VCES4 B 150-E2AC | 2.8                   | 2200                       | 15                                | 0.21/0.9                | 48                      | 30.4      |
| VCES4 B 200-E2AC | 2.8                   | 3000                       | 19                                | 0.32/1.4                | 50                      | 38.4      |
| VCES4 B 250-E2AC | 2.8                   | 3500                       | 24.5                              | 0.41/2.0                | 50                      | 45.4      |
| VCES4 B 100-E1EC | 2.8                   | 2000                       | 6.3                               | 0.3/2.4                 | 54                      | 23.2      |
| VCES4 B 150-E1EC | 2.8                   | 2700                       | 10                                | 0.4/3.0                 | 54                      | 29.6      |
| VCES4 B 200-E1EC | 2.8                   | 3900                       | 12.6                              | 0.44/3.4                | 55                      | 34.5      |
| VCES4 B 250-E1EC | 2.8                   | 4800                       | 16                                | 0.44/3.4                | 56                      | 41.5      |
| VCES4 B 100-E2EC | 2.8                   | 2000                       | 9.5                               | 0.3/2.4                 | 54                      | 23.2      |
| VCES4 B 150-E2EC | 2.8                   | 2700                       | 15                                | 0.4/3.0                 | 54                      | 29.6      |
| VCES4 B 200-E2EC | 2.8                   | 3900                       | 19                                | 0.44/3.4                | 55                      | 34.5      |
| VCES4 B 250-E2EC | 2.8                   | 4800                       | 24.5                              | 0.44/3.4                | 56                      | 41.5      |

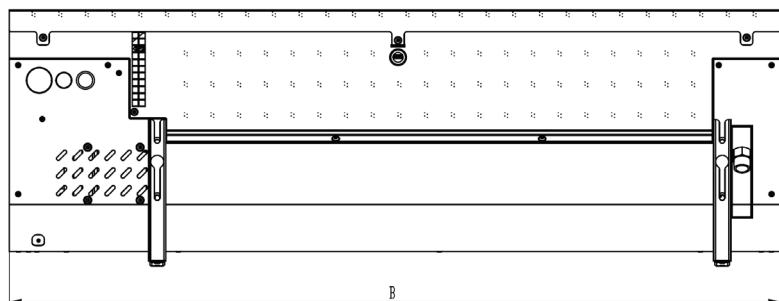
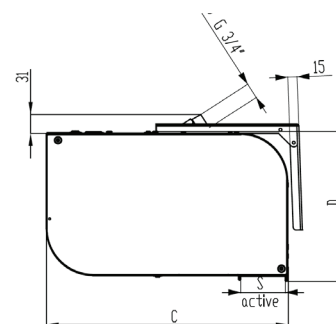
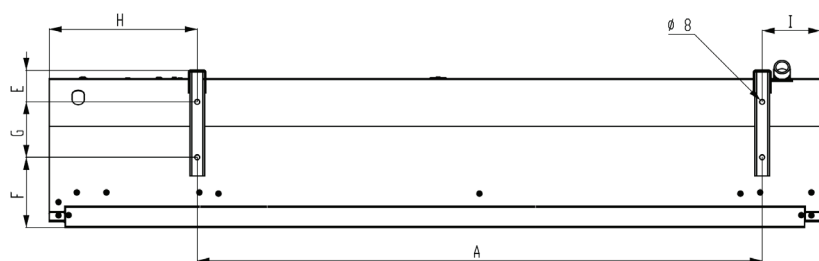
\* 1 Airflow volume according ISO27327-1

## Water Heated

| Model            | Max mounting height m | Airflow m <sup>3</sup> /h* | Water heating capacity 80/60°C kW | Water drop pressure 80/60°C Pa | Water heating capacity 60/40°C kW | Water drop pressure 60/40°C Pa | Power/current fans 230V-50Hz kW/A | Noise level (@3m)dB(A) | Weight kg |
|------------------|-----------------------|----------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|------------------------|-----------|
| VCES4 B 100-V2AC | 2.8                   | 1300                       | 13.2                              | 10500                          | 7.4                               | 3800                           | 0.14/0.6                          | 47                     | 25.6      |
| VCES4 B 150-V2AC | 2.8                   | 2000                       | 19.4                              | 7300                           | 10.8                              | 2500                           | 0.21/0.9                          | 48                     | 32.1      |
| VCES4 B 200-V2AC | 2.8                   | 2950                       | 27.9                              | 10200                          | 15.6                              | 3500                           | 0.32/1.4                          | 50                     | 41.6      |
| VCES4 B 250-V2AC | 2.8                   | 3700                       | 35.3                              | 17200                          | 20.1                              | 6200                           | 0.41/2.0                          | 51                     | 48.6      |
| VCES4 B 100-V2EC | 2.8                   | 1750                       | 15.4                              | 14000                          | 8.6                               | 5000                           | 0.3/2.4                           | 51                     | 24.4      |
| VCES4 B 150-V2EC | 2.8                   | 2450                       | 21.5                              | 8900                           | 11.9                              | 3000                           | 0.4/3.0                           | 51                     | 31.3      |
| VCES4 B 200-V2EC | 2.8                   | 3550                       | 30.7                              | 12200                          | 17.1                              | 4200                           | 0.44/3.4                          | 54                     | 37.7      |
| VCES4 B 250-V2EC | 2.8                   | 4200                       | 37.7                              | 19400                          | 21.3                              | 6900                           | 0.44/3.4                          | 55                     | 44.7      |

\* 1 Airflow volume according ISO27327-1

## Layouts and Dimensions



|             | A    | B    | C   | D   | E  | F   | G  | H   | I  |
|-------------|------|------|-----|-----|----|-----|----|-----|----|
| VCES4 B 100 | 916  | 1252 | 407 | 252 | 51 | 111 | 90 | 240 | 95 |
| VCES4 B 150 | 1325 | 1660 | 407 | 252 | 51 | 111 | 90 | 240 | 95 |
| VCES4 B 200 | 1825 | 2160 | 407 | 252 | 51 | 111 | 90 | 240 | 95 |
| VCES4 B 250 | 2235 | 2570 | 407 | 252 | 51 | 111 | 90 | 240 | 95 |



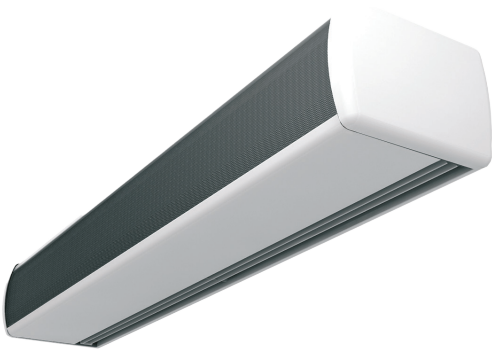
# Mini Optima

This compact elegant air curtain with its slim design and curved end panels, make it an unobtrusive addition to any doorway.

A micro-perforated inlet grille will filter the air entering the unit, avoiding the need to routinely replace or clean internal air filters. All the inlet grille requires for maintenance is a periodic wipe or vacuum.

The Mini Optima is ideal for small and mid-sized premises such as shops, offices, restaurants and other public buildings. Its external casing is customisable in any RAL colour to adapt to the internal aesthetics of any premises.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 2 fan speed selections and 3 heater stages for electrically heated units, or 2 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air Only



Max Door Height

2.8 m



Lengths Available

1.0m 1.5m  
2.0m



## Air Only

| Model      | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| OPT 1000 A | 2.8                     | 1500            | 0.080 / 0.41                        | 35/50                   | 17.5        |
| OPT 1500 A | 2.8                     | 2150            | 0.117 / 0.53                        | 36/51                   | 25.5        |
| OPT 2000 A | 2.8                     | 2900            | 0.160 / 0.82                        | 38/53                   | 33          |

\*Tested to Amca 220-05

## Water Heated

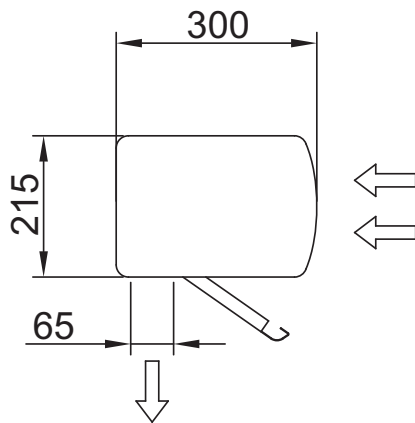
| Model      | Max mounting height (m) | *Airflow (m³/h) | Heating capacity 80/60°C (kW) | Water Drop Pressure (Pa) | Power/ current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------|-------------------------|-----------------|-------------------------------|--------------------------|--------------------------------------|-------------------------|-------------|
| OPT 1000 P | 2.8                     | 1400            | 8.2                           | 7090                     | 0.080 / 0.41                         | 37/51                   | 20.5        |
| OPT 1500 P | 2.8                     | 2100            | 12.7                          | 7200                     | 0.117 / 0.53                         | 38/52                   | 27.5        |
| OPT 2000 P | 2.8                     | 2750            | 16.7                          | 6550                     | 0.160 / 0.82                         | 40/54                   | 37.5        |

Water heated: connection pipes 1/2" female. 2 rows coil. \*Tested to Amca 220-05

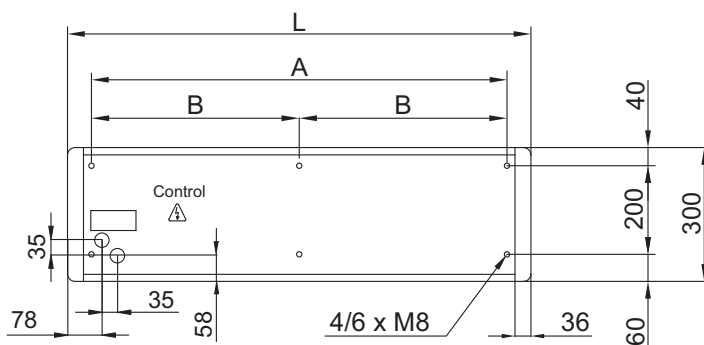
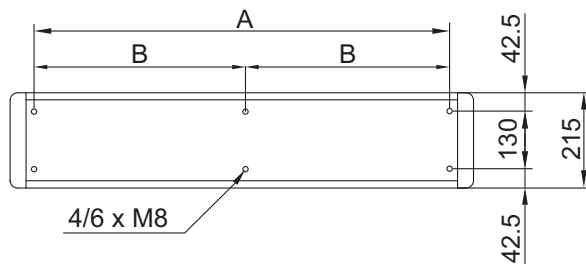
| Model           | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Electrical heating capacity (kW) | Electrical heating voltage (V) | Electrical heating current (A) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------------|-------------------------|-----------------------------|----------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------|-------------|
| OPT 1000 E400   | 2.8                     | 1500                        | 5.6                              | 400Vx3                         | 5.8/8.7                        | 0.080 / 0.41                        | 35/50                   | 20.5        |
| OPT 1000 E9     | 2.8                     | 1500                        | 9                                | 400Vx3                         | 8.7/13                         | 0.080 / 0.41                        | 35/50                   | 21.5        |
| OPT 1000 E230   | 2.8                     | 1500                        | 5.6                              | 230Vx1                         | 16.5/24.5                      | 0.080 / 0.41                        | 35/50                   | 20.5        |
| OPT 1500 E400   | 2.8                     | 2150                        | 9                                | 400Vx3                         | 8.7/13                         | 0.117 / 0.53                        | 36/51                   | 27.5        |
| OPT 1500 E230-6 | 2.8                     | 2150                        | 5.6                              | 230Vx1                         | 16.5/24.5                      | 0.117 / 0.53                        | 36/51                   | 27.5        |
| OPT 1500 E230-9 | 2.8                     | 2150                        | 9                                | 230Vx1*                        | 26/39.1                        | 0.117 / 0.53                        | 36/51                   | 27.5        |
| OPT 2000 E400   | 2.8                     | 2900                        | 11.3                             | 400Vx3                         | 8.1/16.3                       | 0.160 / 0.82                        | 38/53                   | 42          |
| OPT 2000 E230   | 2.8                     | 2900                        | 11.3                             | 230Vx1*                        | 24.5/49.1                      | 0.160 / 0.82                        | 38/53                   | 42          |

\*2 separate 230V power supplies are required.

## Layouts and Dimensions



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



# Aris

The Aris is a stylish, contemporary air curtain designed to easily adapt to any interior. Its smooth front panel can be customised with logos, lighting, or safety information, blending aesthetics with functionality. The inlet grille is hidden in the upper part, thus avoiding the internal vision of the air curtain and the filter, making it a top air curtain for commercial entrances up to 3.5 meters high, without clashing with the interior architecture and design of the premises.

The self-supporting steel casing has rounded edges with plastic side covers, finished in white RAL9016 as standard, with other colours available upon request. A hidden top air entrance keeps the inlet grille out of sight, while anodized aluminum airfoil-shaped outlet vanes ensure optimal airflow.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 2 fan speed selections and 3 heater stages for electrically heated units, or 2 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air Only



Max Door Height

3.5 m



Lengths Available

1.0m 1.5m  
2.0m



## Air Only

| Model       | Max mounting height m | Airflow m <sup>3</sup> /h* | Power/current fans kW/A | Noise level (@3m) dB(A) | Weight kg |
|-------------|-----------------------|----------------------------|-------------------------|-------------------------|-----------|
| ARIS 1000 A | 3.5                   | 1900                       | 0.123/0.59              | 37/52                   | 20.5      |
| ARIS 1500 A | 3.5                   | 2800                       | 0.207/0.96              | 38/53                   | 32        |
| ARIS 2000 A | 3.5                   | 3800                       | 0.253/1.18              | 39/54                   | 39        |

## Electrically Heated

| Model       | Max mounting height m | Airflow m <sup>3</sup> /h* | Electrical heating 400Vx3-50Hz kW | Power/current fans kW/A | Noise level (@3m) dB(A) | Weight kg |
|-------------|-----------------------|----------------------------|-----------------------------------|-------------------------|-------------------------|-----------|
| ARIS 1000 E | 3.5                   | 1800                       | 9                                 | 0.131/0.59              | 37/52                   | 24.5      |
| ARIS 1500 E | 3.5                   | 2800                       | 12                                | 0.207/0.96              | 38/53                   | 35        |
| ARIS 2000 E | 3.5                   | 3600                       | 18                                | 0.253/1.18              | 39/54                   | 50        |

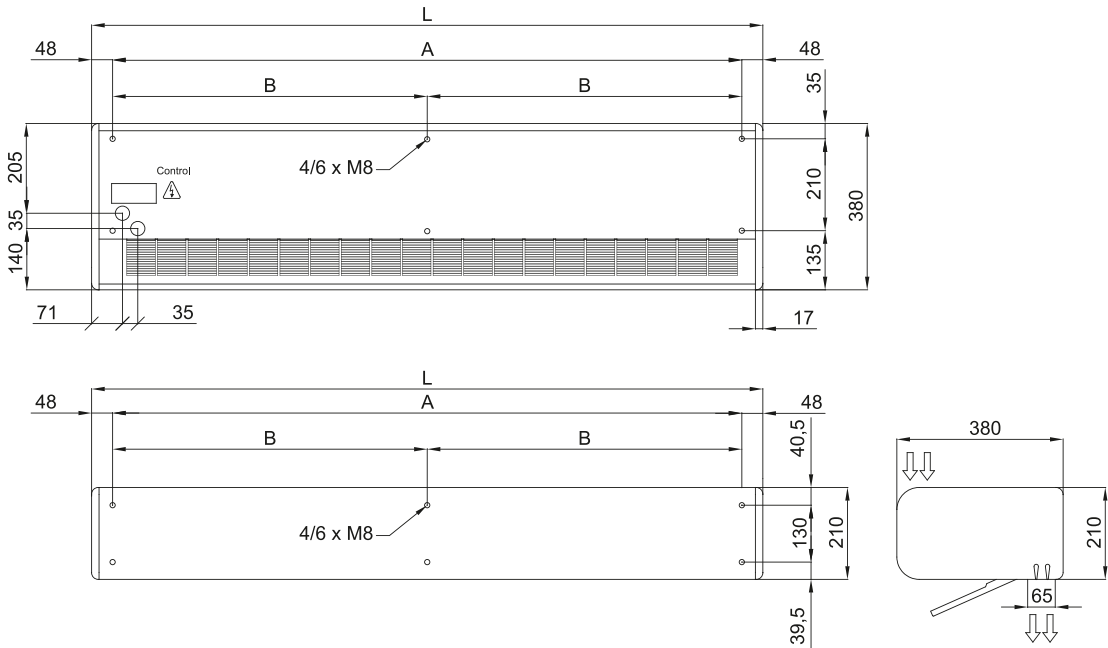


Water Heated

| Model         | Max mounting height m | Airflow m3/h* | Water heating capacity 80/60°C kW | Water drop pressure 80/60°C Pa | Water heating capacity 60/40°C kW | Water drop pressure 60/40°C Pa | Power/current fans 230V-50Hz kW/A | Noise level (@3m)dB(A) | Weight kg |
|---------------|-----------------------|---------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|------------------------|-----------|
| ARIS 1000 P86 | 3.5                   | 1750          | 9.3                               | 7630                           |                                   |                                | 0.116/0.53                        | 39/53                  | 23.5      |
| ARIS 1000 P64 | 3.5                   | 1600          |                                   |                                | 7.0                               | 7630                           | 0.107/0.48                        | 39/53                  | 23.5      |
| ARIS 1500 P86 | 3.5                   | 2625          | 14.5                              | 7750                           |                                   |                                | 0.187/0.86                        | 40/54                  | 34        |
| ARIS 1500 P64 | 3.5                   | 2350          |                                   |                                | 10.6                              | 7050                           | 0.172/0.83                        | 40/54                  | 35        |
| ARIS 2000 P86 | 3.5                   | 3500          | 19.3                              | 7140                           |                                   |                                | 0.222/1.03                        | 41/55                  | 43.5      |
| ARIS 2000 P64 | 3.5                   | 3200          |                                   |                                | 14.3                              | 6740                           | 0.206/0.98                        | 41/55                  | 43.5      |

Water heated: connection pipes 1/2" female. P86 of 2 rows coil. P64 of 3 rows coil. \*Tested to Amca 220-05

Layouts and Dimensions



|           | L    | A    | B   |
|-----------|------|------|-----|
| ARIS 1000 | 1034 | 940  | -   |
| ARIS 1500 | 1534 | 1440 | -   |
| ARIS 2000 | 2034 | 1940 | 970 |

# Standesse

A smart looking air curtain with fast-heat wire elements that provide increased performance and energy savings.

The FACE 2 in 1 suction grille and filter technology prevents particles from entering the air curtain, removing the need for a separate internal filter, facilitating easy maintenance and cleaning. The grille can be easily brushed or vacuumed.

The Standesse is ideal for use in premises, such as banks, luxury shops, shopping centres, airports and office buildings.

The AirGENIO comfort controller is supplied as standard, which offers automatic control with manual override to adjust the air curtain's performance efficiently to any application. Option to upgrade to the advanced AirGENIO superior controller, which offers modulating heat output for both electric and water heaters using a suitable valve.



Colours Available

White RAL9016 (standard)  
Any RAL colour



Fan Options

AC fan  
EC fan



Mounting Options

Horizontal



Heating Options

Electric  
LPHW



Max Door Height

4.2m



Lengths Available

1.0m 1.5m  
2.0m 2.5m



## Electrically Heated

| Model          | Max mounting height m | Airflow m <sup>3</sup> /h* | Electrical heating 400Vx3-50Hz kW | Power/current fans kW/A | Noise level (@3m) dB(A) | Weight kg |
|----------------|-----------------------|----------------------------|-----------------------------------|-------------------------|-------------------------|-----------|
| VCS4B-10E      | 3.5                   | 1589                       | 9.5                               | 0.63 / 2.85             | 56                      | 46        |
| VCS4B-15E      | 3.5                   | 2476                       | 15                                | 1 / 4.4                 | 59                      | 63        |
| VCS4B-20E      | 3.5                   | 3362                       | 19                                | 1.3 / 5.7               | 60                      | 81        |
| VCS4B-25E      | 3.5                   | 3991                       | 24.5                              | 1.6 / 7                 | 61                      | 99        |
| VCST4B100-E1EC | 3.5                   | 1900                       | 9.5                               | 0.34 / 2.4              | 53                      | 42        |
| VCST4B150-E1EC | 3.5                   | 2800                       | 15                                | 0.5 / 3.4               | 54                      | 57        |
| VCST4B200-E1EC | 3.5                   | 3800                       | 19                                | 0.68 / 4.4              | 56                      | 73        |
| VCST4B250-E1EC | 3.5                   | 4700                       | 24.5                              | 0.85 / 5.4              | 58                      | 89        |
| VCS4C-10E      | 4.2                   | 2262                       | 9.5                               | 0.95 / 4                | 60                      | 53        |
| VCS4C-15E      | 4.2                   | 3272                       | 15                                | 1.35 / 5.60             | 60                      | 68        |
| VCS4C-20E      | 4.2                   | 4080                       | 19                                | 1.7 / 7                 | 60                      | 86        |
| VCS4C-25E      | 4.2                   | 4888                       | 24.5                              | 2 / 8.7                 | 61                      | 110       |
| VCST4C100-E1EC | 4.2                   | 2550                       | 9.5                               | 0.5 / 3.3               | 56                      | 47        |
| VCST4C150-E1EC | 4.2                   | 3650                       | 15                                | 0.68 / 4.5              | 57                      | 61        |
| VCST4C200-E1EC | 4.2                   | 4650                       | 19                                | 0.84 / 5.3              | 58                      | 77        |
| VCST4C250-E1EC | 4.2                   | 6400                       | 24.5                              | 1.2 / 7.2               | 59                      | 101       |

\*Tested to ISO 27327-1

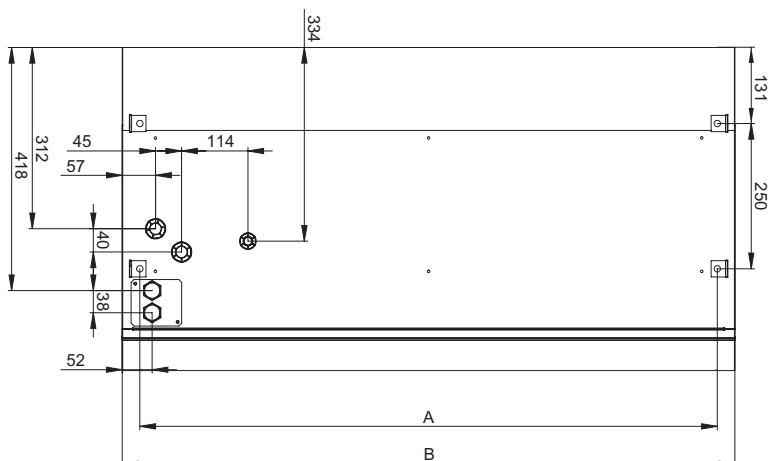
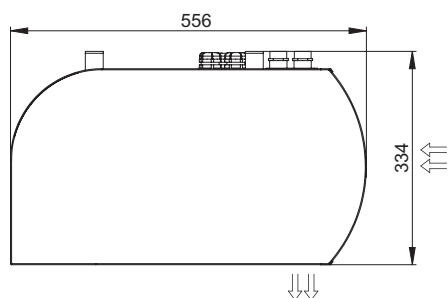
## Water Heated

| Model          | Max mounting height m | Airflow m <sup>3</sup> /h* | Water heating capacity 80/60°C kW | Water drop pressure 80/60°C Pa | Water heating capacity 60/40°C kW | Water drop pressure 60/40°C Pa | Power/current fans 230V-50Hz kW/A | Noise level (@3m)dB(A) | Weight kg |
|----------------|-----------------------|----------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|------------------------|-----------|
| VCS4B-10V      | 3.5                   | 1552                       | 17.7                              | 4700                           | 9.7                               | 1600                           | 0.65 / 2.85                       | 56                     | 48        |
| VCS4B-15V      | 3.5                   | 2439                       | 26.7                              | 3300                           | 14.1                              | 1000                           | 1 / 4.4                           | 58                     | 65        |
| VCS4B-20V      | 3.5                   | 3257                       | 37.4                              | 6900                           | 20.7                              | 2300                           | 1.3 / 5.7                         | 59                     | 83        |
| VCS4B-25V      | 3.5                   | 3880                       | 45.7                              | 10800                          | 25.9                              | 3800                           | 1.6 / 7                           | 61                     | 97        |
| VCST4B100-V2EC | 3.5                   | 1850                       | 19.7                              | 5700                           | 10.8                              | 1900                           | 0.34 / 2.4                        | 53                     | 44        |
| VCST4B150-V2EC | 3.5                   | 2700                       | 28.5                              | 3800                           | 15.1                              | 1200                           | 0.5 / 3.4                         | 55                     | 59        |
| VCST4B200-V2EC | 3.5                   | 3700                       | 40.5                              | 8100                           | 22.3                              | 2700                           | 0.68 / 4.4                        | 56                     | 75        |
| VCST4B250-V2EC | 3.5                   | 4500                       | 50.2                              | 12900                          | 28.2                              | 4500                           | 0.85 / 5.4                        | 57                     | 87        |
| VCS4C-10V      | 4.2                   | 2222                       | 22.0                              | 7000                           | 12.0                              | 2300                           | 0.95 / 4                          | 59                     | 55        |
| VCS4C-15V      | 4.2                   | 3151                       | 31.2                              | 4500                           | 16.4                              | 1400                           | 1.35 / 5.60                       | 60                     | 70        |
| VCS4C-20V      | 4.2                   | 3878                       | 41.7                              | 8500                           | 23.0                              | 2800                           | 1.7 / 7                           | 60                     | 88        |
| VCS4C-25V      | 4.2                   | 4808                       | 52.3                              | 13900                          | 29.3                              | 4800                           | 2 / 8.7                           | 61                     | 108       |
| VCST4C100-V2EC | 4.2                   | 2400                       | 23.3                              | 7800                           | 12.6                              | 2600                           | 0.5 / 3.3                         | 57                     | 49        |
| VCST4C150-V2EC | 4.2                   | 3500                       | 33.2                              | 5000                           | 17.4                              | 1500                           | 0.68 / 4.5                        | 57                     | 63        |
| VCST4C200-V2EC | 4.2                   | 4550                       | 45.6                              | 10100                          | 25.0                              | 3300                           | 0.84 / 5.3                        | 58                     | 79        |
| VCST4C250-V2EC | 4.2                   | 5900                       | 59.1                              | 17600                          | 32.9                              | 6000                           | 1.2 / 7.2                         | 58                     | 99        |

2 x ¾" connections.

Sound pressure measured 3m from the air curtain intake. Air intake air temperature 18°C.

## Layouts and Dimensions



|           | A    | B    |
|-----------|------|------|
| VCS4-10X- | 994  | 1054 |
| VCS4-15X- | 1494 | 1554 |
| VCS4-20X- | 1994 | 2054 |
| VCS4-25X- | 2394 | 2454 |



# DAM

The DAM is a versatile air curtain designed for performance and modern aesthetics. Its clean front panel replaces the traditional grille and can be customised with logos, signage, or graphics, making it ideal for visible installations. The double air inlet areas are located behind the front panel avoiding intensive maintenance.

Equipped with low-noise, double-inlet centrifugal fans and external rotor motors, DAM is also available in EC versions with ultra-efficient fans. It offers multiple heating options - water, electric, or air-only.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Stainless Steel  
Any classic RAL colour



Fan Options

AC fan  
EC fan



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air Only



Max Door Height

4.2m



Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



## Air Only

| Model          | Max mounting height (m) | Airflow (m³/h) | Ventilation power (kW) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|----------------|-------------------------|----------------|------------------------|-------------------------|---------------------|-------------|
| DAM M 1000 A   | 3.5                     | 1800           | 0.212                  | 0.94                    | 55                  | 38          |
| DAM M 1500 A   | 3.5                     | 2700           | 0.318                  | 1.41                    | 56                  | 56          |
| DAM M 2000 A   | 3.5                     | 3600           | 0.424                  | 1.88                    | 57                  | 70          |
| DAM M 2500 A   | 3.5                     | 4500           | 0.53                   | 2.35                    | 58                  | 76          |
| DAM M 3000 A   | 3.5                     | 5400           | 0.636                  | 2.82                    | 59                  | 88          |
| DAM ECM 1000 A | 3.5                     | 1840           | 0.142                  | 1.24                    | 56                  | 38          |
| DAM ECM 1500 A | 3.5                     | 2760           | 0.213                  | 1.86                    | 57                  | 56          |
| DAM ECM 2000 A | 3.5                     | 3680           | 0.284                  | 2.48                    | 58                  | 70          |
| DAM ECM 2500 A | 3.5                     | 4600           | 0.355                  | 3.1                     | 59                  | 76          |
| DAM ECM 3000 A | 3.5                     | 5520           | 0.426                  | 3.72                    | 60                  | 88          |
| DAM G 1000 A   | 3.8                     | 2400           | 0.642                  | 2.85                    | 57                  | 42          |
| DAM G 1500 A   | 3.8                     | 3200           | 0.856                  | 3.8                     | 58                  | 61          |
| DAM G 2000 A   | 3.8                     | 4800           | 1.284                  | 5.7                     | 59                  | 80          |
| DAM G 2500 A   | 3.8                     | 5600           | 1.498                  | 6.65                    | 60                  | 86          |
| DAM G 3000 A   | 3.8                     | 6400           | 1.712                  | 7.6                     | 61                  | 98          |
| DAM ECG 1000 A | 4.2                     | 2700           | 0.213                  | 1.86                    | 61                  | 42          |
| DAM ECG 1500 A | 4.2                     | 3600           | 0.284                  | 2.48                    | 62                  | 61          |
| DAM ECG 2000 A | 4.2                     | 5400           | 0.426                  | 3.72                    | 63                  | 80          |
| DAM ECG 2500 A | 4.2                     | 6300           | 0.497                  | 4.34                    | 64                  | 86          |
| DAM ECG 3000 A | 4.2                     | 7200           | 0.568                  | 5.96                    | 65                  | 98          |

## Electrically Heated

| Model          | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Electrical heating capacity (kW) | Electrical heating voltage (V) | Ventilation power (W) | Ventilation current (A) | Noise level (dB(A)) |
|----------------|-------------------------|-----------------------------|----------------------------------|--------------------------------|-----------------------|-------------------------|---------------------|
| DAM M 1000 E   | 3.5                     | 1800                        | 9                                | 0.212                          | 0.94                  | 55                      | 45                  |
| DAM M 1500 E   | 3.5                     | 2700                        | 12                               | 0.318                          | 1.41                  | 56                      | 68                  |
| DAM M 2000 E   | 3.5                     | 3600                        | 18                               | 0.424                          | 1.88                  | 57                      | 88                  |
| DAM M 2500 E   | 3.5                     | 4500                        | 18                               | 0.53                           | 2.35                  | 58                      | 96                  |
| DAM M 3000 E   | 3.5                     | 5400                        | 24                               | 0.636                          | 2.82                  | 59                      | 111                 |
| DAM ECM 1000 E | 3.5                     | 1840                        | 9                                | 0.142                          | 1.24                  | 56                      | 45                  |
| DAM ECM 1500 E | 3.5                     | 2760                        | 12                               | 0.213                          | 1.86                  | 57                      | 68                  |
| DAM ECM 2000 E | 3.5                     | 3680                        | 18                               | 0.284                          | 2.48                  | 58                      | 88                  |
| DAM ECM 2500 E | 3.5                     | 4600                        | 18                               | 0.355                          | 3.1                   | 59                      | 96                  |
| DAM ECM 3000 E | 3.5                     | 5520                        | 24                               | 0.426                          | 3.72                  | 60                      | 111                 |
| DAM G 1000 E   | 3.8                     | 2400                        | 15                               | 0.642                          | 2.85                  | 57                      | 50                  |
| DAM G 1500 E   | 3.8                     | 3200                        | 22.5                             | 0.856                          | 3.8                   | 58                      | 74                  |
| DAM G 2000 E   | 3.8                     | 4800                        | 30                               | 1.284                          | 5.7                   | 59                      | 98                  |
| DAM G 2500 E   | 3.8                     | 5600                        | 30                               | 1.498                          | 6.65                  | 60                      | 106                 |
| DAM G 3000 E   | 3.8                     | 6400                        | 30                               | 1.712                          | 7.6                   | 61                      | 121                 |
| DAM ECG 1000 E | 4.2                     | 2700                        | 15                               | 0.213                          | 1.86                  | 61                      | 50                  |
| DAM ECG 1500 E | 4.2                     | 3600                        | 22.5                             | 0.284                          | 2.48                  | 62                      | 74                  |
| DAM ECG 2000 E | 4.2                     | 5400                        | 30                               | 0.426                          | 3.72                  | 63                      | 98                  |
| DAM ECG 2500 E | 4.2                     | 6300                        | 30                               | 0.497                          | 4.34                  | 64                      | 106                 |
| DAM ECG 3000 E | 4.2                     | 7200                        | 30                               | 0.568                          | 5.96                  | 65                      | 121                 |

## Water Heated

| Model          | Max mounting height(m) | Airflow (m <sup>3</sup> /h) | Water heating capacity (kW) | Water pressure drop (Pa) | Water heating capacity (kW) | Water pressure drop (Pa) | Water heating capacity (kW) | Water pressure drop (Pa) | Ventilation power (kW) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|----------------|------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|------------------------|-------------------------|---------------------|-------------|
| DAM M 1000 P   | 3.5                    | 1660                        | 9.17                        | 880                      | 8.56                        | 4370                     | 8.52                        | 1220                     | 0.428                  | 1.9                     | 56                  | 43          |
| DAM M 1500 P   | 3.5                    | 2490                        | 14.26                       | 760                      | 13.69                       | 6460                     | 14.34                       | 4480                     | 0.642                  | 2.85                    | 57                  | 64          |
| DAM M 2000 P   | 3.5                    | 3320                        | 20.65                       | 1930                     | 18.26                       | 4790                     | 18.65                       | 2060                     | 0.856                  | 3.8                     | 58                  | 81          |
| DAM M 2500 P   | 3.5                    | 4150                        | 26.92                       | 3810                     | 22.12                       | 3850                     | 24.32                       | 4040                     | 1.07                   | 4.75                    | 59                  | 89          |
| DAM M 3000 P   | 3.5                    | 4980                        | 33.24                       | 6590                     | 28.37                       | 6760                     | 29.77                       | 5660                     | 1.28                   | 5.7                     | 60                  | 103         |
| DAM ECM 1000 P | 3.5                    | 1720                        | 9.38                        | 920                      | 8.77                        | 4560                     | 8.74                        | 1280                     | 0.142                  | 1.24                    | 56                  | 43          |
| DAM ECM 1500 P | 3.5                    | 2580                        | 14.58                       | 790                      | 14.02                       | 6730                     | 14.71                       | 4690                     | 0.213                  | 1.86                    | 57                  | 64          |
| DAM ECM 2000 P | 3.5                    | 3440                        | 21.12                       | 2010                     | 18.7                        | 4990                     | 19.13                       | 2150                     | 0.284                  | 2.48                    | 58                  | 81          |
| DAM ECM 2500 P | 3.5                    | 4300                        | 27.53                       | 3960                     | 23.33                       | 4010                     | 24.95                       | 4230                     | 0.355                  | 3.1                     | 59                  | 89          |
| DAM ECM 3000 P | 3.5                    | 5160                        | 33.99                       | 6860                     | 29.05                       | 7050                     | 30.54                       | 5920                     | 0.426                  | 3.72                    | 60                  | 103         |
| DAM G 1000 P   | 3.8                    | 2250                        | 11.04                       | 1230                     | 10.42                       | 6190                     | 10.56                       | 1790                     | 0.642                  | 2.85                    | 57                  | 48          |
| DAM G 1500 P   | 3.8                    | 3000                        | 16.02                       | 940                      | 15.47                       | 8020                     | 16.37                       | 5670                     | 0.856                  | 3.8                     | 58                  | 70          |
| DAM G 2000 P   | 3.8                    | 4500                        | 24.92                       | 2700                     | 22.29                       | 6810                     | 23.15                       | 3030                     | 1.284                  | 5.7                     | 59                  | 91          |
| DAM G 2500 P   | 3.8                    | 5250                        | 31.16                       | 4930                     | 26.61                       | 5060                     | 28.76                       | 5450                     | 1.498                  | 6.65                    | 60                  | 97          |
| DAM G 3000 P   | 3.8                    | 6000                        | 37.35                       | 8110                     | 32.1                        | 8410                     | 34.03                       | 7180                     | 1.712                  | 7.6                     | 61                  | 111         |
| DAM ECG 1000 P | 4.2                    | 2550                        | 11.89                       | 1400                     | 11.27                       | 7110                     | 11.5                        | 2090                     | 0.213                  | 1.86                    | 61                  | 48          |
| DAM ECG 1500 P | 4.2                    | 3400                        | 17.29                       | 1070                     | 16.77                       | 9240                     | 17.86                       | 6620                     | 0.284                  | 2.48                    | 62                  | 70          |
| DAM ECG 2000 P | 4.2                    | 5100                        | 26.86                       | 3080                     | 24.14                       | 7850                     | 25.24                       | 3530                     | 0.426                  | 3.72                    | 63                  | 91          |
| DAM ECG 2500 P | 4.2                    | 5950                        | 33.63                       | 5650                     | 28.84                       | 5840                     | 31.38                       | 6360                     | 0.497                  | 4.34                    | 64                  | 97          |
| DAM ECG 3000 P | 4.2                    | 6800                        | 40.34                       | 9290                     | 34.81                       | 9710                     | 37.16                       | 8400                     | 0.568                  | 5.96                    | 65                  | 111         |

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

## Layouts and Dimensions

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

CAD drawings, BIM files,  
installation manuals and  
other documentation  
available on request



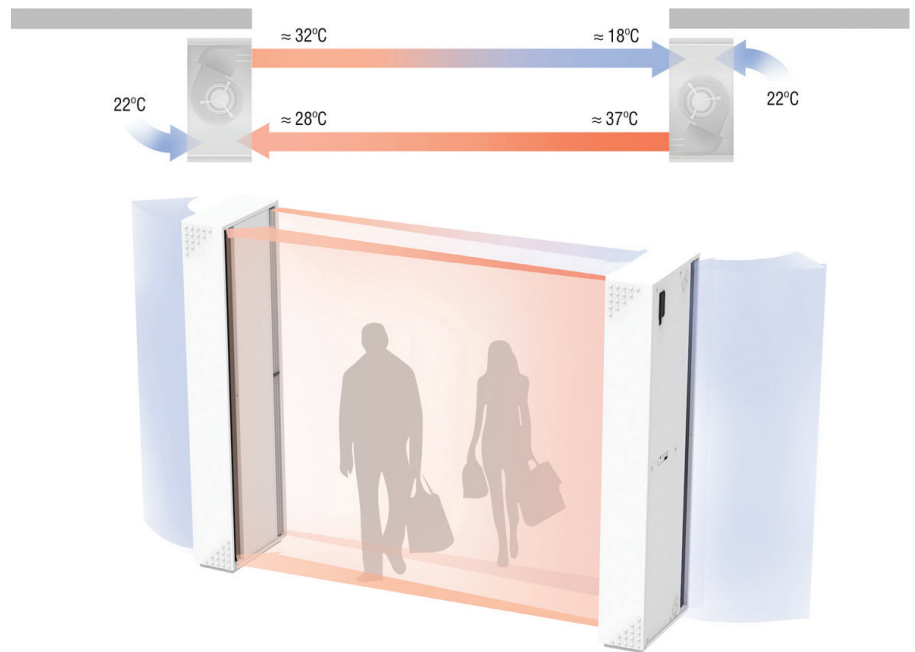


## Dam Twin application

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

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

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



## Finishes and details



Customised finishes on request.



Roca Art Gallery  
ME Hotel London  
Stansted International Station













Associated Press  
Novotel Hotel  
110 Canon Street

# TOP

The TOP is a decorative air curtain that blends cutting-edge functionality with sleek design. Perfect for modern spaces with contemporary or industrial aesthetics, its smooth front panel and decorative cover makes it a seamless addition to any interior. The front can be customised with logos, lighting, signage, or lettering to suit branding or design needs.

Behind its elegant appearance, the TOP features high-performance tangential fans with low-noise, twisted-profile turbines powered by a 2-speed external rotor motor. It delivers efficient air management while maintaining quiet operation.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 2 fan speed selections and 3 heater stages for electrically heated units, or 2 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

Standard: Bottom Cover White (RAL 9016) | Front Face Grey (RAL 9006)  
Options: Stainless Steel or any classic RAL colour



Fan Options

AC fan



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air Only



Max Door Height

2.8 m



Lengths Available

1.0m 1.5m 2.0m



## Air Only

| Model      | Max mounting height(m) | Airflow (m³/h) | Ventilation power (W) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|------------|------------------------|----------------|-----------------------|-------------------------|---------------------|-------------|
| TOP 1000 A | 2.8                    | 1700           | 80                    | 0.41                    | 35/50               | 23          |
| TOP 1500 A | 2.8                    | 2200           | 117                   | 0.53                    | 36/51               | 33          |
| TOP 2000 A | 2.8                    | 3200           | 160                   | 0.82                    | 38/53               | 43.5        |

## Electrically Heated

| Model           | Max mounting height (m) | Airflow (m³/h) | Electrical heating capacity (kW) | Electrical heating voltage (V) | Ventilation power (W) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|-----------------|-------------------------|----------------|----------------------------------|--------------------------------|-----------------------|-------------------------|---------------------|-------------|
| TOP 1000 E      | 2.8                     | 1700           | 5.6                              | 400Vx3                         | 80                    | 0.41                    | 35/50               | 25          |
| TOP 1000 E-9    | 2.8                     | 1700           | 9                                | 400Vx3                         | 80                    | 0.41                    | 35/50               | 26          |
| TOP 1000 E230   | 2.8                     | 1700           | 5.6                              | 230Vx1                         | 80                    | 0.41                    | 35/50               | 25          |
| TOP 1500 E      | 2.8                     | 2200           | 9                                | 400Vx3                         | 117                   | 0.53                    | 36/51               | 36.5        |
| TOP 1500 E230-6 | 2.8                     | 2200           | 5.6                              | 230Vx1                         | 117                   | 0.53                    | 36/51               | 36.5        |
| TOP 1500 E230-9 | 2.8                     | 2200           | 9                                | 230Vx1 (*)                     | 117                   | 0.53                    | 36/51               | 36.5        |
| TOP 2000 E      | 2.8                     | 3200           | 11.3                             | 400Vx3                         | 160                   | 0.82                    | 38/53               | 52.5        |
| TOP 2000 E230   | 2.8                     | 3200           | 11.3                             | 230Vx1 (*)                     | 160                   | 0.82                    | 38/53               | 52.5        |

(\*) 2 separate power supplies.

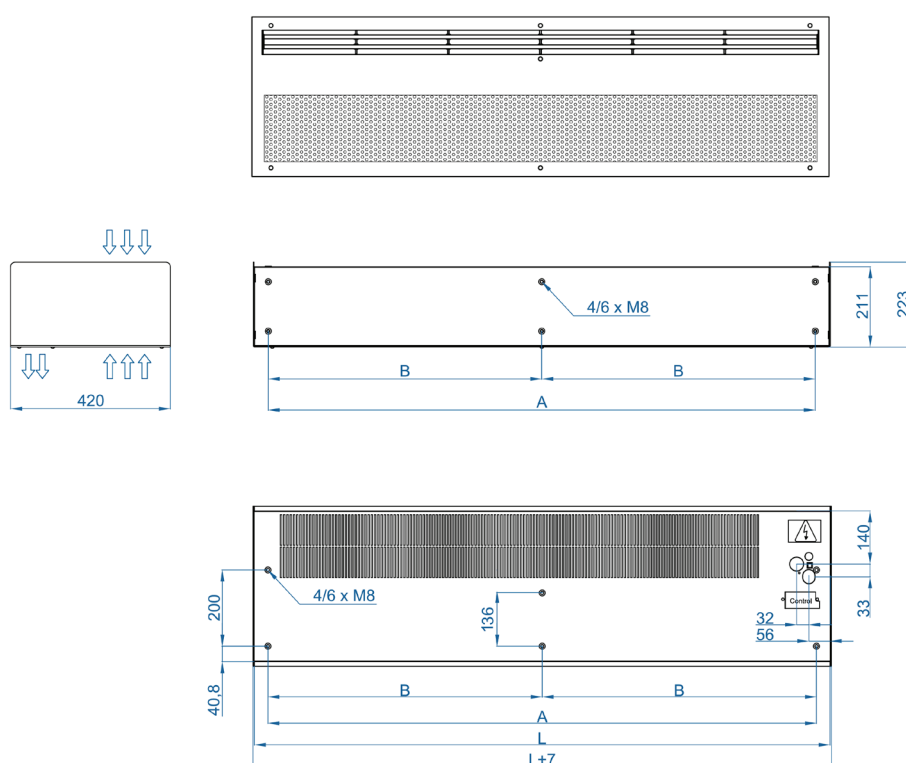


## Water Heated

| Model      | Max mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) | Water pressure drop (Pa) | Water heating capacity (kW) | Water pressure drop (Pa) | Ventilation power (W) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|------------|-------------------------|----------------|-----------------------------|--------------------------|-----------------------------|--------------------------|-----------------------|-------------------------|---------------------|-------------|
| TOP1000P86 | 2.8                     | 1450           | 8.3                         | 7360                     | -                           | -                        | 80                    | 0.41                    | 37/51               | 25.5        |
| TOP1000P64 | 2.8                     | 1400           | -                           | -                        | 6.42                        | 6570                     | 80                    | 0.41                    | 37/51               | 25.5        |
| TOP1500P86 | 2.8                     | 2175           | 13.0                        | 7480                     | -                           | -                        | 117                   | 0.53                    | 38/52               | 36.5        |
| TOP1500P64 | 2.8                     | 2100           | -                           | -                        | 9.85                        | 6210                     | 117                   | 0.53                    | 38/52               | 36.5        |
| TOP2000P86 | 2.8                     | 2850           | 17.1                        | 6810                     | -                           | -                        | 160                   | 0.82                    | 40/54               | 48          |
| TOP2000P64 | 2.8                     | 2700           | -                           | -                        | 12.83                       | 5560                     | 160                   | 0.82                    | 40/54               | 48          |

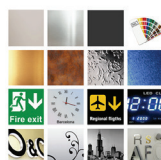
Water heated: connection pipes 1/2" female. P86 of 2 row coil. P64 of 3 row coil. No model exceeds the 70dB of noise level.

## Layouts and Dimensions



|          | L    | A    | B   |
|----------|------|------|-----|
| TOP 1000 | 1010 | 938  | -   |
| TOP 1500 | 1510 | 1438 | -   |
| TOP 2000 | 2010 | 1938 | 969 |

## Finishes and details



The front panel is designed to include graphics, logos, illuminated signs, signage, clocks or any other decorative element desired by the customer.

The decorative integral cover is available in any colour from the RAL chart or with stainless steel finish, to blend in with the surrounding decoration.



# Recessed Optima

The Recessed Optima air curtain is an economic solution for commercial building entrances with suspended ceiling systems.

The casing construction is made from galvanised plated steel and is ready to be recessed in a false ceiling, for easy installation. The inlet grille and outlet lamellas are integrated into a single frame. The low noise twisted cross-flow fans are driven with a two-speed external rotor motor.

This air curtain is suitable for small to mid-sized commercial sites, where heat loss through often wide doors can be significant. The Recessed Optima makes internal temperature control in these types of buildings more practical, with recommended installation height of up to 2.8m.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 2 fan speed selections and 3 heater stages for electrically heated units, or 2 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air Only



Max Door Height

2.8 m



Lengths Available

1.0m 1.5m 2.0m



## Air Only

| Model     | Max mounting height(m) | Airflow (m <sup>3</sup> /h) | Ventilation power (W) | Ventilation current (A) | Noise level (dB(A)) | Weight (kg) |
|-----------|------------------------|-----------------------------|-----------------------|-------------------------|---------------------|-------------|
| RO 1000 A | 2.8                    | 1700                        | 0.080 / 0.41          | 35/50                   | 24                  | 23          |
| RO 1500 A | 2.8                    | 2200                        | 0.117 / 0.53          | 36/51                   | 34                  | 33          |
| RO 2000 A | 2.8                    | 3200                        | 0.160 / 0.82          | 38/53                   | 44.5                | 43.5        |

## Water Heated

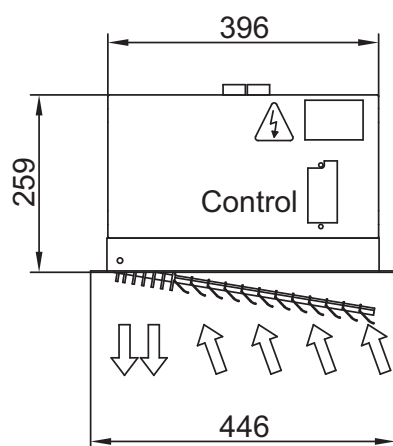
| Model     | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Water heating capacity 80/60°C (kW) | Water Drop Pressure (Pa) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------|-------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------|-------------|
| RO 1000 P | 2.8                     | 1450                        | 8.3                                 | 7360                     | 0.080 / 0.41                        | 37/51                   | 26.5        |
| RO 1500 P | 2.8                     | 2175                        | 13                                  | 7480                     | 0.117 / 0.53                        | 38/52                   | 37.5        |
| RO 2000 P | 2.8                     | 2850                        | 17.1                                | 6810                     | 0.160 / 0.82                        | 40/54                   | 49          |

Water heated: connection pipes 1/2" female. 2 rows coil. \*Tested to Amca 220-05

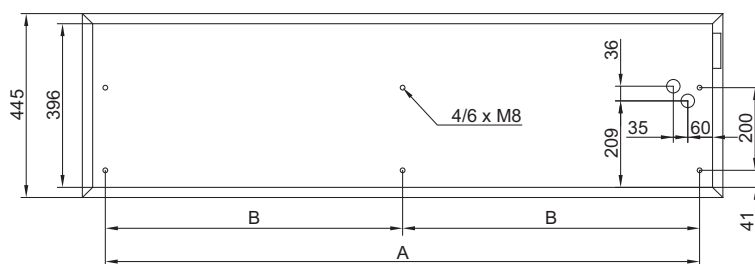
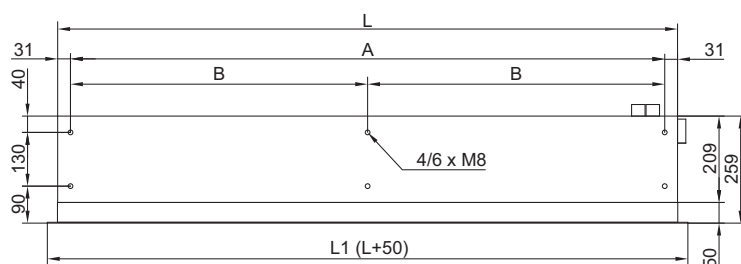
| Model          | Max mounting height (m) | Airflow (m³/h) | Electrical heating capacity (*) (kW) | Electrical heating voltage (V) | Electrical heating current (A) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|----------------|--------------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------|-------------|
| RO 1000 E400   | 2.8                     | 1700           | 5.6                                  | 400Vx3                         | 5.8/8.7                        | 0.080 / 0.41                        | 35/50                   | 26          |
| RO 1000 E9     | 2.8                     | 1700           | 9                                    | 400Vx3                         | 8.7/13                         | 0.080 / 0.41                        | 35/50                   | 27          |
| RO 1000 E230   | 2.8                     | 1700           | 5.6                                  | 230Vx1                         | 16.5/24.5                      | 0.080 / 0.41                        | 35/50                   | 26          |
| RO 1500 E400   | 2.8                     | 2200           | 9                                    | 400Vx3                         | 8.7/13                         | 0.117 / 0.53                        | 36/51                   | 37.5        |
| RO 1500 E230-6 | 2.8                     | 2200           | 5.6                                  | 230Vx1                         | 16.5/24.5                      | 0.117 / 0.53                        | 36/51                   | 37.5        |
| RO 1500 E230-9 | 2.8                     | 2200           | 9                                    | 230Vx1*                        | 26/39.1                        | 0.117 / 0.53                        | 36/51                   | 37.5        |
| RO 2000 E400   | 2.8                     | 3200           | 11.3                                 | 400Vx3                         | 8.1/16.3                       | 0.160 / 0.82                        | 38/53                   | 53.5        |
| RO 2000 E230   | 2.8                     | 3200           | 11.3                                 | 230Vx1*                        | 24.5/49.1                      | 0.160 / 0.82                        | 38/53                   | 53.5        |

\* 2 separate 230V power supplies required.

## Layouts and Dimensions



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



# Finesse

This discreet and high-performance air curtain sits neatly into a suspended ceiling and has separated air intake and outlets in order to avoid circulation of air. This increases the efficiency of the unit and maintains a strong seal across a doorway.

The design of the inlet grille acts as an air filter, preventing dust and airborne contaminants from entering. The grille can be periodically wiped or vacuumed.

It is suitable for a range of environments from banks and boutiques to shopping centres and airports. Using air curtains in these types of situations makes internal temperature control more practical, as heat loss through "open-door" trading is significantly reduced.

The air curtain features our integrated AirGENIO PRIME control system. This allows for automatic control with manual override. This is a more sophisticated control system which maximises the air curtain's efficiency while reducing energy usage.



Colours Available

White RAL9016 (standard)  
Any RAL colour



Fan Options

AC fan  
EC fan (option)



Mounting Options

Horizontal



Heating Options

Electric  
LPHW



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m



## Electrically Heated

| Model          | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Electrical heating capacity 400Vx3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------------------|----------------------------------------------|-------------------------------------|-------------------------|-------------|
| VCFISB100-E1AC | 3.5                     | 1800                        | 9.4                                          | 0.7 / 2.75                          | 55                      | 40          |
| VCFISB150-E1AC | 3.5                     | 2600                        | 15                                           | 1.0 / 4                             | 56                      | 55          |
| VCFISB200-E1AC | 3.5                     | 3450                        | 19                                           | 1.5 / 5.3                           | 57                      | 72          |
| VCFISB250-E1AC | 3.5                     | 4200                        | 20.5                                         | 1.6 / 6.5                           | 58                      | 86          |
| VCFISB100-E1EC | 3.5                     | 1950                        | 9.4                                          | 0.37 / 2.4                          | 54                      | 38          |
| VCFISB150-E1EC | 3.5                     | 3000                        | 15                                           | 0.54 / 3.5                          | 55                      | 49          |
| VCFISB200-E1EC | 3.5                     | 4000                        | 19                                           | 0.71 / 4.4                          | 56                      | 65          |
| VCFISB250-E1EC | 3.5                     | 4900                        | 20.5                                         | 0.85 / 5.4                          | 58                      | 77          |
| VCFISC100-E1EC | 4.2                     | 2800                        | 9.4                                          | 0.56 / 3.5                          | 58                      | 40          |
| VCFISC150-E1EC | 4.2                     | 3850                        | 15                                           | 0.72 / 4.4                          | 58                      | 52          |
| VCFISC200-E1EC | 4.2                     | 4900                        | 19                                           | 0.90 / 5.3                          | 59                      | 69          |
| VCFISC250-E1EC | 4.2                     | 6600                        | 20.5                                         | 1.20 / 7.3                          | 61                      | 81          |

\*Tested to ISO 27327-1



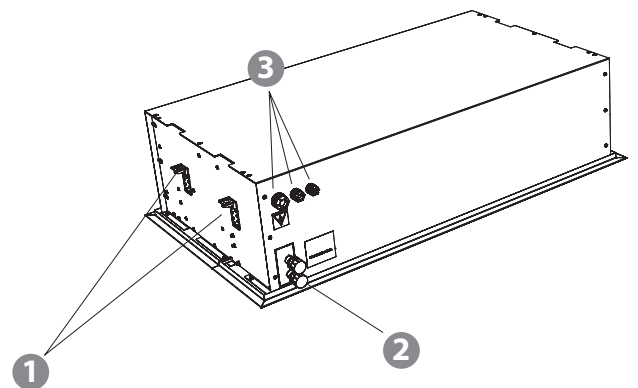
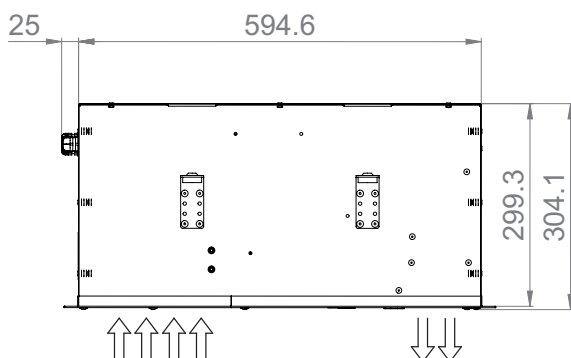
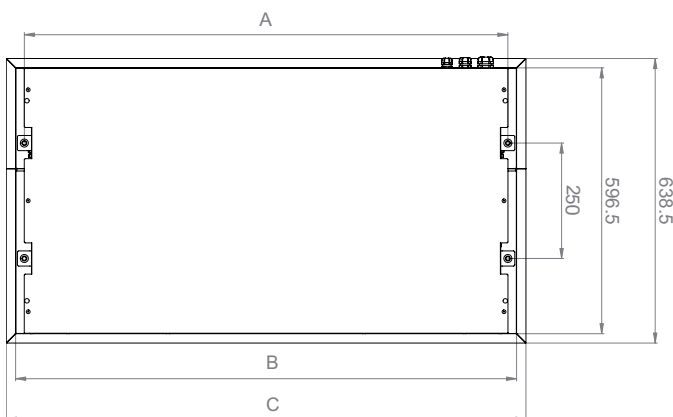
## Water Heated

| Model          | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Water heating capacity 80/60°C (kW) | Water drop pressure 80/60°C (Pa) | Water heating capacity 60/40°C (kW) | Water drop pressure 60/40°C (Pa) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------------------|-------------------------------------|----------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-------------------------|-------------|
| VCFI5B100-V2AC | 3.5                     | 1700                        | 17.4                                | 7100                             | 9.5                                 | 2400                             | 0.63 / 2.75                         | 54                      | 41          |
| VCFI5B150-V2AC | 3.5                     | 2450                        | 25.9                                | 7000                             | 14.2                                | 2400                             | 0.9 / 4.0                           | 55                      | 56          |
| VCFI5B200-V2AC | 3.5                     | 3400                        | 35.5                                | 8300                             | 19.5                                | 2800                             | 1.2 / 5.3                           | 57                      | 73          |
| VCFI5B250-V2AC | 3.5                     | 4100                        | 43.6                                | 13100                            | 24.4                                | 4600                             | 1.5 / 6.5                           | 58                      | 87          |
| VCFI5B100-V2EC | 3.5                     | 1900                        | 18.6                                | 8100                             | 10.1                                | 2700                             | 0.35 / 2.4                          | 54                      | 36          |
| VCFI5B150-V2EC | 3.5                     | 2900                        | 28.6                                | 8400                             | 15.6                                | 2800                             | 0.52 / 3.3                          | 55                      | 47          |
| VCFI5B200-V2EC | 3.5                     | 3900                        | 38.6                                | 9700                             | 21.1                                | 3200                             | 0.73 / 4.3                          | 56                      | 63          |
| VCFI5B250-V2EC | 3.5                     | 4750                        | 47.6                                | 15400                            | 26.5                                | 5300                             | 0.84 / 5.3                          | 58                      | 76          |
| VCFI5C100-V2EC | 4.2                     | 2650                        | 22.4                                | 11400                            | 12.1                                | 3700                             | 0.53 / 3.5                          | 57                      | 38          |
| VCFI5C150-V2EC | 4.2                     | 3750                        | 33.1                                | 11100                            | 17.9                                | 3600                             | 0.71 / 4.2                          | 58                      | 50          |
| VCFI5C200-V2EC | 4.2                     | 4650                        | 42.7                                | 11700                            | 23.2                                | 3800                             | 0.90 / 5.4                          | 58                      | 67          |
| VCFI5C250-V2EC | 4.2                     | 6400                        | 56.3                                | 21100                            | 31.1                                | 7200                             | 1.20 / 7.3                          | 60                      | 80          |

2 x ¾" connections.

Sound pressure measured 3m from the air curtain intake. Air intake air temperature 18°C.

## Layouts and Dimensions



1. Suspension holders
2. 3/4" water coil connection
3. Power supply cable entry

|           | A    | B      | C      |
|-----------|------|--------|--------|
| VCFI4B100 | 1085 | 1124.1 | 1166.1 |
| VCFI4B150 | 1585 | 1624.1 | 1666.1 |
| VCFI4B200 | 2085 | 2124.1 | 2166.1 |
| VCFI4B250 | 2465 | 2504.1 | 2546.1 |

# Recessed Windbox

This attractive air curtain, designed specifically for use in suspended ceilings, has separated air intake and outlets in order to avoid circulation of air. This increases the efficiency of the unit and maintains a strong seal across a doorway.

The casing is constructed from zinc plated steel, ready to be installed into a false ceiling. The inlet grille (free of maintenance) and outlet lamellas are integrated into a single white frame. Low noise centrifugal double inlet fans are driven by an external five-speed rotor motor with built-in thermal protection.

The Windbox Recessed is ideal for medium to large commercial premises and can be matched to the ceiling colour.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m



## Air Only

| Model       | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| RM 1000 A   | 3.5                     | 1800            | 0.212 / 0.94                        | 55                      | 57          |
| RM 1500 A   | 3.5                     | 2700            | 0.318 / 1.41                        | 56                      | 85          |
| RM 2000 A   | 3.5                     | 3600            | 0.424 / 1.88                        | 57                      | 109         |
| RM 2500 A   | 3.5                     | 4500            | 0.530 / 2.35                        | 58                      | 137         |
| RECM 1000 A | 3.5                     | 1840            | 0.132 / 1.14                        | 56                      | 57          |
| RECM 1500 A | 3.5                     | 2760            | 0.198 / 1.71                        | 57                      | 85          |
| RECM 2000 A | 3.5                     | 3680            | 0.264 / 2.28                        | 58                      | 109         |
| RECM 2500 A | 3.5                     | 4600            | 0.330 / 2.85                        | 59                      | 137         |
| RG 1000 A   | 3.8                     | 2400            | 0.642 / 2.85                        | 57                      | 61          |
| RG 1500 A   | 3.8                     | 3200            | 0.856 / 3.80                        | 58                      | 90          |
| RG 2000 A   | 3.8                     | 4800            | 1.284 / 5.70                        | 59                      | 118         |
| RG 2500 A   | 3.8                     | 5600            | 1.498 / 6.65                        | 60                      | 145         |
| RECG 1000 A | 4.2                     | 2700            | 0.225 / 1.95                        | 61                      | 61          |
| RECG 1500 A | 4.2                     | 3600            | 0.300 / 2.60                        | 62                      | 90          |
| RECG 2000 A | 4.2                     | 5400            | 0.450 / 3.90                        | 63                      | 118         |
| RECG 2500 A | 4.2                     | 6300            | 0.525 / 4.55                        | 64                      | 145         |

\*Tested to Amca 220-05

## Electrically Heated

| Model       | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| RM 1000 E   | 3.5                     | 1800            | 9                                             | 0.212 / 0.94                        | 55                      | 65          |
| RM 1500 E   | 3.5                     | 2700            | 12                                            | 0.318 / 1.41                        | 56                      | 98          |
| RM 2000 E   | 3.5                     | 3600            | 18                                            | 0.424 / 1.88                        | 57                      | 130         |
| RM 2500 E   | 3.5                     | 4500            | 18                                            | 0.530 / 2.35                        | 58                      | 162         |
| RECM 1000 E | 3.5                     | 1840            | 9                                             | 0.132 / 1.14                        | 56                      | 65          |
| RECM 1500 E | 3.5                     | 2760            | 12                                            | 0.198 / 1.71                        | 57                      | 98          |
| RECM 2000 E | 3.5                     | 3680            | 18                                            | 0.264 / 2.28                        | 58                      | 130         |
| RECM 2500 E | 3.5                     | 4600            | 18                                            | 0.330 / 2.85                        | 59                      | 162         |
| RG 1000 E   | 3.8                     | 2400            | 15                                            | 0.642 / 2.85                        | 57                      | 70          |
| RG 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856 / 3.80                        | 58                      | 104         |
| RG 2000 E   | 3.8                     | 4800            | 30                                            | 1.284 / 5.70                        | 59                      | 140         |
| RG 2500 E   | 3.8                     | 5600            | 30                                            | 1.498 / 6.65                        | 60                      | 172         |
| RECG 1000 E | 4.2                     | 2700            | 15                                            | 0.225 / 1.95                        | 61                      | 70          |
| RECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300 / 2.60                        | 62                      | 104         |
| RECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450 / 3.90                        | 63                      | 140         |
| RECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525 / 4.55                        | 64                      | 172         |

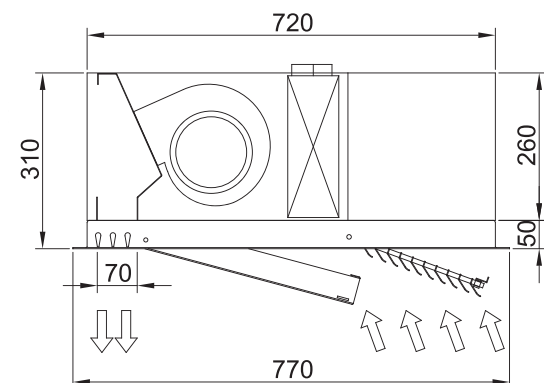
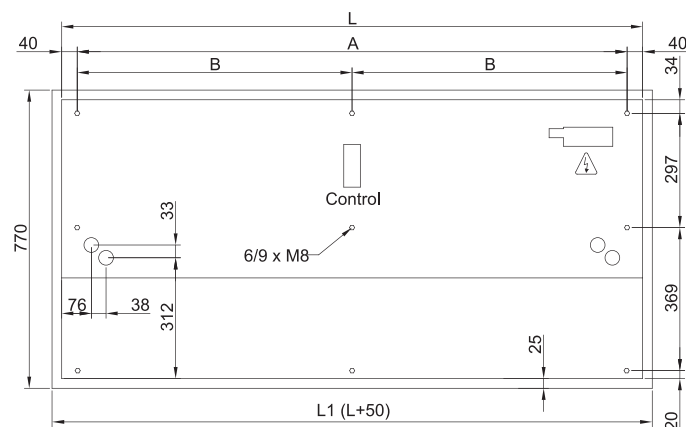
## Water Heated

| Model       | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|-------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| RM 1000 P   | 3.5                      | 1660           | 9.17                                  | 880                                | 8.56                                  | 4370                               | 8.52                                  | 1220                               | 0.428 / 1.90                          | 56                  | 63          |
| RM 1500 P   | 3.5                      | 2490           | 14.26                                 | 760                                | 13.69                                 | 6460                               | 14.34                                 | 4480                               | 0.642 / 2.85                          | 57                  | 93          |
| RM 2000 P   | 3.5                      | 3320           | 20.65                                 | 1930                               | 18.26                                 | 4790                               | 18.65                                 | 2060                               | 0.856 / 3.80                          | 58                  | 122         |
| RM 2500 P   | 3.5                      | 4150           | 26.92                                 | 3810                               | 22.12                                 | 3850                               | 24.32                                 | 4040                               | 1.070 / 4.75                          | 59                  | 153         |
| RECM 1000 P | 3.5                      | 1720           | 9.38                                  | 920                                | 8.77                                  | 4560                               | 8.74                                  | 1280                               | 0.132 / 1.14                          | 56                  | 63          |
| RECM 1500 P | 3.5                      | 2580           | 14.58                                 | 790                                | 14.02                                 | 6730                               | 14.71                                 | 4690                               | 0.198 / 1.71                          | 57                  | 93          |
| RECM 2000 P | 3.5                      | 3440           | 21.12                                 | 2010                               | 18.7                                  | 4990                               | 19.13                                 | 2150                               | 0.264 / 2.28                          | 58                  | 122         |
| RECM 2500 P | 3.5                      | 4300           | 27.53                                 | 3960                               | 23.33                                 | 4010                               | 24.95                                 | 4230                               | 0.330 / 2.85                          | 59                  | 153         |
| RG 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642 / 2.85                          | 57                  | 67          |
| RG 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856 / 3.80                          | 58                  | 98          |
| RG 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284 / 5.70                          | 59                  | 131         |
| RG 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498 / 6.65                          | 60                  | 163         |
| RECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225 / 1.95                          | 61                  | 67          |
| RECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300 / 2.60                          | 62                  | 98          |
| RECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450 / 3.90                          | 63                  | 131         |
| RECG 2500 P | 4.2                      | 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. \*Tested to Amca 220-05

## Layouts and 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 |



# Invisair

The Invisair is the architects choice. Designed for concealment inside casements, bulkheads or ceilings, it is the ideal choice for a fully integrated interior design. Unlike the conventional air curtain arrangement where the air is discharged at right angles to the air inlet assembly, the Invisair air intake and discharge grille are in the same plane so that the air flows through the unit in a straight line, with minimum pressure drop and maximum efficiency.

This air curtain is suitable for commercial and industrial premises. Using air curtains in these types of situations makes internal temperature control more practical, as heat loss through these often open doors is significantly reduced.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m  
3.0m



## Air Only

| Model       | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| IM 1000 A   | 3.5                     | 1980            | 0.318 / 1.41                        | 55                      | 48          |
| IM 1500 A   | 3.5                     | 2640            | 0.424 / 1.88                        | 56                      | 55          |
| IM 2000 A   | 3.5                     | 3960            | 0.636 / 2.82                        | 57                      | 68          |
| IM 2500 A   | 3.5                     | 4620            | 0.742 / 3.29                        | 58                      | 73          |
| IM 3000 A   | 3.5                     | 5280            | 0.848 / 3.76                        | 59                      | 84          |
| IG 1000 A   | 3.8                     | 2400            | 0.642 / 2.85                        | 57                      | 53          |
| IG 1500 A   | 3.8                     | 3200            | 0.856 / 3.80                        | 58                      | 60          |
| IG 2000 A   | 3.8                     | 4800            | 1.284 / 5.70                        | 59                      | 78          |
| IG 2500 A   | 3.8                     | 5600            | 1.498 / 6.65                        | 60                      | 83          |
| IG 3000 A   | 3.8                     | 6400            | 1.712 / 7.60                        | 61                      | 94          |
| IECG 1000 A | 4.2                     | 2700            | 0.213 / 1.86                        | 61                      | 53          |
| IECG 1500 A | 4.2                     | 3600            | 0.300 / 2.60                        | 62                      | 60          |
| IECG 2000 A | 4.2                     | 5400            | 0.450 / 3.90                        | 63                      | 78          |
| IECG 2500 A | 4.2                     | 6300            | 0.525 / 4.55                        | 64                      | 83          |
| IECG 3000 A | 4.2                     | 7200            | 0.586 / 5.96                        | 65                      | 94          |

\*Tested to Amca 220-05

## Electrically Heated

| Model       | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| IM 1000 E   | 3.5                     | 1980            | 9                                             | 0.318 / 1.41                        | 56                      | 58          |
| IM 1500 E   | 3.5                     | 2640            | 12                                            | 0.424 / 1.88                        | 56                      | 67          |
| IM 2000 E   | 3.5                     | 3960            | 18                                            | 0.636 / 2.82                        | 57                      | 86          |
| IM 2500 E   | 3.5                     | 4620            | 18                                            | 0.742 / 3.29                        | 58                      | 93          |
| IM 3000 E   | 3.5                     | 5280            | 24                                            | 0.848 / 3.76                        | 59                      | 108         |
| IG 1000 E   | 3.8                     | 2400            | 15                                            | 0.642 / 2.85                        | 57                      | 64          |
| IG 1500 E   | 3.8                     | 3200            | 22.5                                          | 0.856 / 3.80                        | 58                      | 73          |
| IG 2000 E   | 3.8                     | 4800            | 30                                            | 1.284 / 5.70                        | 59                      | 96          |
| IG 2500 E   | 3.8                     | 5600            | 30                                            | 1.498 / 6.65                        | 60                      | 103         |
| IG 3000 E   | 3.8                     | 6400            | 30                                            | 1.712 / 7.60                        | 61                      | 118         |
| IECG 1000 E | 4.2                     | 2700            | 15                                            | 0.213 / 1.86                        | 61                      | 64          |
| IECG 1500 E | 4.2                     | 3600            | 22.5                                          | 0.300 / 2.60                        | 62                      | 73          |
| IECG 2000 E | 4.2                     | 5400            | 30                                            | 0.450 / 3.90                        | 63                      | 96          |
| IECG 2500 E | 4.2                     | 6300            | 30                                            | 0.525 / 4.55                        | 64                      | 103         |
| IECG 3000 E | 4.2                     | 7200            | 30                                            | 0.586 / 5.96                        | 65                      | 118         |

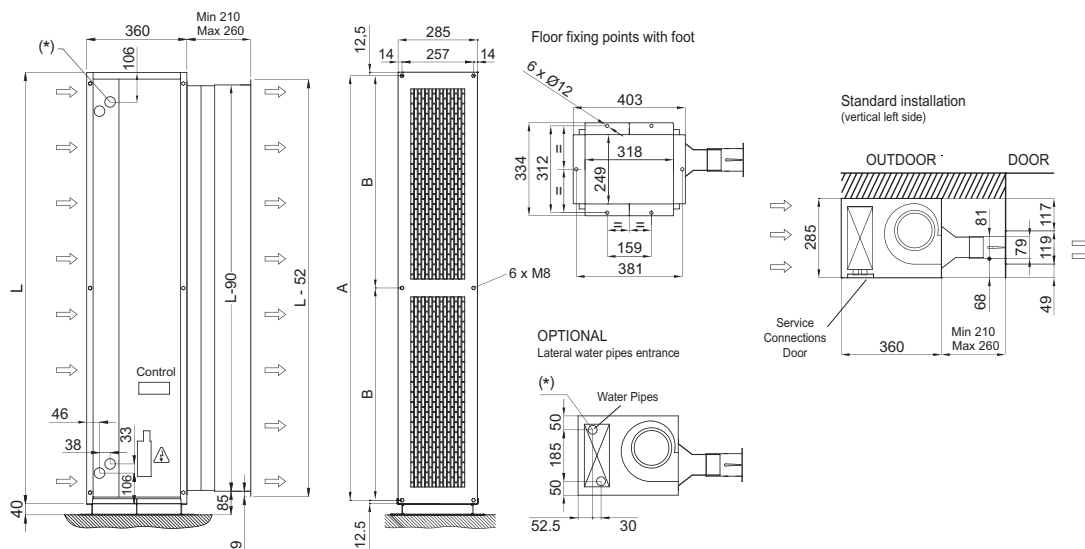
## Water Heated

| Model       | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|-------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| IM 1000 P   | 3.5                      | 1860           | 9.84                                  | 1000                               | 9.22                                  | 4990                               | -                                     | -                                  | 0.318 / 1.41                          | 55                  | 55          |
| IM 1500 P   | 3.5                      | 2480           | 14.23                                 | 760                                | 13.65                                 | 6430                               | -                                     | -                                  | 0.424 / 1.88                          | 56                  | 63          |
| IM 2000 P   | 3.5                      | 3720           | 22.17                                 | 2190                               | 19.7                                  | 5470                               | -                                     | -                                  | 0.636 / 2.82                          | 57                  | 78          |
| IM 2500 P   | 3.5                      | 4340           | 27.69                                 | 4000                               | 23.48                                 | 4060                               | -                                     | -                                  | 0.742 / 3.29                          | 58                  | 86          |
| IM 3000 P   | 3.5                      | 4960           | 33.15                                 | 6560                               | 28.29                                 | 6.73                               | -                                     | -                                  | 0.848 / 3.76                          | 59                  | 100         |
| IG 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642 / 2.85                          | 57                  | 60          |
| IG 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856 / 3.80                          | 58                  | 69          |
| IG 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284 / 5.70                          | 59                  | 89          |
| IG 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498 / 6.65                          | 60                  | 94          |
| IG 3000 P   | 3.8                      | 6000           | 37.35                                 | 8110                               | 32.10                                 | 8410                               | 34.03                                 | 7180                               | 1.712 / 7.60                          | 61                  | 108         |
| IECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.50                                 | 2090                               | 0.213 / 1.86                          | 54                  | 61          |
| IECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300 / 2.60                          | 62                  | 69          |
| IECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450 / 3.90                          | 63                  | 89          |
| IECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525 / 4.55                          | 64                  | 94          |
| IECG 3000 P | 4.2                      | 6800           | 40.34                                 | 9290                               | 34.81                                 | 9710                               | 37.16                                 | 8400                               | 0.586 / 5.96                          | 65                  | 108         |

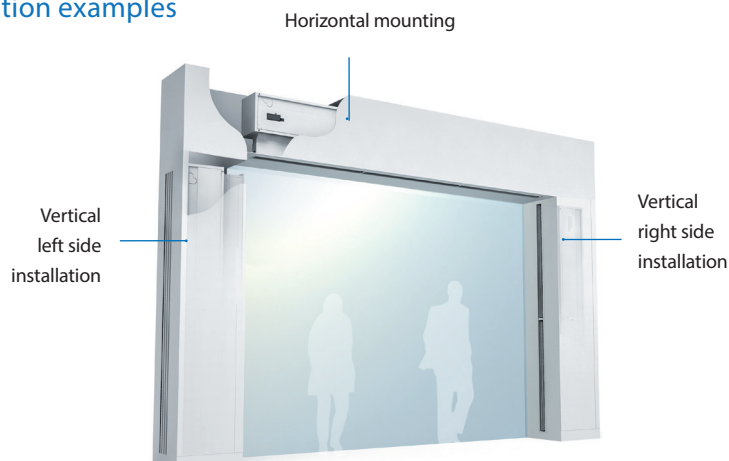
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.

P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

## Layouts and Dimensions



## Installation examples



|      | L    | I    | A     |
|------|------|------|-------|
| 1500 | 1550 | 1525 | 726.5 |
| 2000 | 2055 | 2030 | 1015  |
| 2500 | 2555 | 2530 | 1265  |

# Rotowind

A revolving door acts as a low-speed fan, forcing a mass of cold or warm air into a room with each rotation. By combining an air curtain with a revolving door system, this unconditioned air is prevented from entering, and a more welcoming entrance is created.

Two types of tailor made Rotowind models are available, designed to fit perfectly to the curvature of the revolving door. A room-side unit that is mounted above the door, but blows across the inner opening, and a room-side external unit, that blows air across the inner opening, but is mounted on the inside of the building.

The Rotowind has a circular discharge jet with anodised aluminium lamellas and low noise centrifugal double inlet fans driven by an external rotor motor with built in thermal protection contact. Units may be custom painted to match the colour of the revolving door, to blend with the internal, or surrounding aesthetics of the building.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal



Heating Options

Electric LPHW



Max Door Height

4.2 m



Lengths Available

1.0m 1.5m  
2.0m 2.5m



## Electrically Heated

| Model           | Max mounting height (m) | Airflow (m³/h) | Electrical heating capacity 400Vx3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------------|-------------------------|----------------|----------------------------------------------|-------------------------------------|-------------------------|-------------|
| ROTO G 1000 E   | 3.8                     | 2400           | 15                                           | 0.642 / 2.85                        | 57                      | -           |
| ROTO G 1500 E   | 3.8                     | 3200           | 22.5                                         | 0.856 / 3.80                        | 58                      | -           |
| ROTO G 2000 E   | 3.8                     | 4800           | 30                                           | 1.284 / 5.70                        | 59                      | -           |
| ROTO G 2500 E   | 3.8                     | 5600           | 30                                           | 1.498 / 6.65                        | 60                      | -           |
| ROTO ECG 1000 E | 4.2                     | 2700           | 15                                           | 0.225 / 1.95                        | 61                      | -           |
| ROTO ECG 1500 E | 4.2                     | 3600           | 22.5                                         | 0.300 / 2.60                        | 62                      | -           |
| ROTO ECG 2000 E | 4.2                     | 5400           | 30                                           | 0.450 / 3.90                        | 63                      | -           |
| ROTO ECG 2500 E | 4.2                     | 6300           | 30                                           | 0.525 / 4.55                        | 64                      | -           |

\*Tested to Amca 220-05



Water Heated

| Model           | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|-----------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| ROTO G 1000 P   | 3.8                      | 2250           | 11.04                                 | 1230                               | 10.42                                 | 6190                               | 10.56                                 | 1790                               | 0.642 / 2.85                          | 57                  | -           |
| ROTO G 1500 P   | 3.8                      | 3000           | 16.02                                 | 940                                | 15.47                                 | 8020                               | 16.37                                 | 5670                               | 0.856 / 3.80                          | 58                  | -           |
| ROTO G 2000 P   | 3.8                      | 4500           | 24.92                                 | 2700                               | 22.29                                 | 6810                               | 23.15                                 | 3030                               | 1.284 / 5.70                          | 59                  | -           |
| ROTO G 2500 P   | 3.8                      | 5250           | 31.16                                 | 4930                               | 26.61                                 | 5060                               | 28.76                                 | 5450                               | 1.498 / 6.65                          | 60                  | -           |
| ROTO ECG 1000 P | 4.2                      | 2550           | 11.89                                 | 1400                               | 11.27                                 | 7110                               | 11.5                                  | 2090                               | 0.225 / 1.95                          | 61                  | -           |
| ROTO ECG 1500 P | 4.2                      | 3400           | 17.29                                 | 1070                               | 16.77                                 | 9240                               | 17.86                                 | 6620                               | 0.300 / 2.60                          | 62                  | -           |
| ROTO ECG 2000 P | 4.2                      | 5100           | 26.86                                 | 3080                               | 24.14                                 | 7850                               | 25.24                                 | 3530                               | 0.450 / 3.90                          | 63                  | -           |
| ROTO ECG 2500 P | 4.2                      | 5950           | 33.63                                 | 5650                               | 28.84                                 | 5840                               | 31.38                                 | 6360                               | 0.525 / 4.55                          | 64                  | -           |

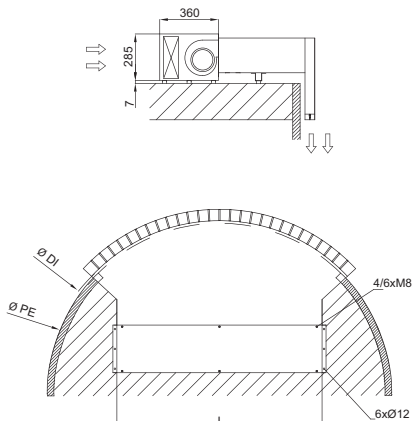
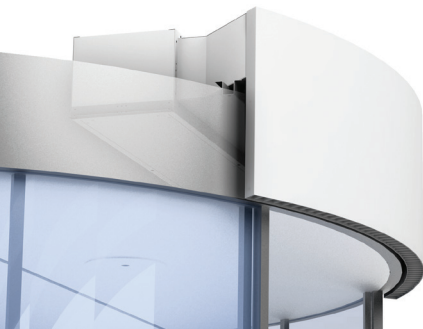
Water heated: connection pipes P86 and P64 are 2x3/4" female (male if lateral pipes), P54 2x1" male.

P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

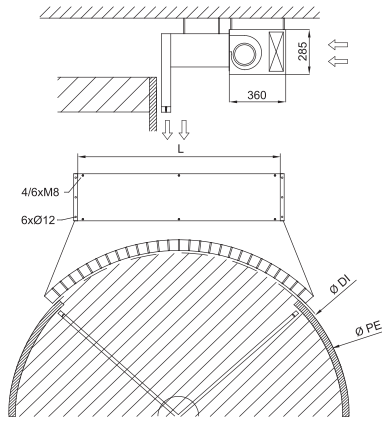
Layouts and Dimensions

Rotowind air curtains are tailor-made for any kind of revolving door.

Top of door mounting



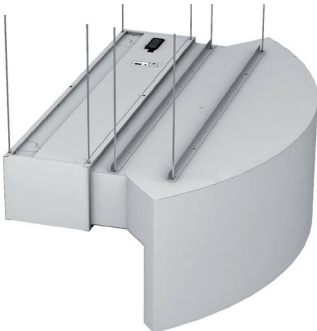
False ceiling mounting



Fixation Systems

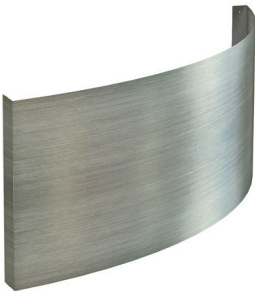


Fixed onto the door



Hanging from ceiling mounting

Fascia cover options



- RAL9016 standard
- Any classic RAL colour
- Stainless steel AISI 304

# Maxwell

The Maxwell air curtain has "Coanda" effect double outlets to help achieve an increased air jet velocity. Its adjustable pitch angled outlet aerofoil shaped vanes make it a perfect choice for larger industrial doorways.

Constructed in galvanised steel, this high-performance air curtain has efficient, low noise axial fans driven by an external rotor motor.

The Maxwell is suitable for vertical and horizontal installations and units can be joined together through its multiple modules to cover loading bays, hangars and factory wide entrances.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections for LPHW and air only units. 10 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)



Mounting Options

Horizontal  
Vertical



Heating Options

LPHW  
Air only



Max Door Height

6.0 m



Lengths Available

1.5m 2.0m 2.5m  
3.0m 3.5m



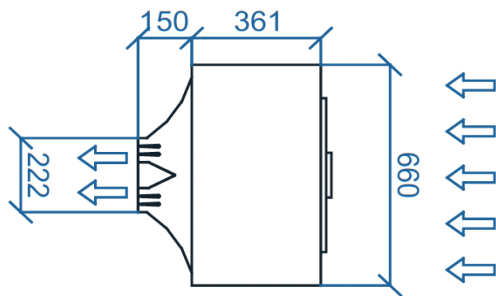
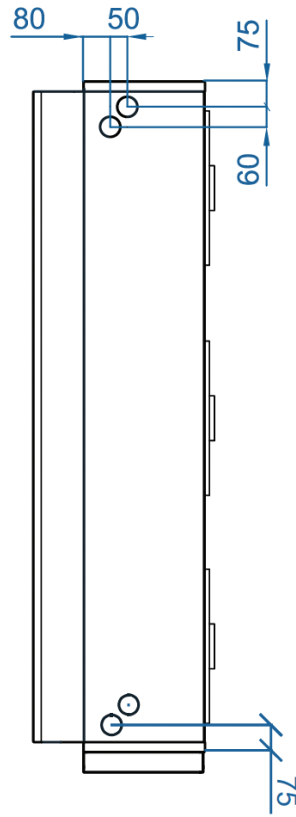
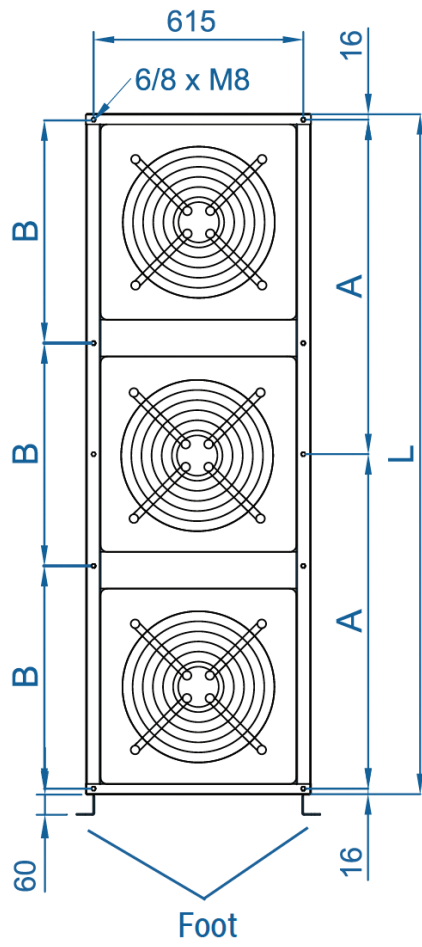
## Air Only

| Model      | Max mounting height (m) | Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|------------|-------------------------|----------------|-------------------------------------|-------------------------|-------------|
| MXW 1500 A | 6                       | 7000           | 0.68 / 2.96                         | 60                      | 79          |
| MXW 2000 A | 6                       | 10500          | 1.02 / 4.44                         | 61                      | 103         |
| MXW 2500 A | 6                       | 14000          | 1.36 / 5.92                         | 62                      | 126         |
| MXW 3000 A | 6                       | 17500          | 1.70 / 7.40                         | 63                      | 150         |
| MXW 3500 A | 6                       | 20800          | 2.04 / 8.88                         | 64                      | 173         |

## Water Heated

| Model      | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|------------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| MXW 1500 P | 6                        | 6800           | 41.39                                 | 12040                              | 34.09                                 | 12620                              | -                                     | -                                  | 0.68 / 2.96                           | 59                  | 95          |
| MXW 2000 P | 6                        | 10200          | 61.25                                 | 16920                              | 50.16                                 | 13660                              | -                                     | -                                  | 1.02 / 4.44                           | 60                  | 126         |
| MXW 2500 P | 6                        | 13600          | 80.05                                 | 13940                              | 66.19                                 | 14600                              | -                                     | -                                  | 1.36 / 5.92                           | 61                  | 158         |
| MXW 3000 P | 6                        | 17000          | 99.88                                 | 16260                              | 82.22                                 | 14560                              | -                                     | -                                  | 1.70 / 7.40                           | 62                  | 189         |
| MXW 3500 P | 6                        | 20300          | 118.28                                | 14080                              | 97.92                                 | 14910                              | -                                     | -                                  | 2.04 / 8.88                           | 63                  | 221         |

\*Tested to Amca 220-05.



|          | L    | A    | B      |
|----------|------|------|--------|
| MXW 1500 | 1500 | 734  | -      |
| MXW 2000 | 2000 | 984  | -      |
| MXW 2500 | 2500 | 1234 | -      |
| MXW 3000 | 3040 | -    | 1002.5 |
| MXW 3500 | 3620 | -    | 1196   |



# VCP

The VCP air curtain has an optimal shaped nozzle with a unique straw system grille, to evenly distribute the flow of air across the entire width of the doorway to ensure the best possible seal.

It can be situated above or to the side of industrial doorways using a specially designed and adjustable foot plate. The galvanised sheet casing and closed construction motors with self-lubricating ball bearings provide easy maintenance under the hardest of operating conditions.

These units are ideal for use in loading bays, factories, hangars, etc so that forklift drivers don't have to get out of their cabs to open and close doors making moving from one area to another safer and more convenient. Unlike plastic slat curtains, which quickly become opaque with use, an air curtain provides 100% visibility at all times.

An Air Genio IC Prime controller, with 5 speed selection, integrated timer, temperature sensor and BMS MODBUS, is included.



Option available



Colours Available

White RAL9016 (standard)  
Galvanised (standard)



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

6.0 m



Lengths Available

1.65m 2.20m  
2.75m



## Air Only

| Model          | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| VCIN2A150-SOAC | 6                       | 11550           | 0.85 / 3.9                          | 63                      | 51          |
| VCIN2A200-SOAC | 6                       | 15100           | 1.1 / 5.1                           | 64.9                    | 69          |
| VCIN2A250-SOAC | 6                       | 18500           | 1.4 / 6.5                           | 66.7                    | 83          |
| VCIN2A150-SOEC | 6                       | 11400           | 1 / 6.5                             | 63.1                    | 51          |
| VCIN2A200-SOEC | 6                       | 15200           | 1.4 / 8.7                           | 64.9                    | 69          |
| VCIN2A250-SOEC | 6                       | 19000           | 1.7 / 10.8                          | 66.8                    | 83          |

\*Tested to ISO 27327-1

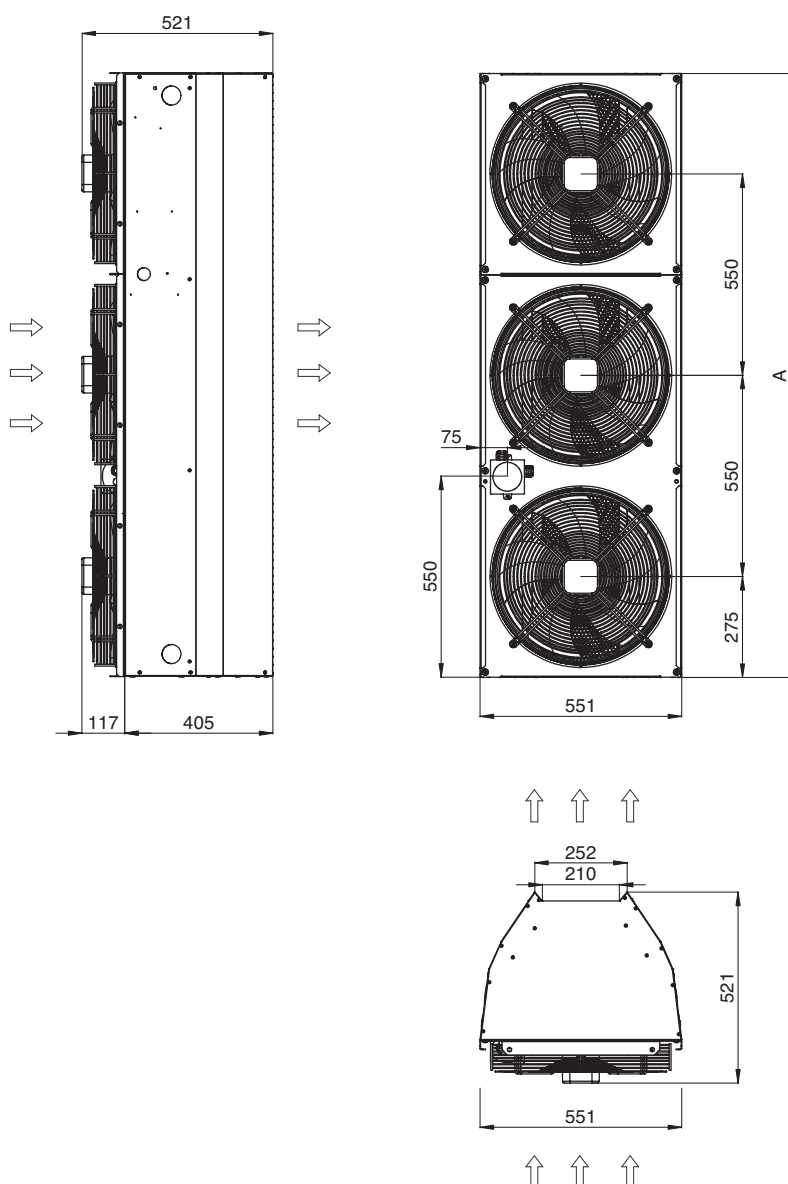
## Electrically Heated

| Model          | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| VCIN2A150-E1AC | 6                       | 11550           | 24.3                                          | 0.85 / 3.9                          | 63                      | 55          |
| VCIN2A200-E1AC | 6                       | 15100           | 32.4                                          | 1.1 / 5.1                           | 64.9                    | 74          |
| VCIN2A250-E1AC | 6                       | 18500           | 40.5                                          | 1.4 / 6.5                           | 66.7                    | 89          |
| VCIN2A150-E1EC | 6                       | 11400           | 24.3                                          | 1 / 6.5                             | 63                      | 55          |
| VCIN2A200-E1EC | 6                       | 15200           | 32.4                                          | 1.4 / 8.7                           | 64.9                    | 74          |
| VCIN2A250-E1EC | 6                       | 19000           | 40.5                                          | 1.7 / 10.8                          | 66.8                    | 89          |

| Model          | Max mounting height (m) | Airflow (m <sup>3</sup> /h) | Water heating capacity 80/60°C (kW) | Water drop pressure 80/60°C (Pa) | Water heating capacity 60/40°C (kW) | Water drop pressure 60/40°C (Pa) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|-----------------------------|-------------------------------------|----------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-------------------------|-------------|
| VCIN2A150-V2AC | 6                       | 10300                       | 62.9                                | 18000                            | 37.6                                | 8000                             | 0.85 / 3.9                          | 63.1                    | 60          |
| VCIN2A200-V2AC | 6                       | 13700                       | 84.6                                | 14000                            | 50.2                                | 7000                             | 1.1 / 5.1                           | 64                      | 78          |
| VCIN2A250-V2AC | 6                       | 17000                       | 106                                 | 16000                            | 62.7                                | 5000                             | 1.4 / 6.5                           | 65.5                    | 98          |
| VCIN2A150-V2EC | 6                       | 10500                       | 63.6                                | 18000                            | 37.9                                | 8000                             | 1 / 6.5                             | 63.2                    | 60          |
| VCIN2A200-V2EC | 6                       | 14000                       | 85.5                                | 14000                            | 50.8                                | 7000                             | 1.4 / 8.7                           | 64.1                    | 78          |
| VCIN2A250-V2EC | 6                       | 17500                       | 108                                 | 11000                            | 63.8                                | 5000                             | 1.7 / 10.8                          | 65.6                    | 98          |

2 x 1" BSP pipe connections \*Tested to ISO 27327-1

## Layouts and Dimensions



| VCIN2 | A    |
|-------|------|
| 150   | 1650 |
| 200   | 2200 |
| 250   | 2750 |

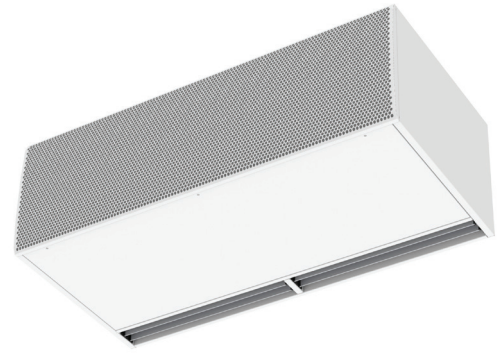
# Industrial Windbox

This air curtain has very powerful air and heating outputs, making it suitable for use on warehouse type entrances up to 7 metres high.

The adjustable aerofoil shaped outlet vanes can be angled to provide the optimum seal across an entrance. It incorporates low noise centrifugal double inlet fans driven by an external rotor motor with built-in thermal protection. A perforated inlet grille acts as an air filter to prevent debris entering and removes the need for an internal filter.

Using air curtains in these types of industrial situations makes internal temperature control more practical, as heat loss through these often wide open doors is significantly reduced.

An Advanced Pro controller, with built in sensors that intelligently monitor and control temperatures, is included. The wall mounted LCD display offers 5 fan speed selections and 3 heater stages for electrically heated units, or 5 speed fan selection for LPHW and air only units. 10 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour



Fan Options

AC fan



Mounting Options

Horizontal  
Vertical



Heating Options

Electric, LPHW  
Air only



Max Door Height

7.0 m



Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



## Air Only

| Model     | Max mounting height (m) | *Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-----------|-------------------------|-----------------|-------------------------------------|-------------------------|-------------|
| L 1000 A  | 5                       | 4000            | 1.04 / 4.40                         | 63                      | 72          |
| L 1500 A  | 5                       | 6000            | 1.56 / 6.60                         | 64                      | 108         |
| L 2000 A  | 5                       | 8000            | 2.08 / 8.80                         | 65                      | 145         |
| L 2500 A  | 5                       | 10000           | 2.60 / 11                           | 66                      | 177         |
| L 3000 A  | 5                       | 12000           | 3.12 / 13.20                        | 67                      | 213         |
| XL 1000 A | 7                       | 5300            | 1.40 / 6                            | 65                      | 78          |
| XL 1500 A | 7                       | 7950            | 2.10 / 9                            | 66                      | 117         |
| XL 2000 A | 7                       | 10600           | 2.80 / 12                           | 67                      | 157         |
| XL 2500 A | 7                       | 13250           | 3.50 / 15                           | 68                      | 192         |
| XL 3000 A | 7                       | 15900           | 4.20 / 18                           | 69                      | 211         |

\*Tested to Amca 220-05

## Electrically Heated

| Model        | Max mounting height (m) | *Airflow (m³/h) | Electrical heating capacity 400V x3-50Hz (kW) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|--------------|-------------------------|-----------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------|
| L 1000 E     | 5                       | 4000            | 19                                            | 1.04 / 4.40                         | 63                      | 90          |
| L 1000 E25   | 5                       | 4000            | 25                                            | 1.04 / 4.40                         | 63                      | 90          |
| L 1500 E     | 5                       | 6000            | 30.5                                          | 1.56 / 6.60                         | 64                      | 135         |
| L 1500 E37.5 | 5                       | 6000            | 37.5                                          | 1.56 / 6.60                         | 64                      | 135         |
| L 2000 E     | 5                       | 8000            | 42 *                                          | 2.08 / 8.80                         | 65                      | 180         |
| L 2000 E50   | 5                       | 8000            | 50 *                                          | 2.08 / 8.80                         | 65                      | 180         |
| L 2500 E     | 5                       | 10000           | 50 *                                          | 2.60 / 11                           | 66                      | 225         |
| L 2500 E60   | 5                       | 10000           | 60 *                                          | 2.60 / 11                           | 66                      | 225         |
| L 3000 E     | 5                       | 12000           | 60 *                                          | 3.12 / 13.20                        | 67                      | 270         |
| L 3000 E70   | 5                       | 12000           | 70 *                                          | 3.12 / 13.20                        | 67                      | 270         |
| XL 1000 E    | 7                       | 5300            | 25                                            | 1.40 / 6.00                         | 65                      | 95          |
| XL 1000 E35  | 7                       | 5300            | 35                                            | 1.40 / 6.00                         | 65                      | 96          |
| XL 1500 E    | 7                       | 7950            | 37.5                                          | 2.10 / 9.00                         | 66                      | 144         |
| XL 1500 E52  | 7                       | 7950            | 52.5 *                                        | 2.0 / 9.00                          | 66                      | 150         |
| XL 2000 E    | 7                       | 10600           | 50 *                                          | 2.80 / 12                           | 67                      | 192         |
| XL 2000 E70  | 7                       | 10600           | 70 *                                          | 2.80 / 12                           | 67                      | 200         |
| XL 2500 E    | 7                       | 13250           | 60 *                                          | 3.50 / 15                           | 68                      | 240         |
| XL 2500 E70  | 7                       | 13250           | 70 *                                          | 3.50 / 15                           | 68                      | 250         |
| XL 3000 E    | 7                       | 15900           | 70 *                                          | 4.20 / 18                           | 69                      | 288         |
| XL 3000 E80  | 7                       | 15900           | 80 **                                         | 4.20 / 18                           | 69                      | 300         |

\*2 separate power supplies. \*\*3 separate power supplies



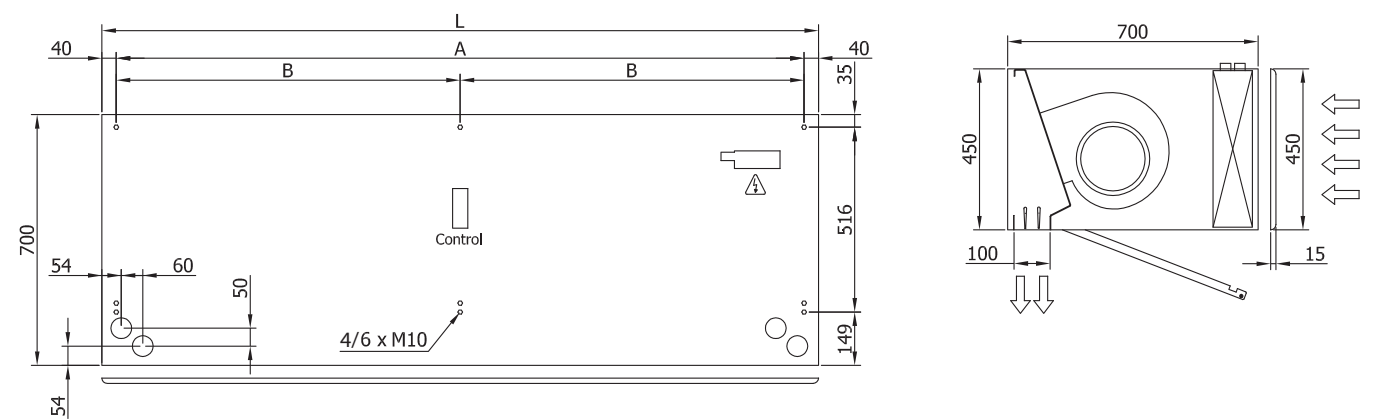
Water Heated

| Model     | Max. mounting height (m) | Airflow (m³/h) | Water heating capacity (kW) @ 80/60°C | Water drop pressure (Pa) @ 80/60°C | Water heating capacity (kW) @ 60/40°C | Water drop pressure (Pa) @ 60/40°C | Water heating capacity (kW) @ 50/40°C | Water drop pressure (Pa) @ 50/40°C | Power/current (fans) 230V-50Hz (kW/A) | Noise level (dB(A)) | Weight (kg) |
|-----------|--------------------------|----------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|---------------------|-------------|
| L 1000 P  | 5                        | 3800           | 19.68                                 | 1730                               | 16.18                                 | 2570                               | 17.18                                 | 1560                               | 1.04 / 4.40                           | 62                  | 89          |
| L 1500 P  | 5                        | 5700           | 29.64                                 | 950                                | 25.92                                 | 3210                               | 29.04                                 | 5710                               | 1.56 / 6.60                           | 63                  | 128         |
| L 2000 P  | 5                        | 7600           | 43.01                                 | 2390                               | 35.58                                 | 3680                               | 38.93                                 | 4330                               | 2.08 / 8.80                           | 64                  | 171         |
| L 2500 P  | 5                        | 9500           | 56.01                                 | 4670                               | 45.55                                 | 4750                               | 49.36                                 | 4990                               | 2.60 / 11                             | 65                  | 214         |
| L 3000 P  | 5                        | 11400          | 69.27                                 | 8090                               | 56.78                                 | 8350                               | 59.96                                 | 5770                               | 3.12 / 13.20                          | 66                  | 260         |
| XL 1000 P | 7                        | 4900           | 22.68                                 | 2250                               | 18.98                                 | 3410                               | 20.43                                 | 2120                               | 1.40 / 6                              | 64                  | 94          |
| XL 1500 P | 7                        | 7350           | 34.52                                 | 1240                               | 30.45                                 | 4270                               | 34.55                                 | 7780                               | 2.10 / 9                              | 65                  | 137         |
| XL 2000 P | 7                        | 9800           | 50.1                                  | 3140                               | 41.83                                 | 5910                               | 46.36                                 | 5910                               | 2.80 / 12                             | 66                  | 183         |
| XL 2500 P | 7                        | 12250          | 65.29                                 | 6130                               | 53.56                                 | 6330                               | 58.81                                 | 6330                               | 3.50 / 15                             | 68                  | 227         |
| XL 3000 P | 7                        | 14700          | 80.79                                 | 10640                              | 66.78                                 | 11140                              | 71.47                                 | 7890                               | 4.20 / 18                             | 68                  | 278         |

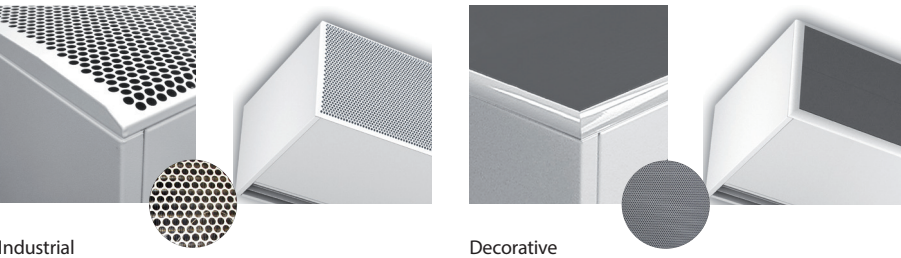
Water heated: 2x1" for 1000 and 1500, 2x1¼" for 2000 and 2500, 2x1½" for 3000. Connection pipes P86, P64 and P54 are female (male if lateral pipes).

P86 2 rows coil, P64 3 rows coil, P54 4 rows coil. \*Tested to Amca 220-05

Layouts and Dimensions



Grille Finishes



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

# KOOL (for cold stores)

The KOOL comprises a powder coated steel case containing double inlet fans. Ambient air is drawn in through a perforated steel mesh at the front of the unit and delivered across the doorway via adjustable lamella.

This unit provides a tight ambient air seal across the opening of refrigerated stores and freezers to prevent cold air from escaping and warm air from entering. This reduces operating costs by saving energy and improves the temperature and performance of the store. For applications with extreme cold and/or humidity and/or corrosive conditions, the KOOL is available in IP 55, with optional painted or stainless steel finish.

By removing the need for fast acting shutter doors and plastic strip curtains, forklift drivers are given total visibility through the entrance.

An Advanced Pro controller is included with a wall mounted LCD display that offers 5 fan speed selections. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Option available



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Brushed stainless steel



Fan Options

AC fan (standard)  
EC fan (option)



Mounting Options

Horizontal  
Vertical



Heating Options

Air only



Max Door Height

4.2 m



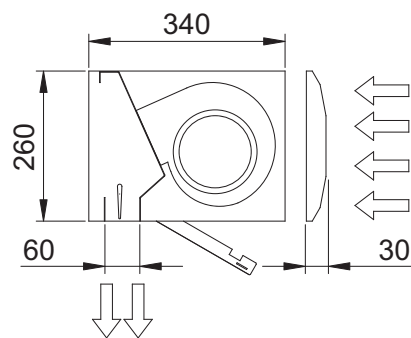
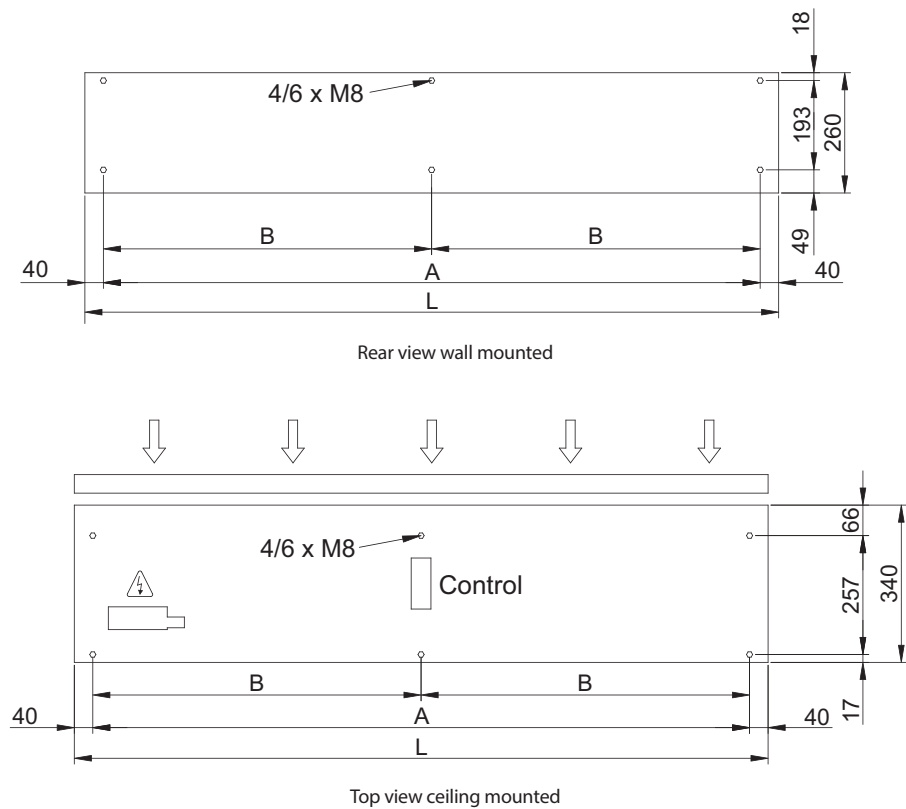
Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



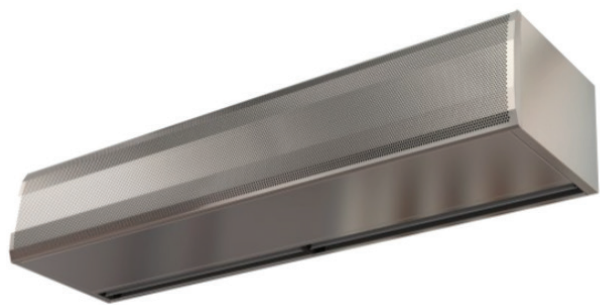
## Air Only

| Model       | Max mounting height (m) | Airflow (m³/h) | Power/current fans 230V-50Hz (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|-------------|-------------------------|----------------|-------------------------------------|-------------------------|-------------|
| KM 1000 A   | 3.5                     | 1800           | 0.212 / 0.94                        | 55                      | 29          |
| KM 1500 A   | 3.5                     | 2700           | 0.318 / 1.41                        | 56                      | 44          |
| KM 2000 A   | 3.5                     | 3600           | 0.424 / 1.88                        | 57                      | 53          |
| KM 2500 A   | 3.5                     | 4500           | 0.530 / 2.35                        | 58                      | 58          |
| KM 3000 A   | 3.5                     | 5400           | 0.636 / 2.82                        | 59                      | 76          |
| KECM 1000 A | 3.5                     | 1840           | 0.142 / 1.24                        | 56                      | 33          |
| KECM 1500 A | 3.5                     | 2760           | 0.213 / 1.86                        | 57                      | 50          |
| KECM 2000 A | 3.5                     | 3680           | 0.284 / 2.48                        | 58                      | 61          |
| KECM 2500 A | 3.5                     | 4600           | 0.355 / 3.10                        | 59                      | 68          |
| KECM 3000 A | 3.5                     | 5520           | 0.426 / 3.72                        | 60                      | 76          |
| KG 1000 A   | 3.8                     | 2400           | 0.642 / 2.85                        | 57                      | 37          |
| KG 1500 A   | 3.8                     | 3200           | 0.856 / 3.80                        | 58                      | 55          |
| KG 2000 A   | 3.8                     | 4800           | 1.284 / 5.70                        | 59                      | 71          |
| KG 2500 A   | 3.8                     | 5600           | 1.498 / 6.65                        | 60                      | 78          |
| KG 3000 A   | 3.8                     | 6400           | 1.712 / 7.60                        | 61                      | 86          |
| KECG 1000 A | 4.2                     | 2700           | 0.225 / 1.95                        | 61                      | 37          |
| KECG 1500 A | 4.2                     | 3600           | 0.300 / 2.60                        | 62                      | 56          |
| KECG 2000 A | 4.2                     | 5400           | 0.450 / 3.90                        | 63                      | 71          |
| KECG 2500 A | 4.2                     | 6300           | 0.525 / 4.55                        | 64                      | 78          |
| KECG 3000 A | 4.2                     | 7200           | 0.600 / 5.20                        | 65                      | 86          |



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

Finishes and details



Optional: For applications with extreme cold and/or humidity and/or corrosive conditions, KOOL is available in IP 55, with optional painted or stainless steel finish. KOOL is a compact and small dimension air curtain with a timeless design and pleasing to the eye. Thanks to the air discharge design, KOOL air curtain ensures a low turbulence and high velocity air jet, thus efficiently separating spaces with high temperature differences.

It operates with double-inlet centrifugal fans driven by an external rotor motor, featuring a low noise level and special IP55 protection, consisting of: sealed bearings, encapsulated stator, and silicone-sealed cable. It includes IP55 junction boxes and IP68 cable glands for the electronics, transformer, and general connections.



# Fly

The Fly is specially designed for insect control at entrances to food factories, industrial applications, hospitals, or clean zones. It creates a high velocity air barrier to prevent flying insects from entering a building.

The self-supporting casing is made of galvanized steel plate, finished in structural epoxy-polyester. The large perforated inlet grille helps reduce maintenance requirements. The unit incorporates anodized aluminium outlet vanes, aerofoil shaped, adjustable from 0 to 15 degrees each side to allow accurate control over direction of airflow.

An Advanced Pro controller is included with a wall mounted LCD display that offers 5 fan speed selections. 7 metres of control cable and an IR hand-held remote are supplied, as standard. An optional Clever PRO intelligent programmable control compatible with Modbus RTU for BMS is also available.



Colours Available

White RAL9016 (standard)  
Any classic RAL colour  
Stainless steel



Fan Options

EC fan



Mounting Options

Horizontal



Heating Options

Air only



Max Door Height

2.0m 3.0m  
3.5m 4.0m



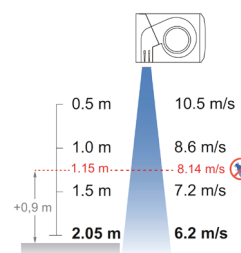
Lengths Available

1.0m 1.5m 2.0m  
2.5m 3.0m



## Fly K • Air only

| Model        | Max mounting height (m) | Airflow (m³/h) | Power/current fans (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|--------------|-------------------------|----------------|---------------------------|-------------------------|-------------|
| FLY K 1000 A | 2                       | 2700           | 0.213/1.86                | 61                      | 37          |
| FLY K 1500 A | 2                       | 3600           | 0.284/2.48                | 62                      | 56          |
| FLY K 2000 A | 2                       | 5400           | 0.426/3.72                | 63                      | 71          |
| FLY K 2500 A | 2                       | 6300           | 0.497/4.34                | 64                      | 78          |
| FLY K 3000 A | 2                       | 7200           | 0.568/4.96                | 65                      | 86          |

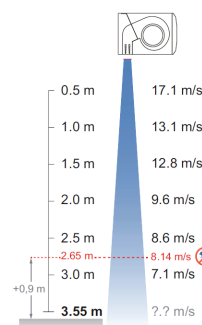


According to standard NSF-37-2012, the maximum installation height is the speed probe point at 8.14m/s plus 0.9m.

So FLY K can be used until 1.15m+0.9m=2.05m.

## Fly KBB • Air only

| Model          | Max mounting height (m) | Airflow (m³/h) | Power/current fans (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|----------------|---------------------------|-------------------------|-------------|
| FLY KBB 1000 A | 3.5                     | 3900           | 0.921/4.08                | 67                      | 38          |
| FLY KBB 1500 A | 3.5                     | 5200           | 1.228/5.44                | 67.5                    | 62          |
| FLY KBB 2000 A | 3.5                     | 7800           | 1.842/8.16                | 68                      | 77          |
| FLY KBB 2500 A | 3.5                     | 9100           | 2.149/9.52                | 68.5                    | 93          |
| FLY KBB 3000 A | 3.5                     | 10400          | 2.456/10.88               | 69                      | 106         |

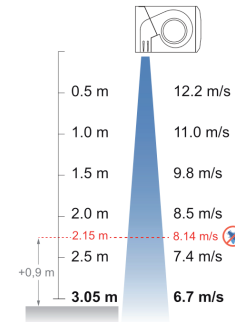


According to standard NSF-37-2012, the maximum installation height is the speed probe point at 8.14m/s plus 0.9m.

So FLY KBB can be used until 2.65m+0.9m=3.55m.

## Fly KL • Air only

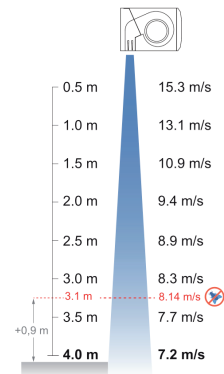
| Model         | Max mounting height (m) | Airflow (m³/h) | Power/current fans (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|---------------|-------------------------|----------------|---------------------------|-------------------------|-------------|
| FLY KL 1000 A | 3                       | 4000           | 1.40/6.00                 | 63                      | 76          |
| FLY KL 1500 A | 3                       | 6000           | 1.56/6.60                 | 64                      | 114         |
| FLY KL 2000 A | 3                       | 8000           | 2.08/8.80                 | 65                      | 153         |
| FLY KL 2500 A | 3                       | 10000          | 2.60/11.00                | 66                      | 187         |
| FLY KL 3000 A | 3                       | 12000          | 3.12/13.20                | 67                      | 225         |



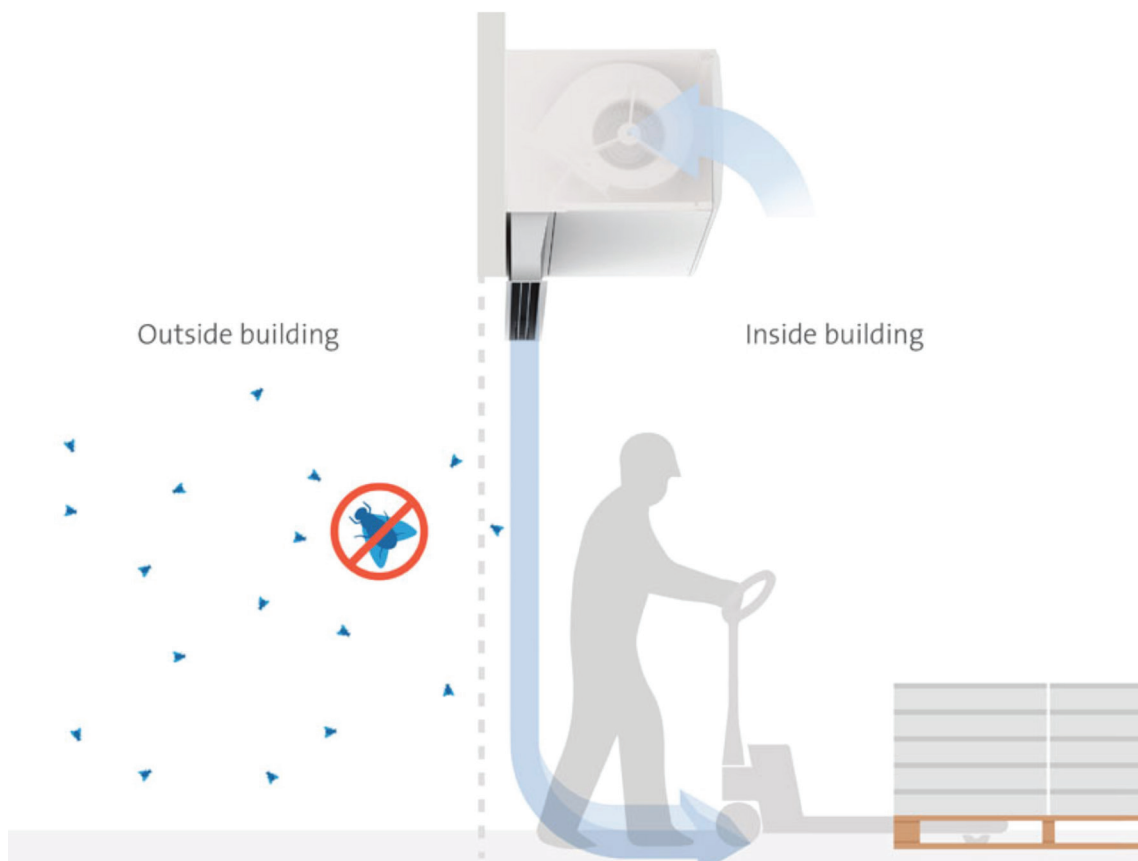
According to standard NSF-37-2012, the maximum installation height is the speed profile point at 8.14m/s plus 0.9m.  
So FLY KL can be used until  $2.15\text{m} + 0.9\text{m} = 3.05\text{m}$ .

## Fly KL • Air only

| Model          | Max mounting height (m) | Airflow (m³/h) | Power/current fans (kW/A) | Noise level (@5m) dB(A) | Weight (kg) |
|----------------|-------------------------|----------------|---------------------------|-------------------------|-------------|
| FLY KXL 1000 A | 4                       | 5300           | 1.04/6.00                 | 65                      | 82          |
| FLY KXL 1500 A | 4                       | 7950           | 2.10/9.00                 | 66                      | 123         |
| FLY KXL 2000 A | 4                       | 10600          | 2.80/12.00                | 67                      | 165         |
| FLY KXL 2500 A | 4                       | 13250          | 3.50/15.00                | 68                      | 202         |
| FLY KXL 3000 A | 4                       | 15900          | 4.20/18.00                | 69                      | 243         |



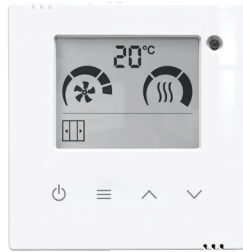
According to standard NSF-37-2012, the maximum installation height is the speed profile point at 8.14m/s plus 0.9m.  
So FLY KXL can be used until  $3.1\text{m} + 0.9\text{m} = 4.0\text{m}$ .



# Air Curtain Controllers

## Advanced Pro Controller

An advanced controller, with built in sensors that intelligently monitor and control temperatures.



**ADVANCED PRO**  
✓ Included



**IR Control**  
✓ Included



**RJ11 Cable**  
✓ Included

### Features

- 2 and 5 fan speed
- 3 heating stages for electrically heated units
- Hand held infrared remote control
- 2.8" LCD screen with backlight and touch display.
- Integrates an ambient temperature sensor and door sensor.
- Door delay, maintenance programming, speed and heating limitation, control memory, temperature units, auto-cooling program, control lock and boost mode.
- Plug & Play connection with RJ11 cable.

This controller is suitable for the Mini Optima, Recessed Optima, Aris, Top, Dam, Industrial Windbox, Invisair, Kool, Maxwell, Recessed Windbox, Rotowind, Rund, Smart, Windbox and Zen air curtain.

## Clever Pro Controller

Compact and powerful wall mounted controller, with 2.8 inch backlit colour TFT screen, with intelligent control, to automatically control the air curtain to the building entrance conditions, optimising comfort and energy efficiency.



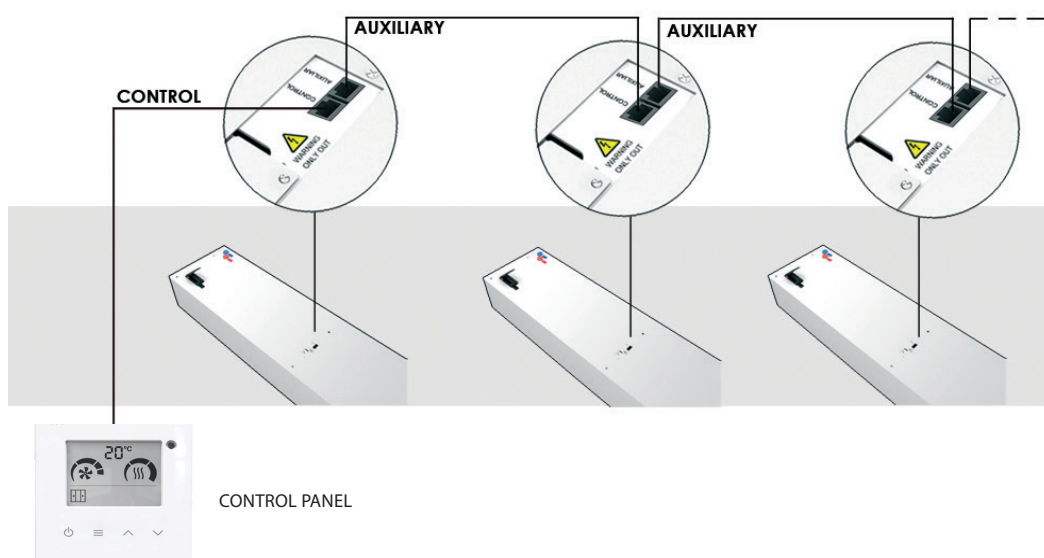
### Features

- Compact ABS housing in RAL9016 white with protected circuit board
- Touchpad control with quick-access and setup menus
- Plug & Play connection with RJ11, USB, DIN, or MODBUS RTU BMS.
- Built-in timer, calendar mode, and service alert.
- Automatic or semi-automatic operation via door and temperature sensors.
- Boost and thermo fan modes for heating or adverse conditions.
- Door contact and 7 metres of control cable included
- Up to 12 units can be connected to one controller

This controller is suitable for the Mini Optima, Recessed, Optima, Aris, Top, Dam, Industrial Windbox, Invisair, Kool, Maxwell, Recessed Windbox, Rotowind, Rund, Smart, Windbox and Zen air curtain.

## Multiple Air Curtain Connection

It is easy to manage several units using only one control panel, see example below.





## Air Genio Prime Controller

Allows for automatic control with manual override.

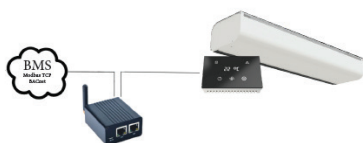


### Features

- 2 modes: Manual and Auto with Air Genio Prime application
- Built-in temperature sensor
- Timer, available 6 intervals for each day
- Available as master and slave variants controlling up to 10 units
- BMS connectivity - Modbus RTU
- Air Genio app with remote control functions

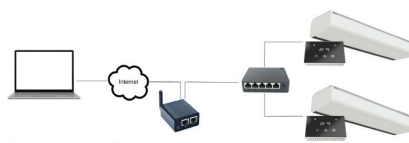
Optional BMS or Cloud gateway:

Air Genio Prime BMS gateway designed for BMS integration of Air Genio Prime controlled devices via Modbus TCP or BACnet protocols.



This controller is suitable for the Essensse Neo and Finesse air curtain.

Air Genio Prime Cloud gateway for cloud connection of Prime-controlled devices, to control and manage the device via a web interface, from any location.



Up to 10 PRIME controllers can be connected to one device.

## Air Genio Comfort Controller

This controller has a colour touch screen display for intuitive operation, connected to the air curtain using standard 4 core screened control cable.



### Features

- 3 fan speeds
- 2 heating stages for electrically heated units controlled with PMW
- Error indication contact
- Available as master and slave variants controlling up to 10 unit
- BMS connectivity - Modbus RTU

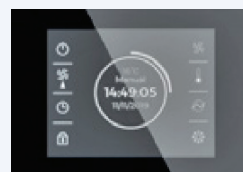
### Options

- Door contact
- External 3 port on/off value

This controller is suitable for the Standesse air curtain.

## Air Genio Superior Controller

An advanced colour touch screen controller providing intuitive operation control, connected to the air curtain using standard 4 core screened control cable.



### Features

- 3 fan speeds
- 3 heating stages for electrically heated units controlled with PMW
- Automatic control with manual override
- Error indication contact
- Available as master and slave variants controlling up to 10 units
- BMS connectivity - Modbus RTU or modbus TCP

### Options

- Door contact
- External 3 port modulating value

This controller is suitable for the Standesse air curtain.

## Air Genio IC Prime Controller

This controller is suitable for the VCP industrial air curtain.



### Features

- 5 fan speeds
- Integrated timer
- Built-in temperature sensor
- Automatic antifreeze protection
- BMS connectivity - Modbus RTU
- Air Genio app with remote control functions

### Options

- Door contact

# EC Air Curtains



## EC technology

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

The EC motor 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, valid for 50/60Hz.

## Advantages and benefits

The new EC air curtains are efficient in reducing the running cost by 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: Essense Neo, Finesse, Invisair, Kool, Rotowind, Rund, Smart, VCP, Windbox, Windbox Recessed and Zen.

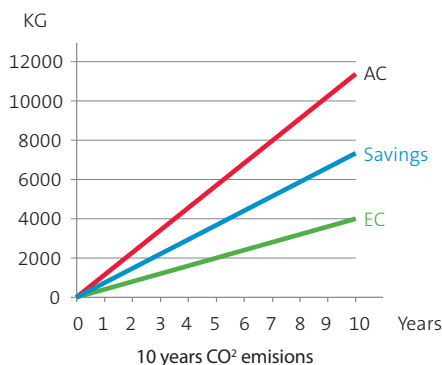
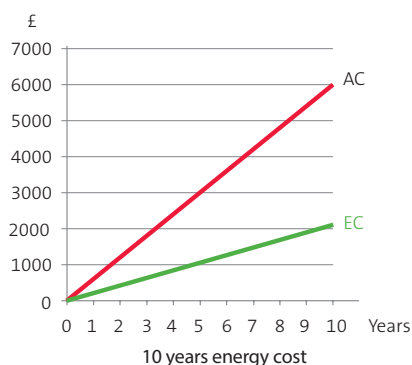
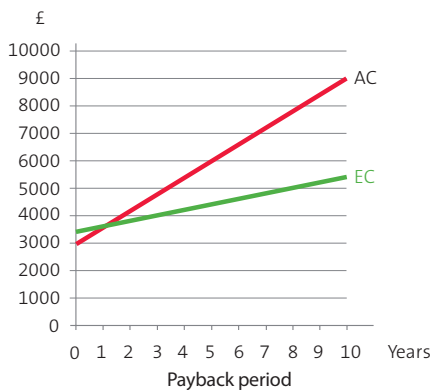
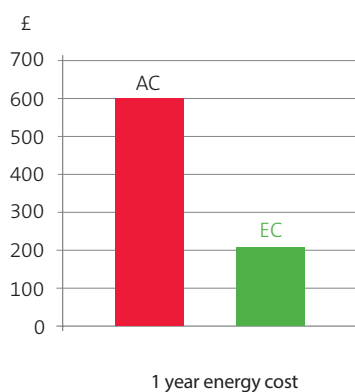
## EC vs AC air curtain - energy saving example

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

Example:

- Door dimension: 2m width by 3.8m height
- Running time: 12 hours/day, 5 days/week, 52 weeks (~ 1 year)
- Energy cost: £0.15 kW/hr
- Selected unit: AC - G2000 EC - ECG2000

|                              | AC air curtain | EC air curtain | Difference |
|------------------------------|----------------|----------------|------------|
| Total fans power             | 1.284 kW       | 0.450 kW       | -0.834     |
| Air curtain price            | £4,014         | £4,317         | £303.00    |
| Total fan energy consumption | 4006 kW/hr     | 1404 kW/hr     | -2602      |
| Energy Cost                  | £601           | £211           | -£390.00   |
| CO2 Emissions                | 2111 kg        | 740 kg         | -1371      |



Result: The payback period for the cost of the EC fan upgrade is 1 1/2 years. After this time, energy usage will be lower and savings will be made. Installing an EC air curtain will also reduce CO2 emissions to the environment.

# Accessories

We offer a large range of accessories, which can be provided upon request.

Here are some of the possibilities.

## Customisation



Cut Vinyl Graphics



Digital Panels



Full Panel Images

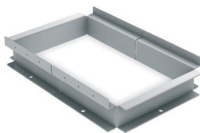


Signage



Clocks

## Mounting



Feet



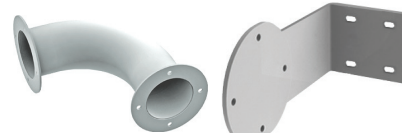
Wall



Arms



Vibration Dampers



Mounting "Goal posts"

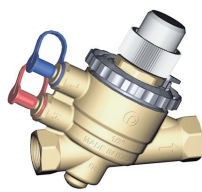
## Valves



Thermostatic



Solenoid



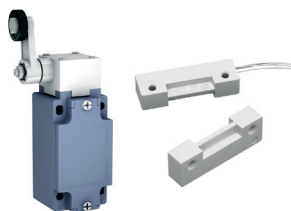
Modulating Valves



## Sensors



Anti-freeze



Door Contact



External Temperature





JS Air Curtains

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Sales Office: Ground Floor Office, Halls Orchard Barn, Oak Lane, Apuldrum, Chichester PO20 7FD

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