PRODUCT CATALOGUE

20 YEARS
20th ANNIVERSARY

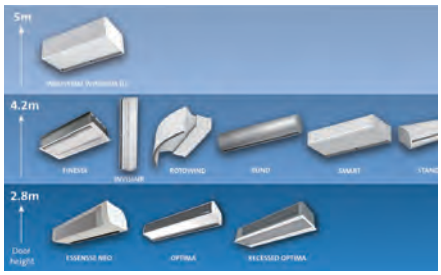
The UK's Leading Air Curtain Specialist

JS air curtains

ABOUT US

JS Air Curtains has been supplying a comprehensive and competitive range of air curtains to the UK since 1999. We are the ideal partner for your next air curtain project.

Expert advice
Experienced sales engineers will provide technical assistance in all aspects of air curtain design, specification and installation.



Comprehensive product range
Our wide range covers everything from economical air curtains for small shop doorways to large industrial units for warehouses.

Member of the Condair Group
JS Air Curtains is a member of the Condair Group, the leading manufacturer and provider in areas of humidification and evaporative cooling.

Online air curtain selector tool
This tool will guide you to select products from our range that may be appropriate for your project. Visit **www.jsaircurtains.com/selector** to find out more.

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 **www.jsaircurtains.com/cpd**.

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

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INTRODUCTION

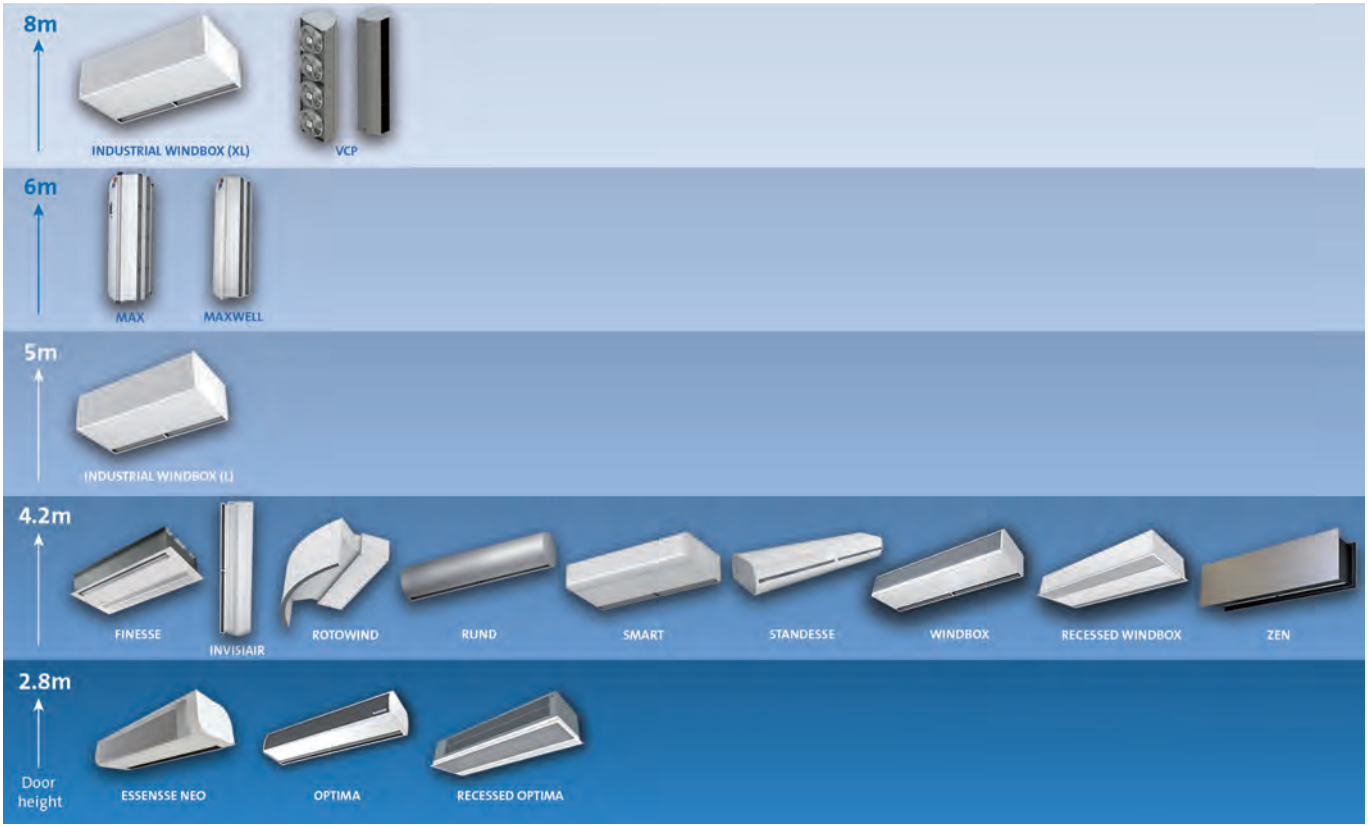
Air curtains help maintain a comfortable, safe and energy efficient indoor environment.

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.

SELECTION GUIDE



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

Model	Page	Exposed	Recessed	Revolving	Vertical	Horizontal	Cold store	Commercial/ Public building/ Retail	Industrial/ Warehouse	EC fan option	Clever control option
Essense Neo	14-15	■				■		■		■	
Finesse	22-23		■			■		■		■	
Invisair	26-27		■		■	■		■		■	■
Kool	38-39	■			■	■	■		■	■	
Max	30-31	■			■	■	■		■		
Maxwell	32-33	■			■	■	■		■		
Mini Optima	16-17	■				■		■			
Recessed Optima	20-21		■			■		■			
Rotowind	28-29	■		■		■		■		■	■
Rund	6-7	■		■	■	■		■		■	■
Smart	12-13	■				■		■		■	■
Standesse	18-19	■				■		■			
VCP	34-35	■			■	■	■		■	■	
Windbox	10-11	■			■	■		■		■	■
Industrial Windbox	36-37	■			■	■	■		■		
Recessed Windbox	24-25		■			■		■		■	■
Zen	8-9	■			■	■		■		■	■

RUND

Option available
(see page 42)

The Rund air curtain is a popular choice with architects. It has an extremely attractive cylindrical design with a facetted 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 from 0 to 15˚ on either side.

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

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

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

MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.5m
1.5m 3.0m
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
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 400Vx3-50Hz kW	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
RUND M 1000 E	3.5	1980	3/6/9	0.318 / 1.41	55	49
RUND M 1500 E	3.5	2640	4/8/12	0.424 / 1.88	56	75
RUND M 2000 E	3.5	3960	6/12/18	0.636 / 2.82	57	97
RUND M 2500 E	3.5	4620	6/12/18	0.742 / 3.29	58	108
RUND M 3000 E	3.5	5280	8/16/24	0.848 / 3.76	59	119
RUND G 1000 E	3.8	2400	5/10/15	0.642 / 2.85	57	54
RUND G 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	81
RUND G 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	107
RUND G 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	118
RUND G 3000 E	3.8	6400	10/20/30	1.712 / 7.60	61	128
RUND ECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	61	54
RUND ECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	81
RUND ECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	107
RUND ECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	118
RUND ECG 3000 E	4.2	7200	10/20/30	0.600 / 5.20	65	128

RUND

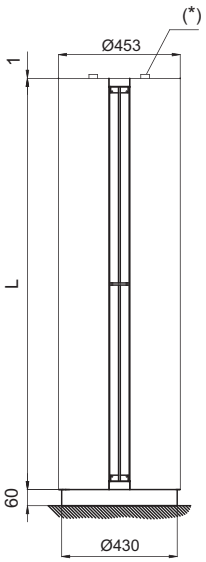
Water heated

			P86		P64		P54				
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	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	19.70	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	32.10	8410	34.03	7180	1.712 / 7.60	61	119
RUND ECG 1000 P	4.2	2550	11.89	1400	11.27	7110	11.50	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

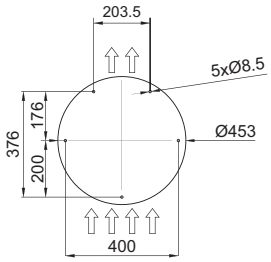
P86 - 2 rows coil, 2 x ¾" male connector. P64 - 3 rows coil, 2 x ¾" male connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to Amca 220-05

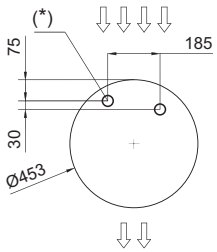
Layouts and dimensions

Vertical installation

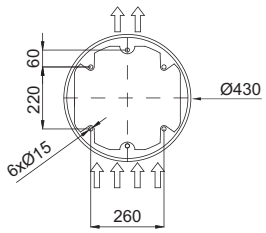


Floor fixing points without foot





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 mounted with lateral arms

Wall/ceiling mounted with angle supports

Wall/ceiling mounted through arms

Floor mounted (goalpost)

ZEN

Option available
(See page 42)

This smart and minimalistic air curtain can be fitted with bespoke fascia panels providing a corporate brand opportunity or add to functioning. Options include clocks, CAD cut vinyl lettering, laser cut, edge lit lettering – the possibilities are endless.

Unlike the conventional air curtain arrangement where the air is discharged at right angles to the air inlet assembly, the air intake and discharge grille are in the same plane so that the 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.

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

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

MOUNTING OPTIONS
Horizontal
Vertical

MAX MOUNT HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.0m
1.5m 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

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
ZEN M 1000 E	3.5	1980	3/6/9	0.318 / 1.41	55	40
ZEN M 1500 E	3.5	2640	4/8/12	0.424 / 1.88	56	58
ZEN M 2000 E	3.5	3960	6/12/18	0.636 / 2.82	57	77
ZEN M 2500 E	3.5	4620	6/12/18	0.742 / 3.29	58	94
ZEN G 1000 E	3.8	2400	5/10/15	0.642 / 2.85	57	43
ZEN G 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	62
ZEN G 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	85
ZEN G 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	103
ZEN ECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	61	43
ZEN ECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	62
ZEN ECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	85
ZEN ECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	103

*tested to Amca 220-05

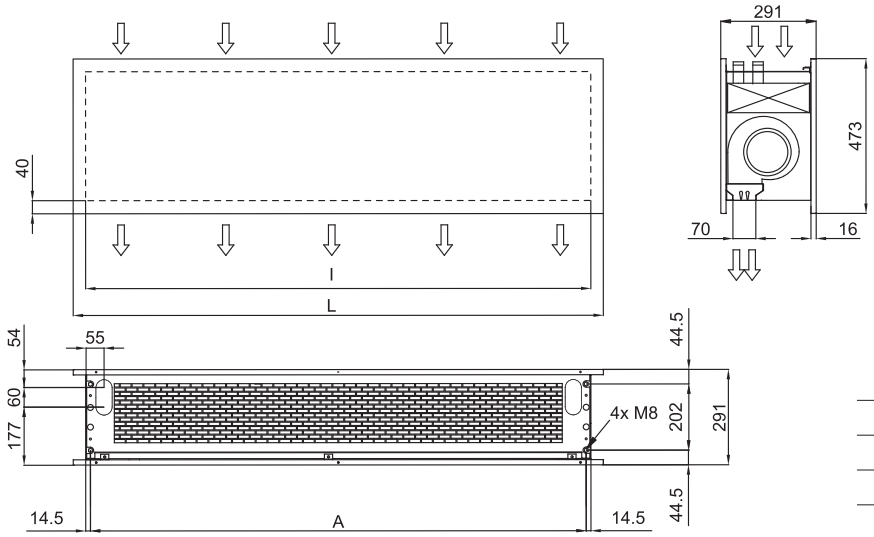
ZEN

Water heated

			P86		P64		P54				
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	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
ZEN M 1000 P	3.5	1860	9.84	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	19.70	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	11.50	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

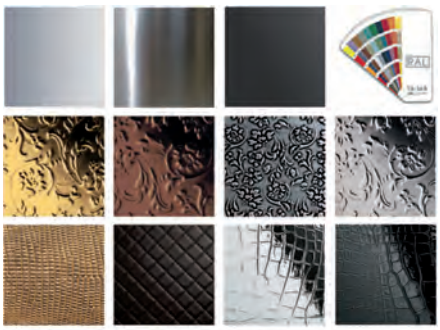
P86 - 2 rows coil, 2 x ¾" connector. P64 - 3 rows coil, 2 x ¾" connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to Amca 220-05

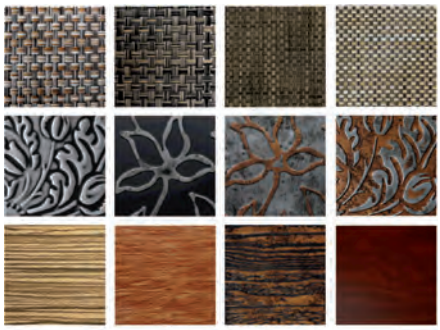
Layouts and dimensions



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

Finish examples





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

WINDBOX

Option available
(See page 42)

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.

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.5m
1.5m 3.0m
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
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 400Vx3-50Hz kW	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
M 1000 E	3.5	1800	3/6/9	0.212 / 0.94	55	37
M 1500 E	3.5	2700	4/8/12	0.318 / 1.41	56	57
M 2000 E	3.5	3600	6/12/18	0.424 / 1.88	57	75
M 2500 E	3.5	4500	6/12/18	0.530 / 2.35	58	94
M 3000 E	3.5	5400	8/16/24	0.636 / 2.82	59	112
ECM 1000 E	3.5	1840	3/6/9	0.132 / 1.14	56	37
ECM 1500 E	3.5	2760	4/8/12	0.198 / 1.71	57	57
ECM 2000 E	3.5	3680	6/12/18	0.264 / 2.28	58	75
ECM 2500 E	3.5	4600	6/12/18	0.330 / 2.85	59	94
ECM 3000 E	3.5	5520	8/16/24	0.396 / 3.42	60	112
G 1000 E	3.8	2400	5/10/15	0.642 / 2.85	57	52
G 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	63
G 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	100
G 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	106
G 3000 E	3.8	6400	10/20/30	1.712 / 7.60	61	120
ECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	61	52
ECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	63
ECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	100
ECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	106
ECG 3000 E	4.2	7200	10/20/30	0.600 / 5.20	65	120

WINDBOX

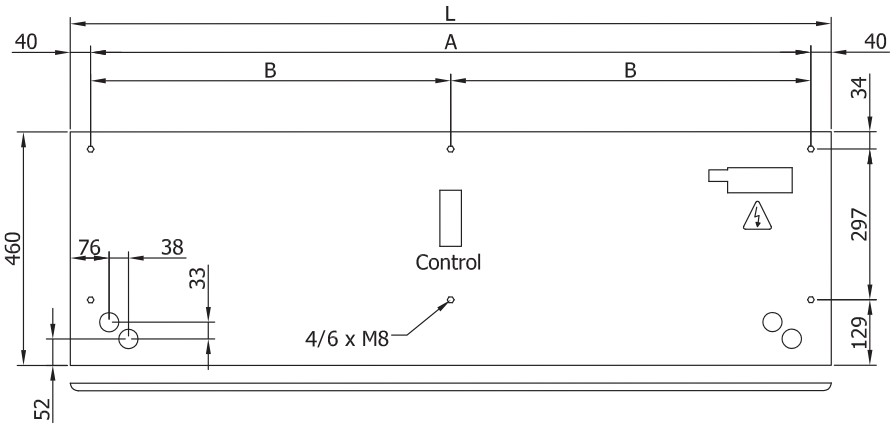
Water heated

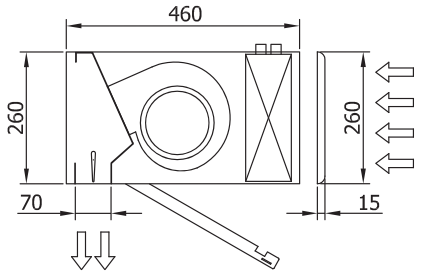
			P86		P64		P54				
Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	760	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	18.70	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	40.00	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	32.10	8410	34.03	7180	1.712 / 7.60	61	109
ECG 1000 P	4.2	2550	11.89	1400	11.27	7110	11.50	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

P86 - 2 rows coil, 2 x ¾" female connector. P64 - 3 rows coil, 2 x ¾" female connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to Amca 220-05

Layouts and dimensions

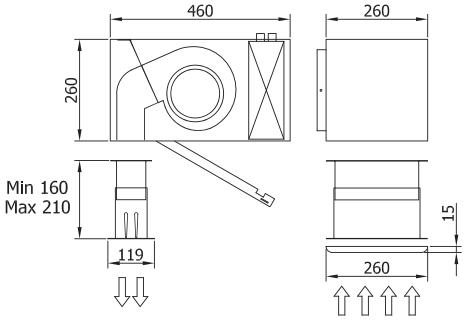
Free hanging mounting





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

Concealed mounting



SMART

Option available
(See page 42)

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

The smooth front panel cleverly hides the air intake grill 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.

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.5m
1.5m 3.0m
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
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 400Vx3-50Hz kW	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
SMART M 1000 E	3.5	1800	3/6/9	0.212 / 0.94	53	41
SMART M 1500 E	3.5	2700	4/8/12	0.318 / 1.41	54	62
SMART M 2000 E	3.5	3600	6/12/18	0.424 / 1.88	55	80
SMART M 2500 E	3.5	4500	6/12/18	0.530 / 2.35	56	86
SMART M 3000 E	3.5	5400	8/16/24	0.636 / 2.82	57	99
SMART ECM 1000 E	3.5	1840	3/6/9	0.132 / 1.14	54	41
SMART ECM 1500 E	3.5	2760	4/8/12	0.198 / 1.71	55	62
SMART ECM 2000 E	3.5	3680	6/12/18	0.264 / 2.28	56	80
SMART ECM 2500 E	3.5	4600	6/12/18	0.330 / 2.85	57	86
SMART ECM 3000 E	3.5	5520	8/16/24	0.396 / 3.42	58	99
SMART G 1000 E	3.8	2400	5/10/15	0.642 / 2.85	55	46
SMART G 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	56	68
SMART G 2000 E	3.8	4800	10/20/30	1.284 / 5.70	57	90
SMART G 2500 E	3.8	5600	10/20/30	1.498 / 6.65	58	96
SMART G 3000 E	3.8	6400	10/20/30	1.712 / 7.60	59	109
SMART ECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	59	46
SMART ECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	60	68
SMART ECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	61	90
SMART ECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	62	96
SMART ECG 3000 E	4.2	7200	10/20/30	0.600 / 5.20	63	109

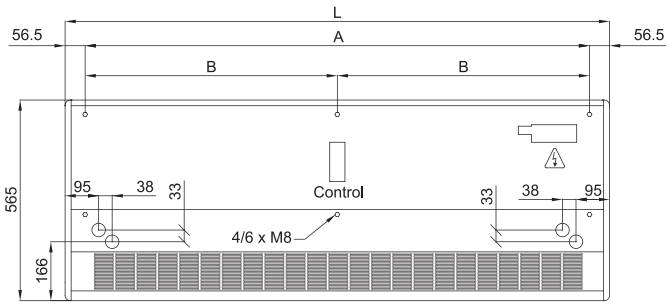
SMART

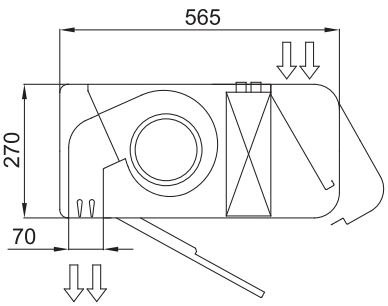
Water heated

			P86		P64		P54				
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	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	18.70	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	40.00	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	32.10	8410	34.03	7180	1.712 / 7.60	59	99
SMART ECG 1000 P	4.2	2550	11.89	1400	11.27	7110	11.50	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

P86 - 2 rows coil, 2 x ¾" female connector. P64 - 3 rows coil, 2 x ¾" female connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to Amca 220-05

Layout and dimensions





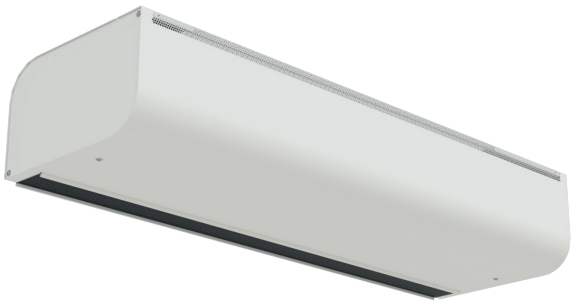
	L	I	A
Smart 1000	1034	920	-
Smart 1500	1534	1420	710
Smart 2000	2034	1920	960
Smart 2500	2534	2420	1210
Smart 3000	3034	2920	1460

Finishes and details

Smooth or customised front panel with logos, lighting or signage

Hidden top air entrance

ESSENSSE NEO



Option available

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.

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
2.8m

FAN OPTIONS
AC fan
EC fan

HEATING OPTIONS
Electric
LPHW

LENGTHS AVAILABLE
1.0m 1.5m
2.0m 2.5m

Electrically heated

Model	Max mounting height m	Airflow m³/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

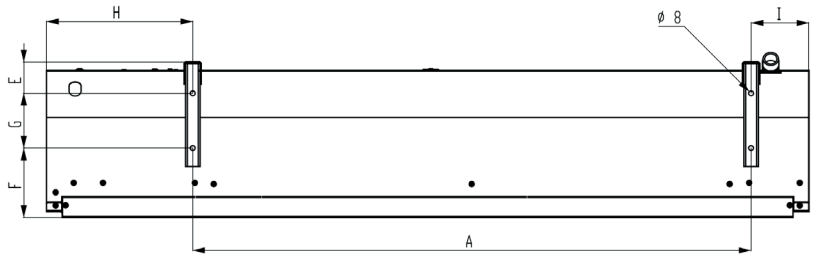
ESSENSSE NEO

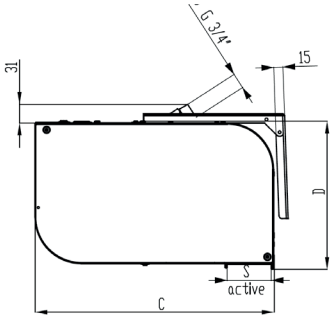
Water heated

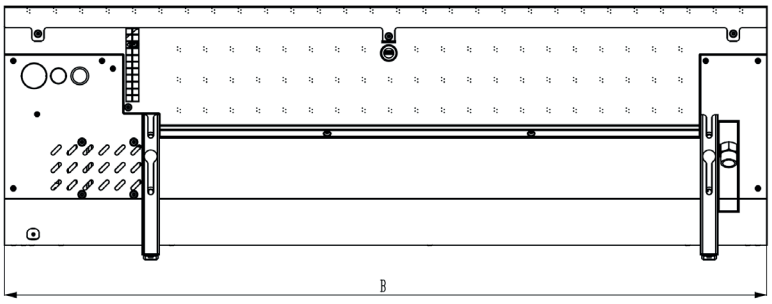
Model	Max mounting height m	Airflow m³/h*	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@3m) dB(A)	Weight kg
VCES4 B 100-V2AC	2.8	1300	13.2	10500	7.4	3800	0.14/0.6	47	25.6
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 stylish 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 medium sized premises such as shops, offices, restaurants and other public buildings.

A manual controller with 2 fan speed selections, 2 heater stages for electrically heated or 2 speed fan selection for LPHW and air only units, 7 metres of control cable and an IR hand held remote are included. (see page 40 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

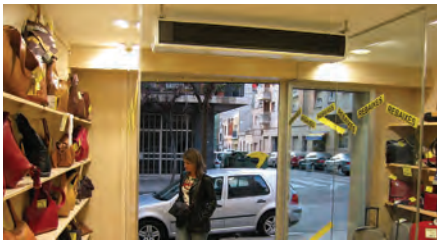
MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
2.2m - 2.8m

FAN OPTIONS
AC fan

HEATING OPTIONS
Electric
LPHW
Air only

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

Water heated

Model	Max mounting height m	Airflow m³/h	Heating capacity 80/60° 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

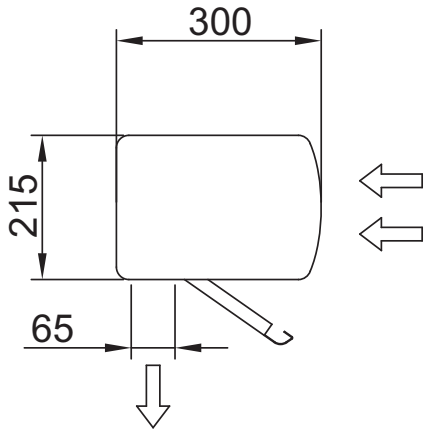
Electrically heated

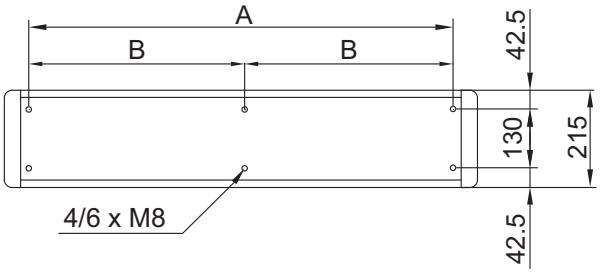
Model	Max mounting height m	*Airflow m³/h	Electrical Heating Capacity (*) kW	Electrical Heating Voltage V	Electrical Heating Current A	Power/current fans 230V-50Hz kW/A	Noise Level (@5m) dB(A)	Weight kg
OPT 1000 E400	2.8	1500	4/6	400Vx3	5.8/8.7	0.080 / 0.41	35/50	20.5
OPT 1000 E9	2.8	1500	6/9	400Vx3	8.7/13	0.080 / 0.41	35/50	21/5
OPT 1000 E230	2.8	1500	3.8/5.6	230Vx1	16.5/24.5	0.080 / 0.41	35/50	20.5
OPT 1500 E400	2.8	2150	6/9	400Vx3	8.7/13	0.117 / 0.53	36/51	27.5
OPT 1500 E230-6	2.8	2150	3.8/5.6	230Vx1	16.5/24.5	0.117 / 0.53	36/51	27.5
OPT 1500 E230-9	2.8	2150	6/9	230Vx1	26/39.1	0.117 / 0.53	36/51	27.5
OPT 2000 E400	2.8	2900	5.6/11.3	400Vx3	8.1/16.3	0.160 / 0.82	38/53	42
OPT 2000 E230	2.8	2900	5.6/11.3	230Vx1	24.5/49.1	0.160 / 0.82	38/53	42

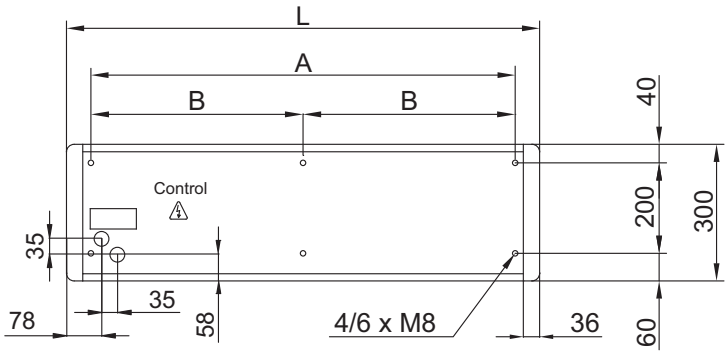
Water heated: connection pipes 1/2" female. 2 rows coil. *tested to Amca 220-05

MINI OPTIMA

Layouts and dimensions







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

STANDESSE

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

The 2 in 1 face filter acts as a suction grille and filter preventing particles from entering the air curtain, removing the need to have a separate internal filter. The grille can be easily brushed or vacuumed.

The Comfort controller is supplied as standard, which manually adjusts the air curtain's performance efficiently to any application. Option to upgrade to the advanced Superior controller offering automatic control.

The Standesse is suitable for medium to large premises with a high pedestrian flow.

Option available
(See page 42)

COLOURS AVAILABLE
White RAL9010 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
4.0m

FAN OPTIONS
AC fan

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.0m
1.5m 2.5m

Electrically heated

Model	Max mounting height m	*Airflow m³/h	Electrical heating capacity 400Vx3-50Hz kW	Power/current fans kW/A	Noise level (3 m) dB(A)	Weight kg
VCS4B-100-E	3.5	1589	9.5	0.63 / 2.85	56	46
VCS4B-150-E	3.5	2476	15	1 /4,4	58.7	63
VCS4B-200-E	3.5	3362	19	1.3 / 5.7	59.7	81
VCS4B-250-E	3.5	3991	24.5	1.6 / 7	60.8	99
VCS4C-100-E	4	2262	9.5	0.95 / 4	59.6	53
VCS4C-150-E	4	3272	15	1.35 / 5.60	60	68
VCS4C-200-E	4	4080	19	1.7 / 7	60.3	86
VCS4C-250-E	4	4888	24.5	2 / 8.7	61.1	110

*tested to ISO 27327-1

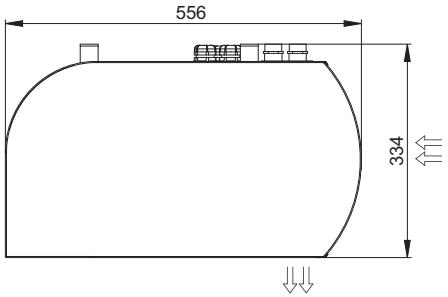
STANDESSE

Water heated

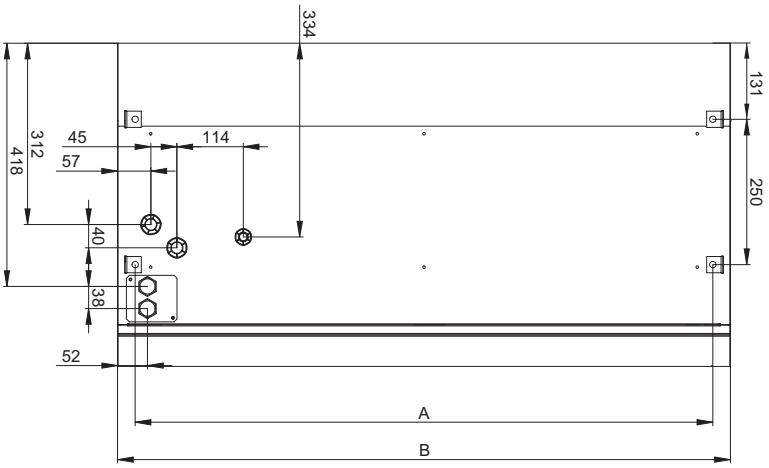
			P86		P64				
Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (3 m) dB(A)	Weight kg
VCS4B-10V-	3.5	1552	13.97	3040	8.21	1330	0.65 / 2.85	55.8	48
VCS4B-15V-	3.5	2439	31.72	4580	18.72	2570	1 /4,4	57.6	65
VCS4B-20V-	3.5	3252	43.52	7930	25.83	3490	1.3 / 5.7	59.3	83
VCS4B-25V-	3.5	3880	54.13	12960	32.13	5470	1.6 / 7	60.6	97
VCS4C-10V-	4	2222	17.09	4240	10	1790	0.95 / 4	59.1	55
VCS4C-15V-	4	3151	36.12	5310	21.23	2940	1.35 / 5.60	59.7	70
VCS4C-20V-	4	3878	46.42	8820	27.48	3830	1.7 / 7	60.2	88
VCS4C-25V-	4	4808	59.54	15260	35.22	6340	2 / 8.7	60.7	108

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



RECESSED OPTIMA

The Optima Recessed air curtain is an economic solution for suspended ceiling systems.

The casing construction is made from galvanised plated steel and is ready to be recessed in a false ceiling. 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 and medium sized commercial sites. Using air curtains in these types of sites makes internal temperature control more practical, as heat loss through these often wide doors is significantly reduced.

A manual controller with 2 fan speed selections, 2 heater stages for electrically heated units or 2 fan speed selection for LPHW and air only units, 7 metres of control cable and an IR handheld remote are included. (see page 40 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

CEILING MAX HEIGHT
2.8m

FAN OPTIONS
AC fan

HEATING OPTIONS
Electric
LPHW
Air only

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
RO 1000 A	2.8	1700	0.080 / 0.41	35/50	24
RO 1500 A	2.8	2200	0.117 / 0.53	36/51	34
RO 2000 A	2.8	3200	0.160 / 0.82	38/53	44.5

Water heated

Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C k/W	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

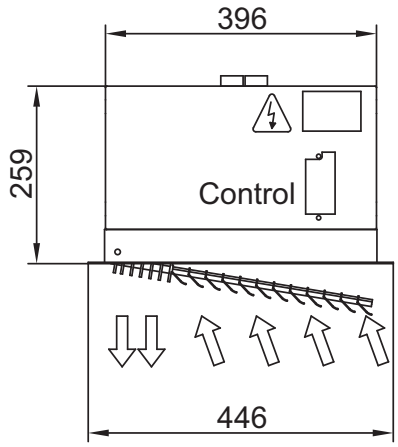
Electrically heated

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	4/6	400Vx3	5.8/8.7	0.080 / 0.41	35/50	26
RO 1000 E9	2.8	1700	6/9	400Vx3	8.7/13	0.080 / 0.41	35/50	27
RO 1000 E230	2.8	1700	3.8/5.6	230Vx1	16.5/24.5	0.080 / 0.41	35/50	26
RO 1500 E400	2.8	2200	6/9	400Vx3	8.7/13	0.117 / 0.53	36/51	37.5
RO 1500 E230-6	2.8	2200	3.8/5.6	230Vx1	16.5/24.5	0.117 / 0.53	36/51	37.5
RO 1500 E230-9	2.8	2200	6/9	230Vx1	26/39.1	0.117 / 0.53	36/51	37.5
RO 2000 E400	2.8	3200	5.6/11.3	400Vx3	8.1/16.3	0.160 / 0.82	38/53	53.5
RO 2000 E230	2.8	3200	5.6/11.3	230Vx1	24.5/49.1	0.160 / 0.82	38/53	53.5

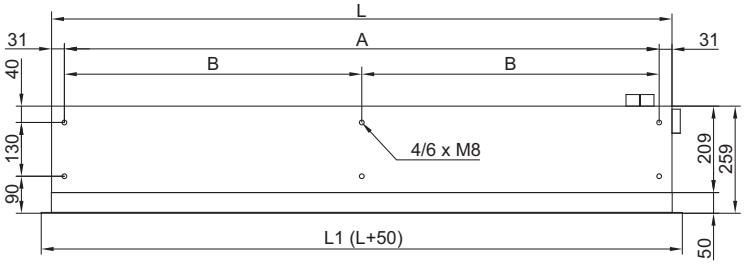
Water heated: connection pipes 1/2" female. 2 rows coil. *tested to Amca 220-05

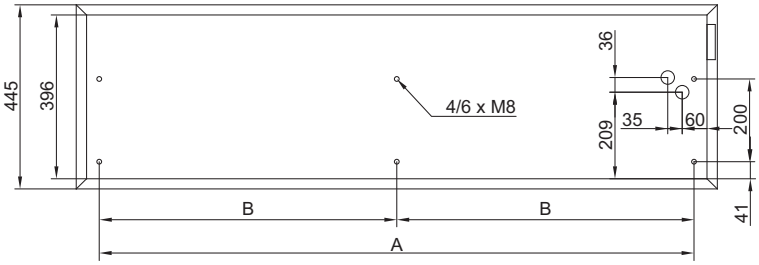
RECESSED OPTIMA

Layout and dimensions



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





FINESSE

Option available
(See page 42)

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.

The standard Comfort controller is supplied as standard, which manually adjusts the air curtain's performance efficiently to any application. Option to upgrade to the advanced Superior controller offering automatic control.

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.

COLOURS AVAILABLE
White RAL9010 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

CEILING MAX HEIGHT
4.0m

FAN OPTIONS
AC fan
EC fan (option)

HEATING OPTIONS
Electric
LPHW

LENGTHS AVAILABLE
1.0m 2.0m
1.5m 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
VCF-B-100-E	4	1778	9.4	0.6 / 2.75	57.9	39.5
VCF-B-150-E	4	2552	15	0.9 / 4	60.2	54.5
VCF-B-200-E	4	3444	19	1.2 / 5.3	61.2	71
VCF-B-250-E	4	4187	24.5	1.5 / 6.5	62.8	85
VCFI4B100-E1EC	4	1810	9.4	0,65 / 2,8	58.8	35.5
VCFI4B150-E1EC	4	2710	15	1 / 4,2	60.8	48.5
VCFI4B200-E1EC	4	3620	19	1.3 / 5.6	62.2	63
VCFI4B250-E1EC	4	4520	24.5	1.65 / 7	63.4	75
VCF-C-100-E	5	2467	9.4	1.15 / 4.8	61.2	44
VCF-C-150-E	5	3401	15	1.45 / 6.3	62.7	60
VCF-C-200-E	5	4318	19	1.85 / 7.9	64	75.5
VCF-C-250-E	5	5018	24.5	2.25 / 9.7	65.8	90

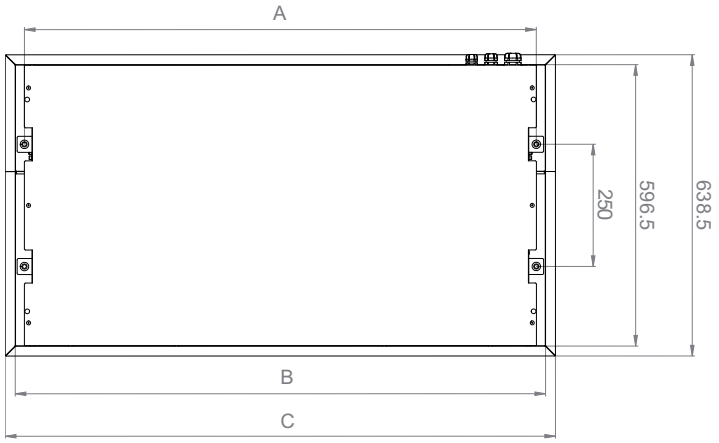
*tested to ISO 27327-1

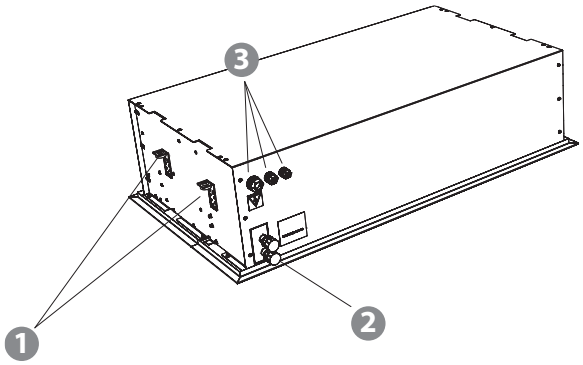
Water heated

			P86		P64				
Model	Max mounting height m	*Airflow m^3/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
VCF-B-100-V	4	1691	20.2	8640	11.8	4130	0.6 / 2.75	57.5	54.5
VCF-B-150-V	4	2449	31.7	2038	18.5	8770	0.9 / 4	59.6	71
VCF-B-200-V	4	3381	43.1	1735	25.2	8020	1.2 / 5.3	61	73
VCF-B-250-V	4	4061	51	1315	29.8	6560	1.5 / 6.5	62.5	87
VCFI4B100-V2EC	4	1691	15.92	5590	11.8	4130	0.65 / 2.8	57.5	37
VCFI4B150-V2EC	4	2249	24.92	15890	18.5	8770	Jan-42	59.3	50
VCFI4B200-V2EC	4	3381	33.08	13930	25.2	8020	1.3 / 5.6	60.5	65
VCFI4B250-V2EC	4	4061	40.53	14520	29.8	6560	1.65 / 7	61.8	77
VCF-C-100-V	5	2334	23.8	1075	13.9	5440	1.15 / 4.8	61.2	45.5
VCF-C-150-V	5	3251	36.5	2474	21.4	1071	1.45 / 6.3	62.5	61
VCF-C-200-V	5	4226	46.7	1943	27.2	8860	1.85 / 7.9	63.7	77
VCF-C-250-V	5	4885	51	1428	29.8	6600	2.25 / 9.7	65.6	91.5

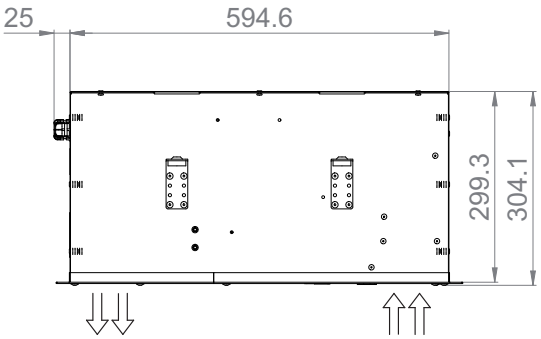
*tested to ISO 27327-1

Layout 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

Option available
(See page 42)

This attractive air curtain is for use in suspended ceilings 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 casing is constructed from zinc plated steel, ready to be installed into a false ceiling. The inlet 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.

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal

CEILING MAX HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.0m
1.5m 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

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
RM 1000 E	3.5	1800	3/6/9	0.212 / 0.94	55	65
RM 1500 E	3.5	2700	4/8/12	0.318 / 1.41	56	98
RM 2000 E	3.5	3600	6/12/18	0.424 / 1.88	57	130
RM 2500 E	3.5	4500	6/12/18	0.530 / 2.35	58	162
RECM 1000 E	3.5	1840	3/6/9	0.132 / 1.14	56	65
RECM 1500 E	3.5	2760	4/8/12	0.198 / 1.71	57	98
RECM 2000 E	3.5	3680	6/12/18	0.264 / 2.28	58	130
RECM 2500 E	3.5	4600	6/12/18	0.330 / 2.85	59	162
RG 1000 E	3.8	2400	5/10/15	0.642 / 2.85	57	70
RG 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	104
RG 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	140
RG 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	172
RECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	61	70
RECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	104
RECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	140
RECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	172

*tested to AMCA 220-05

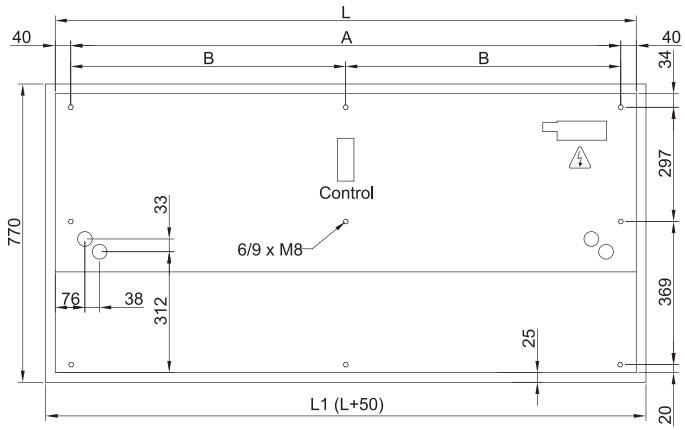
RECESSED WINDBOX

Water heated

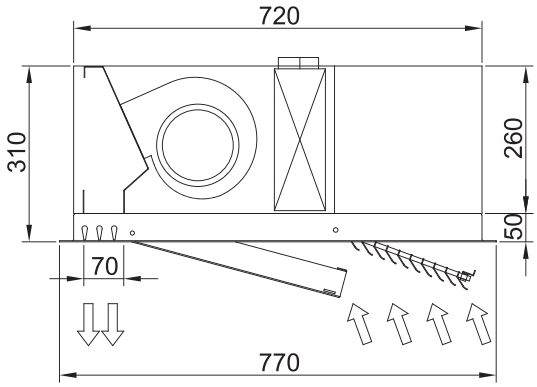
			P86		P64		P54				
Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	18.70	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	11.50	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

P86 - 2 rows coil, 2 x ¾" female connector. P64 - 3 rows coil, 2 x ¾" female connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to AMCA 220-05

Layout 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

Option available
(See page 42)

The Invisair air curtain has been designed for applications where the body of the unit is to be concealed inside a column or bulkhead for architectural reasons.

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.

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.

A standard manual controller and 7 metres of control cable are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal
Vertical

CEILING MAX HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
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
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
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
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

*tested to AMCA 220-05

Electrically heated

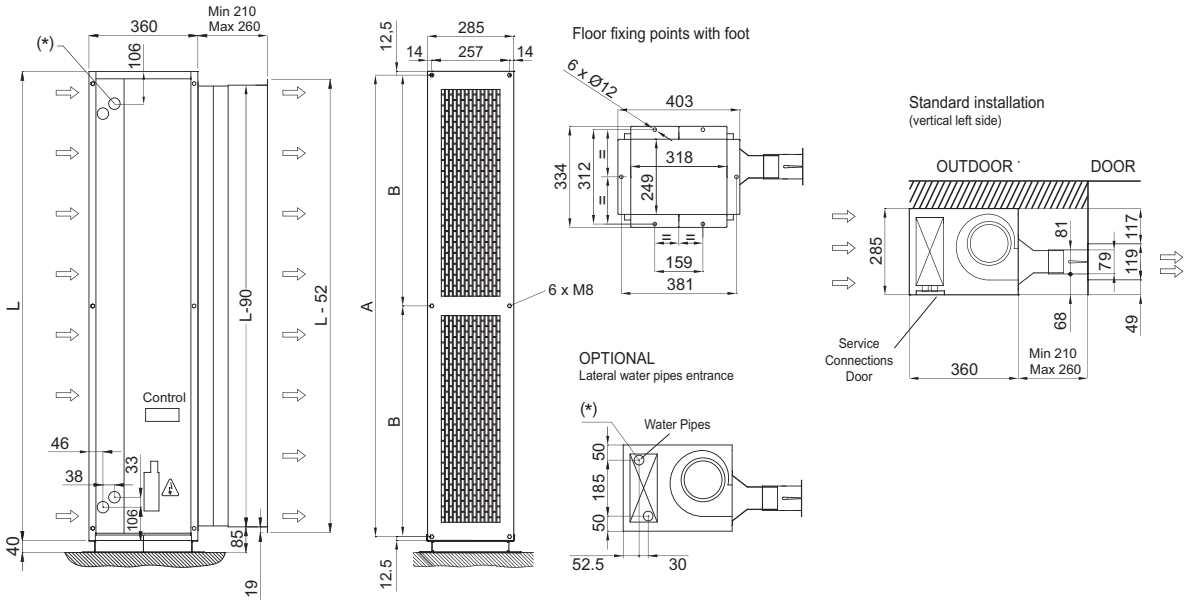
Model	Max mounting height m	*Airflow m³/h	Electrical heating capacity 400Vx3-50Hz kW	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
IM 1500 E	3.5	2640	4/8/12	0.424 / 1.88	56	67
IM 2000 E	3.5	3960	6/12/18	0.636 / 2.82	57	86
IM 2500 E	3.5	4620	6/12/18	0.742 / 3.29	58	93
IG 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	73
IG 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	96
IG 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	103
IECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	73
IECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	96
IECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	103

Water heated

			P86		P64		P54				
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	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
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	19.70	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
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
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

P86 - 2 rows coil, 2 x ¾" female connector. P64 - 3 rows coil, 2 x ¾" female connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to AMCA 220-05

Layout and dimensions

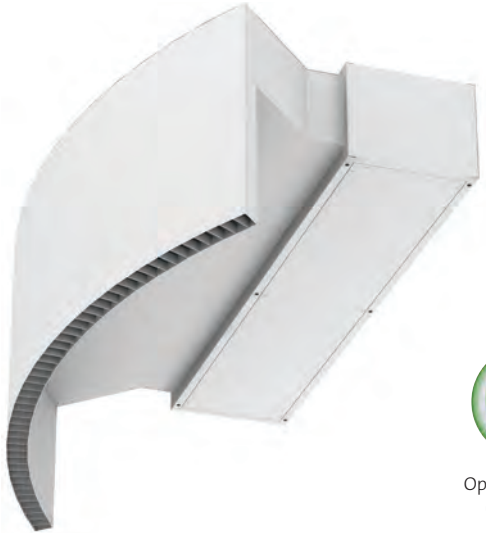


(*) IN/OUT Water pipes connection (in water heated units)

Installation examples

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

ROTOWIND



Option available
(See page 42)

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

Two types of tailor-made models are available. 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.

It 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.

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour
Brushed stainless steel

MOUNTING OPTIONS
Horizontal

MAX DOOR HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.0m
1.5m 2.5m

Electrically heated

Model	Max mounting height m	*Airflow m^3/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	5/10/15	0.642 / 2.85	57	-
ROTO G 1500 E	3.8	3200	7.5/15/22.5	0.856 / 3.80	58	-
ROTO G 2000 E	3.8	4800	10/20/30	1.284 / 5.70	59	-
ROTO G 2500 E	3.8	5600	10/20/30	1.498 / 6.65	60	-
ROTO ECG 1000 E	4.2	2700	5/10/15	0.225 / 1.95	61	-
ROTO ECG 1500 E	4.2	3600	7.5/15/22.5	0.300 / 2.60	62	-
ROTO ECG 2000 E	4.2	5400	10/20/30	0.450 / 3.90	63	-
ROTO ECG 2500 E	4.2	6300	10/20/30	0.525 / 4.55	64	-

*tested to AMCA 220-05

ROTOWIND

Water heated

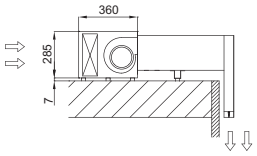
			P86		P64		P54				
Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	11.50	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	-

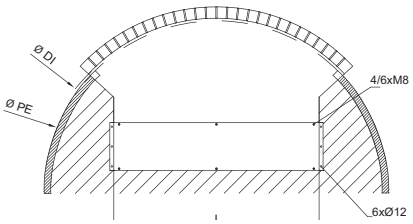
P86 - 2 rows coil, 2 x ¾" female connector. P64 - 3 rows coil, 2 x ¾" female connector. P54 - 4 rows coil, 2 x 1" male connector. *tested to AMCA 220-05

Layouts and dimensions

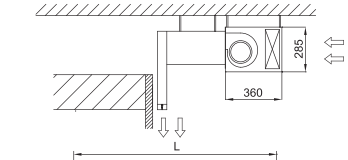
Rotowind air curtains are tailor-made for any kind of revolving door.

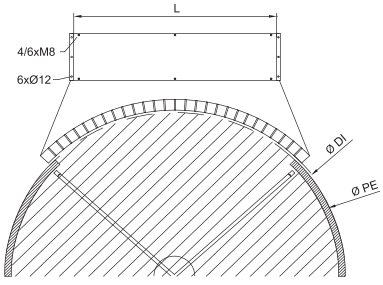
Top of door mounting





False ceiling mounting



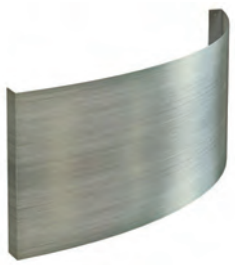


Fixation system

Fixed onto the door

Hanging from ceiling mounting

Fascia cover options



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

MAX

The Max air curtain is a great alternative to fast-acting roller doors and PVC slat curtains. They are situated above or to the side of industrial doorways creating a powerful seal across the opening keeping heat in whilst providing total visibility and access.

Heavy casing made of double chamber aluminium profiles and galvanised steel panels provide a durable exterior. Its double outlet, with "Coanda" effect, aerofoil shaped vanes help increase air velocity and are adjustable from 0 to 15° each side.

Low noise axial fans driven by an external rotor motor with built-in thermal protection provide up to 19,800m³ air flow per hour.

A standard manual controller, 10 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)

MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
6m

FAN OPTIONS
AC fan (standard)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.2m 3.0m
1.8m 3.5m
2.4m

Air only

Model	Max mounting height m	Airflow m³/h	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
MAX 2 A	6	6600	0.68 / 2.96	62	59
MAX 3 A	6	9900	1.02 / 4.44	63	79
MAX 4 A	6	13200	1.36 / 5.92	64	103
MAX 5 A	6	16500	1.70 / 7.40	65	124
MAX 6 A	6	19800	2.04 / 8.88	66	151

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
MAX 2 E	6	6600	15/25/40	0.68 / 2.96	62	74
MAX 3 E	6	9900	22,5/37,5/60*	1.02 / 4.44	63	100
MAX 4 E	6	13200	30/50/80**	1.36 / 5.92	64	133
MAX 5 E	6	16500	30/60/90**	1.70 / 7.40	65	159
MAX 6 E	6	19800	30/60/90**	2.04 / 8.88	66	186

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

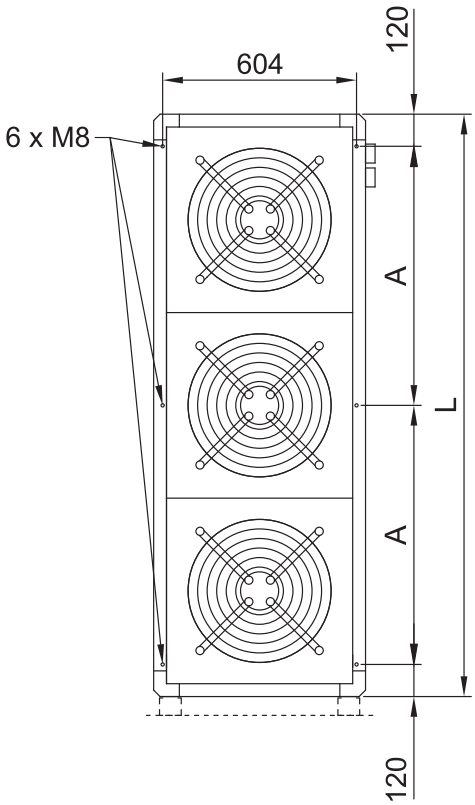
Water heated

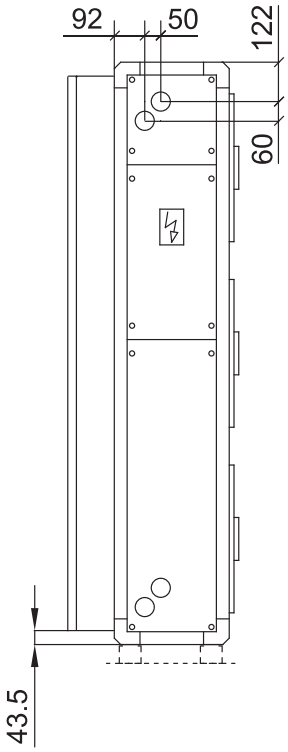
			P86		P64		*P54				
Model	Max mounting height m	Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
MAX 2 P	6	6400	28.74	350	29.71	8690	-	-	0.68 / 2.96	61	75
MAX 3 P	6	9600	51.77	1440	47.10	11930	-	-	1.02 / 4.44	62	102
MAX 4 P	6	12800	74.15	2580	63.30	9340	-	-	1.36 / 5.92	63	135
MAX 5 P	6	16000	96.43	7070	82.16	18450	-	-	1.70 / 7.40	64	162
MAX 6 P	6	19200	118.69	12160	91.92	3770	-	-	2.04 / 8.88	65	189

Pipe connections: 2 x 1¼".
*P54 available to special order *Tested to Amca 220-05

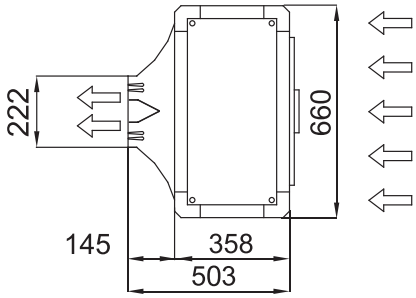
MAX

Layout and dimensions





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



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.

A standard manual controller and 10 metres of control cable are included. Other control options available include the Clever controller or the BMS interface (see page 40 - 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

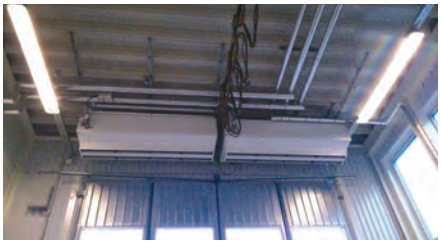
MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
6m

FAN OPTIONS
AC fan (standard)

HEATING OPTIONS
LPHW
Air only

LENGTHS AVAILABLE
1.5m 3.0m
2.0m 3.5m
2.5m



Air Only

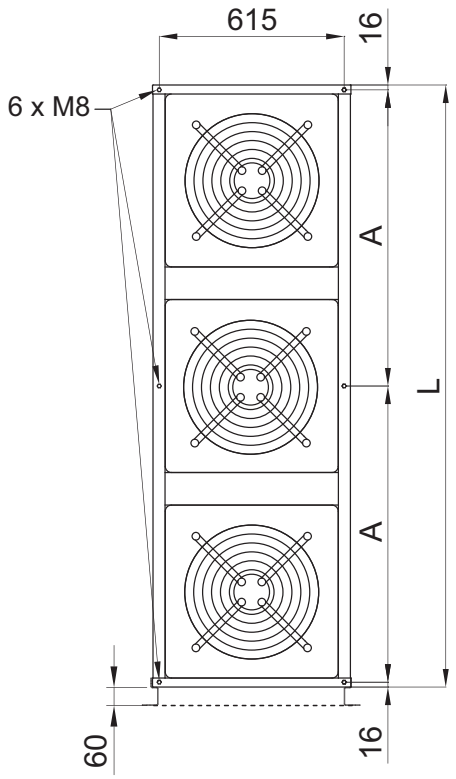
Model	Max mounting height m	*Airflow m³/h	Power/current fans 230V-50Hz kW/A	Noise Level (@5m) dB(A)	Weight kg
MXW 1500 A	6	7000	0.68 / 2.96	60	79
MXW 2000 A	6	10500	1.02 / 4.44	61	103
MXW 2500 A	6	14000	1.36 / 5.92	62	126
MXW 3000 A	6	17500	1.70 / 7.40	63	150
MXW 3500 A	6	20800	2.04 / 8.88	64	173

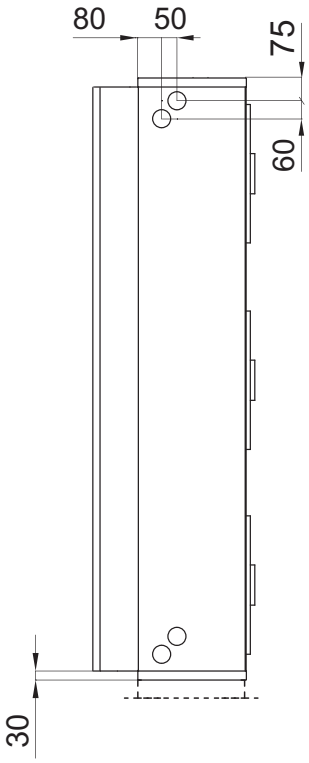
Water heated

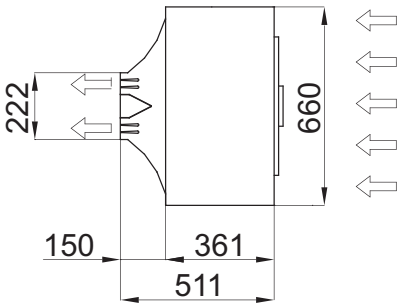
			P86		P64		**P54				
Model	Max mounting height m	*Airflow m³/h	Water heating capacity 80/60°C kW	Water drop pressure 80/60°C Pa	Water heating capacity 60/40°C kW	Water drop pressure 60/40°C Pa	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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

P86 - 2 rows coil, 2 x 1¼” connector. P64 - 3 rows coil, 2 x 1¼” connector.
*tested to AMCA 220-05. ** Available to special order.

Layout and dimensions







	L	A	B
MXW 1500	1500	734	-
MXW 2000	200	984	-
MXW 2500	2500	1234	-
MXW 3000	3040	-	1002.5
MXW 3500	3620	-	1196

VCP

Option available
(See page 42)

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

They 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 on 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.

A standard manual controller with five-speed selections is included. (see page 40 for further details).

COLOURS AVAILABLE
White RAL9010 (standard)
Galvanised (standard)

MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
8m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.65m
2.20m
2.75m

Air only / EC fans

Model	Max mounting height m	*Airflow m³/h	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
VCIN2A150-S0AC	8	11550	0.85 / 3.9	63	51
VCIN2A200-S0AC	8	15100	1.1 / 5.1	64.9	69
VCIN2A250-S0AC	8	18500	1.4 / 6.5	66.7	83
VCIN2A150-S0EC	8	11400	1 / 6,5	63.1	51
VCIN2A200-S0EC	8	15200	1,4 / 8,7	64.9	69
VCIN2A250-S0EC	8	19000	1,7/10,8	66.8	83

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
VCIN2A150-E1AC	8	11550	24.3	0.85 / 3.9	63	55
VCIN2A200-E1AC	8	15100	32.4	1.1 / 5.1	64.9	74
VCIN2A250-E1AC	8	18500	40.5	1.4 / 6.5	66.7	89
VCIN2A150-E1EC	8	11400	24.3	1 / 6,5	63	55
VCIN2A200-E1EC	8	15200	32.4	1,4 / 8,7	64.9	74
VCIN2A250-E1EC	8	19000	40.5	1,7/10,8	66.8	89

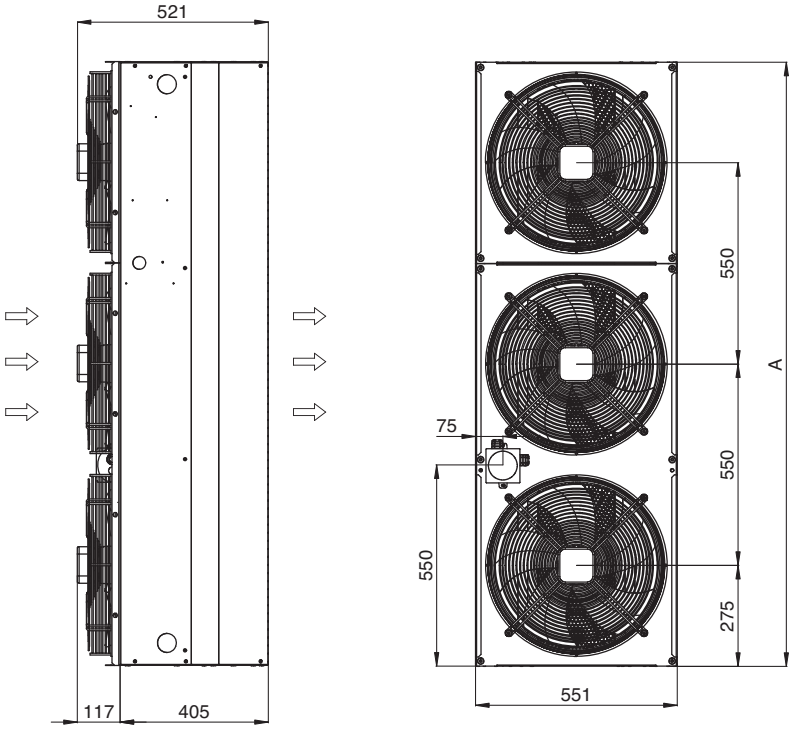
*tested to ISO 27327-1

Water heated / EC fans

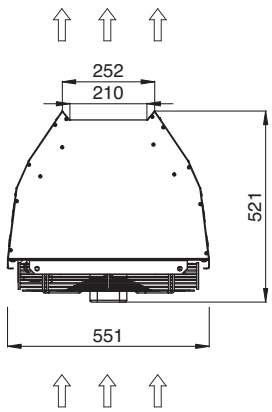
			P86		P64				
Model	Max mounting height m	*Airflow m^3/h	Water heating capacity 80/60ºC kW	Water drop pressure 80/60ºC Pa	Water heating capacity 60/40ºC kW	Water drop pressure 60/40ºC Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) dB(A)	Weight kg
VCIN2A150-V2AC	8	10300	62.9	18000	37.6	8000	0.85 / 3.9	63.1	60
VCIN2A200-V2AC	8	13700	84.6	14000	50.2	7000	1.1 / 5.1	64	78
VCIN2A250-V2AC	8	17000	106	16000	62.7	5000	1.4 / 6.5	65.5	98
VCIN2A150-V2EC	8	10500	63.6	1800	37.9	8000	1 / 6,5	63.2	60
VCIN2A200-V2EC	8	14000	85.5	14000	50.8	7000	1,4 / 8,7	64.1	78
VCIN2A250-V2EC	8	17500	108	11000	63.8	5000	1,7/10,8	65.6	98

2 x 1" BSP pipe connections.

Layouts and dimensions



VCIN2	A
150	1650
200	2200
250	2750



INDUSTRIAL WINDBOX

This industrial air curtain has very powerful air and heating outputs, making it suitable for use on warehouse and despatch area entrances up to 8 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.

A standard manual controller, 10 metres of control cable and an IR handheld remote are included. Other control options available include the Clever controller or the BMS interface (See pages 40 & 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour

MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
8.0m

FAN OPTIONS
AC fan (standard)

HEATING OPTIONS
Electric
LPHW
Air only

LENGTHS AVAILABLE
1.0m 2.5m
1.5m 3.0m
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
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	8	5300	1.40 / 6	65	78
XL 1500 A	8	7950	2.10 / 9	66	117
XL 2000 A	8	10600	2.80 / 12	67	157
XL 2500 A	8	13250	3.50 / 15	68	192
XL 3000 A	8	15900	4.20 / 18	69	211

*tested to AMCA 220-05

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
L 1000 E	5	4000	6/13/19	1.04 / 4.40	63	90
L 1000 E25	5	4000	10/15/25	1.04 / 4.40	63	90
L 1500 E	5	6000	8/22.5/30.5	1.56 / 6.60	64	135
L 1500 E37.5	5	6000	15/22.5/37.5	1.56 / 6.60	64	135
L 2000 E	5	8000	12/30/42 *	2.08 / 8.80	65	180
L 2000 E50	5	8000	20/30/50 *	2.08 / 8.80	65	180
L 2500 E	5	10000	20/30/50 *	2.60 / 11.00	66	225
L 2500 E60	5	10000	20/40/60 *	2.60 / 11.00	66	225
L 3000 E	5	12000	20/40/60 *	3.12 / 13.20	67	270
L 3000 E70	5	12000	20/50/70 *	3.12 / 13.20	67	270
XL 1000 E	8	5300	10/15/25	1.40 / 6.00	65	95
XL 1000 E.35	8	5300	10/25/35	1.40 / 6.00	65	96
XL 1500 E	8	7950	15/22.5/37.5	2.10 / 9.00	66	144
XL 1500 E52	8	7950	15/37.5/52.5 *	2. 0 / 9.00	66	150
XL 2000 E	8	10600	20/30/50 *	2.80 / 12.00	67	192
XL 2000 E70	8	10600	20/50/70 *	2.80 / 12.00	67	200
XL 2500 E	8	13250	20/40/60 *	3.50 / 15.00	68	240
XL 2500 E70	8	13250	20/50/70 *	3.50 / 15.00	68	250
XL 3000 E	8	15900	20/50/70 *	4.20 / 18.00	69	288
XL 3000 E80	8	15900	30/50/80 **	4.20 / 18.00	69	300

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

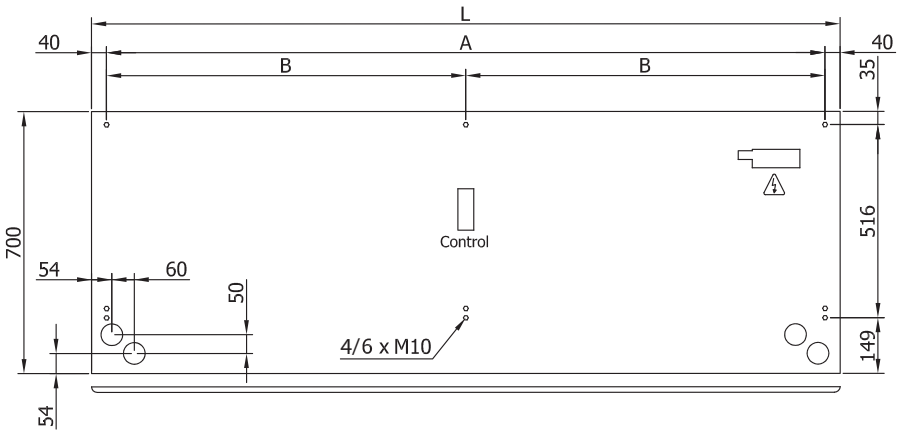
INDUSTRIAL WINDBOX

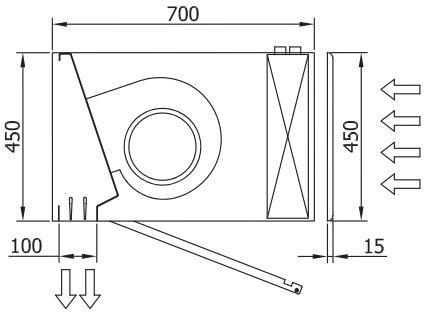
Water heated

			P86		P64		**P54				
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	Water heating capacity 50/40°C kW	Water drop pressure 50/40°C Pa	Power/current fans 230V-50Hz kW/A	Noise level (@5m) 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	8	4900	22.68	2250	18.98	3410	20.43	2120	1.40 / 6	64	94
XL 1500 P	8	7350	34.52	1240	30.45	4270	34.55	7780	2.10 / 9	65	137
XL 2000 P	8	9800	50.10	3140	41.83	4910	46.36	5910	2.80 / 12	66	183
XL 2500 P	8	12250	65.29	6130	53.56	6330	58.81	6810	3.50 / 15	67	227
XL 3000 P	8	14700	80.79	10640	66.78	11140	71.47	7890	4.20 / 18	68	278

Water heated: P86 2 row coil, P64 3 row coil, 1000, 1500 units 2 x 1" connections, 2000, 2500 units 2 x 1¼" connections, 3000 units 2 x 1½" connections.
*tested to MACA 220-05. ** Available to special order.

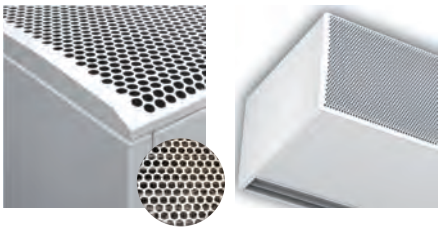
Layouts and dimensions



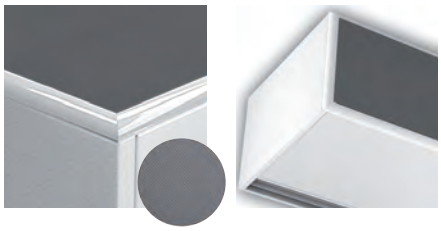


L	A	B
1000	920	-
1500	1420	710
2000	1920	960
2500	2420	1210
3000	2920	1460

Grille finishes



Industrial



Decorative

KOOL (for cold stores)

Option available
(see page 42)

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.

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

A standard manual controller, 7 metres of control cable and an IR handheld remote are included. IP55 options available. (See pages 40 & 41 for further details).

COLOURS AVAILABLE
White RAL9016 (standard)
Any RAL colour
Brushed stainless steel

MOUNTING OPTIONS
Horizontal
Vertical

MAX DOOR HEIGHT
4.2m

FAN OPTIONS
AC fan (standard)
EC fan (option)

HEATING OPTIONS
Air only

LENGTHS AVAILABLE
1.0m 2.5m
1.5m 3.0m
2.0m

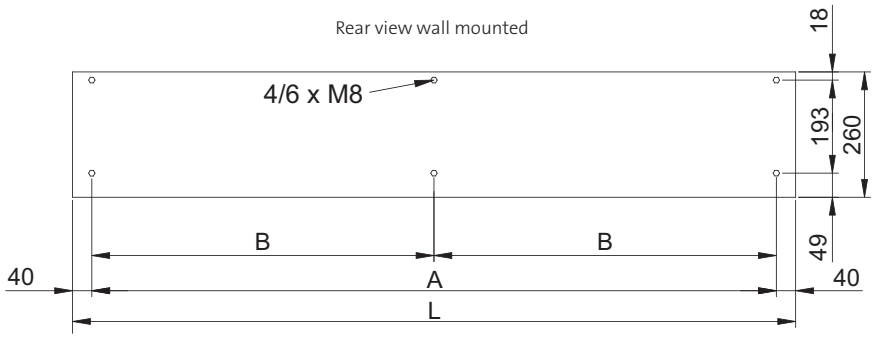
Air only

Model	Max mounting height m	Airflow m^3/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

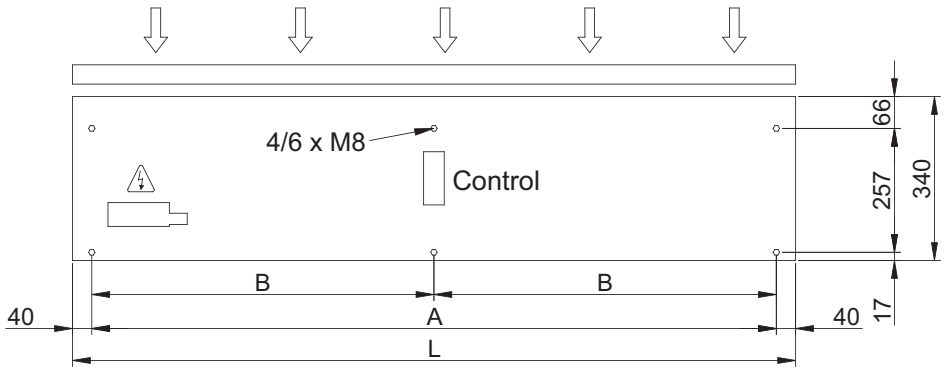
KOOL (for cold stores)

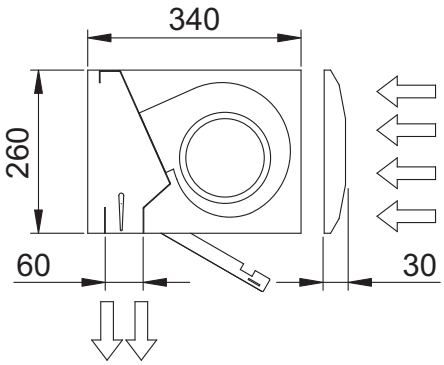
Layouts and dimensions

Rear view wall mounted



Top view ceiling mounted





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

AIR CURTAIN CONTROLLERS

This controller is suitable for the Industrial Windbox, Invisair, Kool, Max, Maxwell, Recessed Windbox, Rotowind, Rund, Smart, Windbox and Zen air curtains.

(Air only controller pictured)

Standard manual controller

Designed for easy, quick Plug and Play connection by using a telephone cable with RJ45 connectors. Reliable connection between the control panel and the air curtain so that no information is lost, even at long distances.

Features

- BMS enable/disable
- 5 fan speeds
- 3 heating stages for electrically heated units
- Hand held infra red remote included
- Switching of optional electro valve for LPHW heated units
- 7 metres of control cable included
- Up to 12 units can be connected to one controller

Options

- Can be used in conjunction with BMS interface

This controller is suitable for the Mini Optima and Recessed Optima air curtains.

(Air only controller pictured)

Standard manual controller

Designed for easy, quick Plug and Play connection by using a telephone cable with RJ45 connectors. Reliable connection between the control panel and the air curtain so that no information is lost, even at long distances.

Features

- 2 fan speeds
- 2 heating stages for electrically heated units
- Switching of optional electro valve for LPHW heated units
- Hand held infra red remote included
- 7 metres of control cable included

These controllers are suitable for the Essensse Neo, Finesse and Standesse air curtains.

Standard 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
- Error indication contact
- Available as master and slave variants controlling up to 10 unit
- BMS connectivity - Modbus RTUs

Options

- Door contact
- Room thermostat
- External 3 port on/off value

Advanced 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 VCP industrial air curtain

Standard IC-C controller

Manual touch screen controller for electrical heated units.

Features

- 5 fan speeds
- Integrated timer
- Room thermostat
- Antifreeze protection
- BMS connectivity - Modbus RTUs

Options

- Door contact

AIR CURTAIN CONTROLLERS

These optional controllers are suitable for the Industrial Windbox, Invisair, Kool, Max, Maxwell, Recessed Windbox, Rotowind, Rund, Smart, Windbox and Zen air curtains.

BMS interface

Allows the connection to a centralised building management system using volt free contacts.

Features

- Fan speeds selection
- Electrical heating stages selection
- Operate optional electro valve
- Can be used with the standard manual controller or alone
- Up to 12 units can be connected to one controller

Digital thermostat

Modifies heat stages and fan speed depending on temperature and selected programme on electrically heated units.

Features

- Offers manual or automatic mode
- Programmable door delay

Options

- Door contact

Hand auto

Manual and automatic operating for water heated units.

Features

- Offers manual or automatic mode
- Programmable door delay

Options

- Anti freezing sensor
- Door contact (recommended)
- Room thermostat

Clever controller

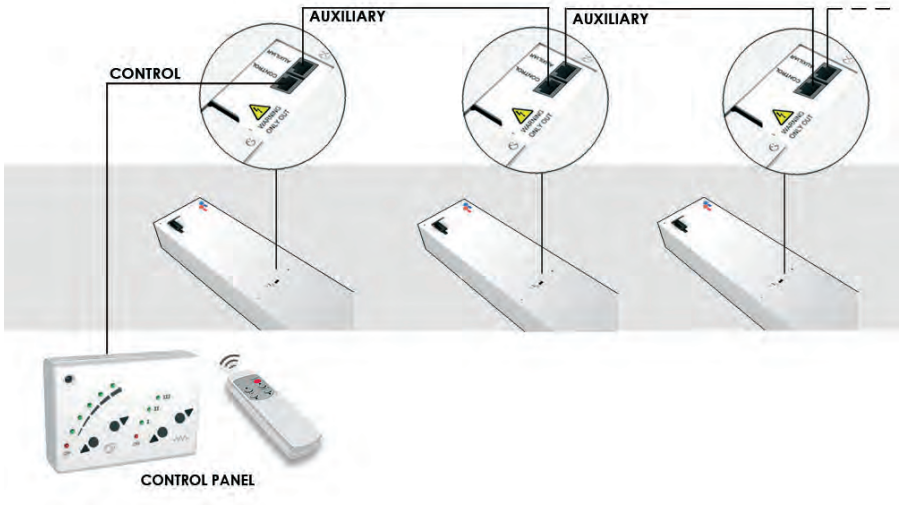
Wall mounted controller with colour TFT screen and temperature sensor which automatically adapts the function of the air curtain to the entrance conditions, maintaining comfort while saving energy.

Features

- BMS integration using Modbus RTU protocol
- Built in timer / calendar with filter cleaning alarm
- User friendly automatic control with manual override function included
- Door contact included
- 7 metres of control cable included
- Up to 12 units can be connected to one controller

Multiple air curtain connection

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



EC AIR CURTAINS

Energy efficient 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.

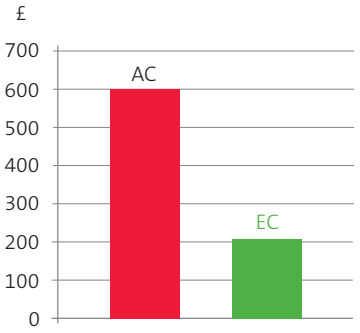
EC vs AC air curtain - energy saving example

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

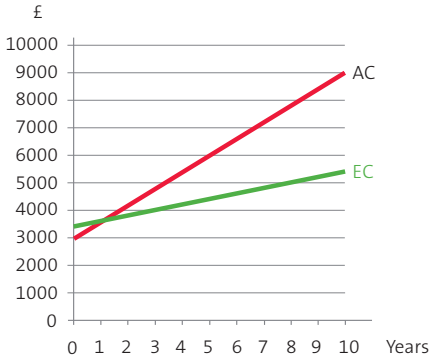
Example:

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

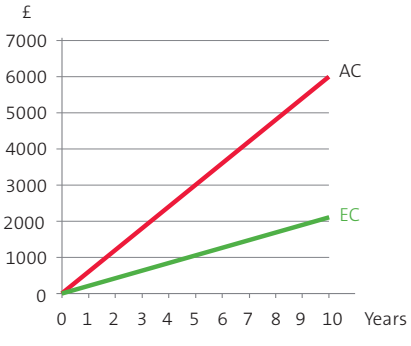
	AC air curtain	EC air curtain	Difference
Total fans power	1.284 kW	0.450 kW	-0.834
Air curtain price	£4,014	£4,317	£303.00
Total fan energy consumption	4006 kW/hr	1404 kW/hr	-2602
Energy cost	£601	£211	-£390.00
CO_2 emmissions	2111 kg	740 kg	-1371



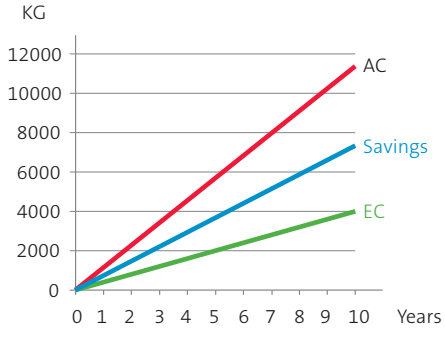
1 year energy cost



Payback period



10 years energy cost



10 years CO_2 emisions

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.

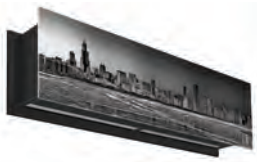
ACCESSORIES

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

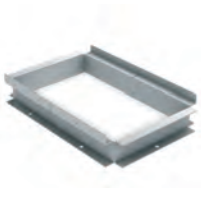


Full panel images

Signage

Clocks

Mounting



Feet

Wall

Arms

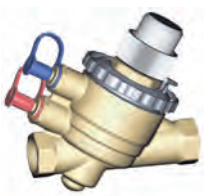
Vibration dampers

Mounting “goal posts”

Valves

Thermostatic

Solenoid



Modulating valves

Sensors

Anti-freeze

Door contact

External temperature

Ambient room thermostat

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