Compact 2 Range

The Compact 2 range is the greatest amount of cutting edge air-curtain technology for a truly economical price





Thermoscreens Compact 2 range air curtains delivers enhanced efficiency and are the ideal solution where space is at a premium. The air curtain can be mounted up to a maximum of 3m. For exposed locations, 2.5m is the recommended mounting height.

The Compact 2 range is available as surface mounted or recessed versions and either ambient, water or electrically heated units. Electrical units use wire wound elements which provide instant heat.

Constructed out of galvanised sheet steel and finished in RAL 9010 (white) the Compact 2 range series comes complete with a mounting brackets, Ecopower controller (water and electric) and two new choices of remote controller. In addition the units are available in widths 1, 1.5, 2 and the new 2.5m long unit.

Key Features





- 2 year warranty
- Modern Styling
- Lower noise levels
- Additional 2.5m long unit
- 3 choices of Remote Controller
- Inlet air grill concealed from view
- Easy-Install hanging system
- Easier access to internal components
- RAL 9010 colour finish as standard
- Colour match service available on request
- Recessed units supplied with hinged core grilles for easy installation and maintenance
- High efficiency electric elements for instant heat
- Joining kits available for connecting multiple surface mounted units
- Improved packaging

Water flow rate and pressure drop

	2 row coil (based on 82/71°C)			
Compact 2	Water Flow Rate (I/min)	Water Pressure Drop (coil) ΔP (kPa)	Water Pressure Drop (valve) ΔP (kPa)	
C2-1000W / C2-1000WR	7.8	3.1	1.4	
C2-1500W / C2-1500WR	11.7	7.9	3.1	
C2-2000W / C2-2000WR	15.6	15.5	5.5	
C2-2500W	19.5	21.2	8.6	

A 4kvs control valve is supplied loose with water heated air curtains which should be fitted into the pipework during installation if required by the customer.

Water flow rate and pressure drop calculations for different water temperatures

To calculate water flow rate and pressure drops for coil and valve at different water temperatures than 82/71°C :-For the new water temperatures use the Thermoscreens coil calculation programme to get the new water flow rate and the new water pressure drop (coil). Then calculate the new water pressure drop (valve) using the following formula:

New Water Pressure Drop (valve) = 82/71 Water Pressure Drop (valve) $\times \left(\frac{\text{New Water Flow Rate}}{82/71 \text{ Water Flow Rate}}\right)^2$

Example: C1500W at 85/65°C, EAT = 20°C

82/71 Water flow rate = 11.7 l/min (from water flow rate and pressure drop table above) *New* water flow rate = 5.8 l/min (from Thermoscreens coil calculation programme) New water pressure drop (coil) = 2.2 kPa (from Thermoscreens coil calculation programme)

Therefore:

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New water pressure drop (valve) = 3.1 x \left(\frac{5.8}{11.7}\right)^2 = 0.7 kPa
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Conversion factors: 1 kPa = 0.102m Water column 10 l per minute = $0.6 \text{ m}^3/\text{h}$

Accessories	
Description	Part Number
Master and slave lead: 3m	T5951001
Ecopower extension lead: 10m	T5951050
Ecopower extension lead: 15m	T5951060
Ecopower extension lead: 30m	T5951020
Extension lead coupler	T5951030
Joining kit	T7308225
Ecopower Controller	T7263630
Ecopower Plus Controller	T7263640
Ecopower Touch Controller	T7263655





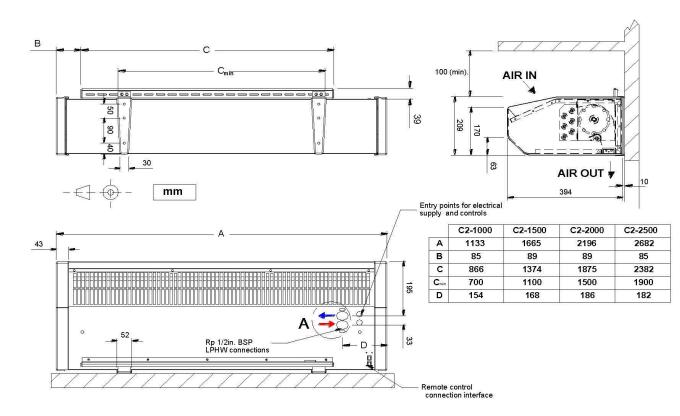


Compact 2 Range

Surface Mounted

Model	Dimensions (L x D x H) (mm)	Supply (50Hz)	Loading (A) per phase	Heat output (kW)	Max velocity (m/s)	Max air volume (m³/h)	Weight (kg)	Noise output dB(A) @3m H M L
Electric								
C2-1000E	1133 x 394 x 209		13.7	4.9/9		1250	19	50 48 46
C2-1500E	1665 x 394 x 209	400V~3P&N	18.3	6.5 / 12	9.0	1800	27	50 48 46
C2-2000E	2196 x 394 x 209		27.2	9.7 / 18		2500	33	51 49 47
C2-2500E	2682 x 394 x 209		32.0	11.3 / 21		3050	39	52 50 48
Water 82/71								
C2-1000W	1133 x 394 x 209		0.7	3/6		1180	21	50 48 46
C2-1500W	1665 x 394 x 209	230V~1P&N	0.9	4.5 / 9	8.5	1700	30	50 48 46
C2-2000W	2196 x 394 x 209		1.1	6/12		2360	37	51 49 47
C2 -2500W	2682 x 394 x 209		1.6	7.5 / 15		2880	44	52 50 48
Ambient								
C2-1000A	1133 x 394 x 209		0.7			1250	19	50 48 46
C2-1500A	1665 x 394 x 209	230V~1P&N	0.9	-	9.0	1800	25	50 48 46
C2-2000A	2196 x 394 x 209		1.1			2500	31	51 49 47
C2-2500A	2682 x 394 x 209		1.6			3050	37	52 50 48

Surface Mounted





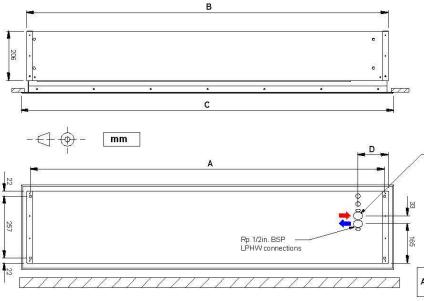


C2 Range

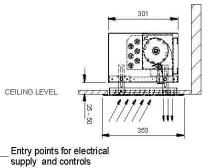
Recessed									
Model	Overall dimensions (L x D x H) (mm)	Standard grille size (mm)	Supply (50Hz)	Loading (A) per phase	Heat output (kW)	Max velocity (m/s)	Max air volume (m³/h)	Weight (kg)	Noise output dB(A) @3m H M L
Electric C2-1000ER C2-1500ER C2-2000ER	1161 x 301 x 206 1561 x 301 x 206 2072 x 301 x 206	1209 x 353 1609 x 353 2120 x 353	400V~3P&N	13.7 18.3 27.2	4.5 / 9 6 / 12 9 / 18	9.0	1205 1800 2500	20 27 37	52 50 48 52 50 48 53 51 49
Water 82/71 C2-1000WR C2-1500WR C2-2000WR	1161 x 301 x 206 1561 x 301 x 206 2072 x 301 x 206	1209 x 353 1609 x 353 2120 x353	230V~1P&N	0.7 0.9 1.1	6 9 12	8.5	1250 1800 2500	22 30 41	52 50 48 52 50 48 53 51 49
Ambient C2-1000AR C2-1500AR C2-2000AR	1161 x 301 x 206 1561 x 301 x206 2072 x 301 x206	1209 x 353 1609 x 353 2120 x 353	230V~1P&N	0.7 0.9 1.1	-	9.0	1250 1800 2500	19 25 35	52 50 48 52 50 48 53 51 49

For recessed units, aperture sizes are shown in the table below.

Recessed



For ceiling drawing, please see the instruction manual.



		C2-1000R	C2-1500R	C2-2000R
	A	1129	1529	2040
	В	1161	1561	2072
	С	1209	1609	2120
	D	131	131	141
	Length	1161	1561	2072
Aperture	Width	301	301	301