

# Envirotec Circular Door Curtains



Specifically designed to suit high profile applications where performance and aesthetic considerations are of equal importance

envirotec

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## Why use the Circular Door Curtain?

Architects, consultants and end users often require a door curtain that combines powerful performance with stylish good looks and ease of maintenance. The Circular Door Curtain was specifically developed to satisfy this need. A standard range has now been created although this is constantly expanding to meet new client's requests for something a little different. The Envirotec philosophy of flexibility and a product designed for any application means that we are very keen to tailor these and other products to incorporate individual client's requirements.

## Where can the Circular Door Curtain be used?

- Any 'on view' application.
- High profile, high tech, architecturally innovative applications.
- Shopping malls, atriums and office complexes.

## Unit Construction

- Casings are zinc-plated steel, which is powder coat painted after fabrication.
- Access panels on the top and sides of the unit are perforated to provide optimum airflow into the door curtain.
- Once removed these panels provide unhindered access to the internal components for connections to services and routine maintenance.

## Mounting Details

The mounting height varies from 3.0m to 4.0m depending on the application and unit type being used. See table opposite for further details.

A wide range of mounting brackets has been developed and is available to suit differing site requirements.

- Rear mounted 6mm plate cantilever brackets, two fitted to units 900mm to 1700mm, three fitted to units 1800mm and larger.
- Drop rod mounts can also be supplied.

A single 900 x 380mm CDC Door Curtain installed over a modest sized entrance. Although unobtrusive, the unit still provides the level of performance demanded by the client.



## Case Finish

- Powder-coated to any available RAL or BS specification. (White RAL9010 will be supplied as standard unless otherwise requested.)
- Brushed stainless steel.

## Grille Type

- Linear discharge grille, powder-coated to match the unit casing.
- Where a brushed stainless steel unit is requested, a matching grille will usually be installed.
- We are happy to match client's special grille requirements.

## LPHW Door Curtain (suffix 'W')

- Tube Material: Copper.
- Fin Material: Aluminium.
- Coil connections, 22mm plain copper for 500mm diameter units and 15mm for 380mm diameter units.
- Note that all connections are terminated inside the unit, enabling the customer to determine the most suitable location to perforate the casing.
- Pressure testing: All coils are pressure tested to 22 bar (350lbs/in<sup>2</sup>).

## Steam Door Curtain (suffix 'S')

- Tube Material: Copper.
- Fin Material: Aluminium.
- Internal connections, 1" BSP male on all unit sizes.
- Note that all connections are terminated inside the unit, enabling the customer to determine the most suitable location to perforate the casing.
- Pressure testing: All coils are pressure tested to 22 bar (350lbs/in<sup>2</sup>).

## Ambient Door Curtain (suffix 'A')

- Where heating is not required, ambient units can be supplied.

## Electric Door Curtain (suffix 'E')

- Multi-element finned heaters.
- Suitable for both single and three-phase supplies.
- Element construction: high quality 80/20 nickel chrome resistance wire, centred in metal tubes by compressed magnesium oxide.
- A manual reset high temperature cutout is installed as standard.
- Automatic resets can be fitted at customer's request.



One of a pair of 2800 x 500mm vertical CDC Door Curtains installed at the entrance to a motorway services development, finished in brushed stainless steel

## Wiring and Controls Options – Water, Steam & Ambient Units

- Water, Steam and Ambient door curtains are wired to a fused spur, mounted on the unit.

## Wiring and Controls Options – Electric Units

- Units are wired as standard to a unit mounted terminal strip to allow for 'others' to supply all controls.
- Alternatively, we can provide a fused contactor box and switch to enable remote control of both the heater and fans. The contactor box would be supplied loose.
- A further option would be to provide automatic two-stage control of the heater.

## Electrical Supply

- Ambient, LPHW and Steam Circular Door Curtains: single-phase supply (230/1/50).
- Electric units: usually a three-phase supply (415/3/50), although units can be supplied suitable for a single-phase supply if the heat output is suitably low enough.

# Technical Specification

## 500mm DIAMETER DOOR CURTAINS – STANDARD OUTPUT (maximum mounting height 3.0 metres)

Unit Type	Unit Dimensions			LPHW Heating				Electric Heating
	Length mm	Diameter mm	Weight kg	Coil Connections mm	Output kW	Flow Rate l/s	WPD kPa	Output kW
CDC 2000/500W	2000	500	95	22	25.5	0.57	23.1	-
CDC 2000/500E	2000	500	95	-	-	-	-	15
CDC 1800/500W	1800	500	89	22	24	0.53	20.5	-
CDC 1800/500E	1800	500	89	-	-	-	-	12
CDC 1600/500W	1600	500	79	22	22.4	0.50	15.2	-
CDC 1600/500E	1600	500	79	-	-	-	-	12
CDC 1500/500W	1500	500	76	22	21.5	0.48	13.7	-
CDC 1500/500E	1500	500	76	-	-	-	-	12
CDC 1220/500W	1220	500	63	22	15.2	0.34	6.5	-
CDC 1220/500E	1220	500	63	-	-	-	-	9
CDC 915/500W	915	500	53	22	12.1	0.27	3.8	-
CDC 915/500E	915	500	53	-	-	-	-	6

## 500mm DIAMETER DOOR CURTAINS – HIGH OUTPUT (maximum mounting height 4.0 metres)

Unit Type	Unit Dimensions			LPHW Heating				Electric Heating
	Width mm	Diameter mm	Weight kg	Coil Connections mm	Output kW	Flow Rate l/s	WPD kPa	Output kW
CDC 2000/500W	2000	500	99	22	29.7	0.66	27.7	-
CDC 2000/500E	2000	500	99	-	-	-	-	18
CDC 1800/500W	1800	500	93	22	27.9	0.62	24.3	-
CDC 1800/500E	1800	500	93	-	-	-	-	18
CDC 1700/500W	1700	500	87	22	26.9	0.6	22.1	-
CDC 1700/500E	1700	500	87	-	-	-	-	18

## 380mm DIAMETER DOOR CURTAINS – (maximum mounting height 3.0 metres)

Unit Type	Unit Dimensions			LPHW Heating				Electric Heating
	Width mm	Diameter mm	Weight kg	Coil Connections mm	Output kW	Flow Rate l/s	WPD kPa	Output kW
CDC 1800/380W	1800	380	70	15	14.1	0.31	16.2	-
CDC 1800/380E	1800	380	70	-	-	-	-	12
CDC 1500/380W	1500	380	59	15	12.5	0.28	11.4	-
CDC 1500/380E	1500	380	59	-	-	-	-	9
CDC 1220/380W	1220	380	45	15	7.7	0.17	4.1	-
CDC 1220/380E	1220	380	45	-	-	-	-	6
CDC 900/380W	900	380	37	15	6.1	0.14	2.2	-
CDC 900/380E	900	380	37	-	-	-	-	6

Note: Standard output electric heaters shown above. Other outputs available on request.

Units fitted with electric heaters rated at 9.0kW or above would normally require a three-phase supply.

## CIRCULAR DOOR CURTAIN MOTOR RATINGS

	MOTOR SUPPLY	TOTAL MOTOR POWER kW	TOTAL F.L.C. Amps	TOTAL START CURRENT Amps
500mm Diameter, Std Output	230/1/50	0.18	2.5	6.5
500mm Diameter, High Output	230/1/50	0.36	5	13
380mm Diameter, shorter than 1500mm	230/1/50	0.07	0.8	2.4
380mm Diameter, 1500mm long or above	230/1/50	0.15	1.6	4.8

A standard CDC2000/500W. Note the typical mounting brackets installed on the rear of the unit. Other styles or bespoke designs are available.

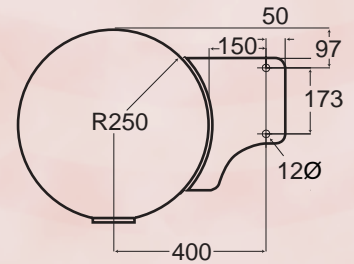
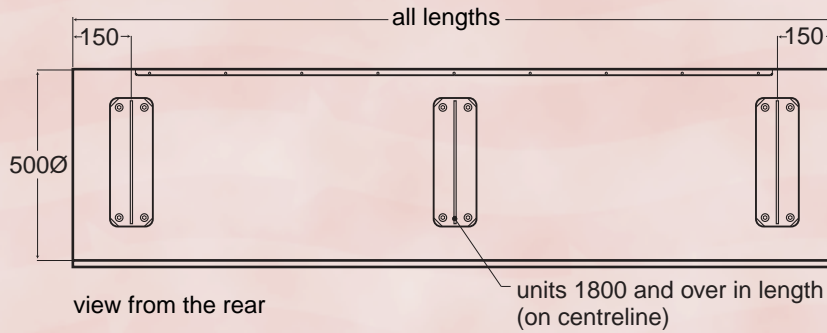
A single 2000 x 500mm CDC unit combining an effective air curtain with a modern, clean appearance.



# Circular Door Curtain – General Arrangement

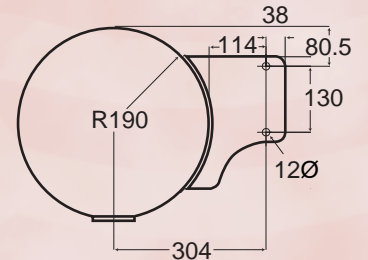
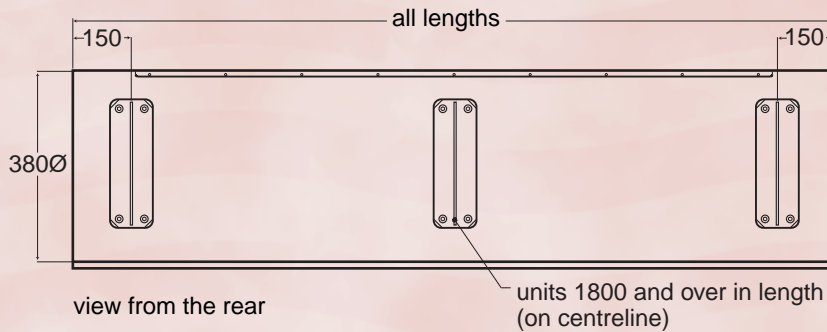
## 500 Diameter Unit

c/w standard mounting brackets



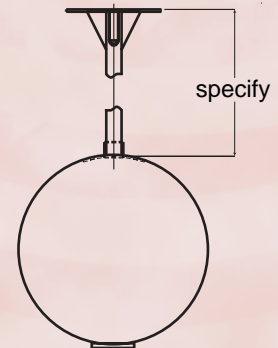
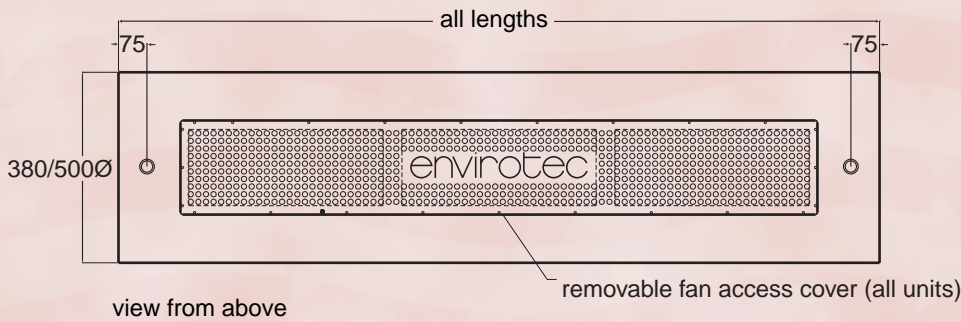
## 380 Diameter Unit

c/w standard mounting brackets



## 500/380 Diameter Unit

c/w optional drop rod fixings



For units 500Ø with electric heaters and contactors, a control box 225 x 225 x 155 will be supplied loose.  
For units 380Ø with electric heaters and contactors, a control box 225 x 225 x 155 will be supplied loose.

Units 1800 long (except drop rod fixing) and above supplied with three brackets as shown above.  
Units shorter than 1800 supplied with only two brackets.

All unit sizes may be fitted with two vertical drop rod fixings as an option.

All dimensions in millimetres.

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