Series CMS/CMC

Envirotec Circular Mini Screens and Convectors

envirotec

Ideal for commercial applications.
Mini circular units combining contemporary appearance with value for money.

Why use the Circular Mini Screen or Mini Convector (types CMC & CMS)

Circular door curtains are a popular choice with architects, consultants and end-users who require a door curtain that combines powerful performance with stylish good looks. Sometimes however, the 500 or 380mm diameter CDC models are too large, or the application may not require a high output.

Envirotec's solution is to provide smaller circular units that more closely match the aesthetics of the installation – the 280mm diameter Mini Screens (CMS) and 230mm Mini Convectors (CMC).

CMS1200E, 280mm diameter Circular Mini Screen.

CMC1000E, 230mm diameter Circular Mini Screen.

Where can the Circular Mini Screen (CMS) be used?

- Light commercial or office entrances.
- Leisure facilities.
- Where electric heating of up to 12kW is required per air curtain.
- Where a compact, stylish door curtain is required.

Where can the Circular Mini Convector (CMC) be used?

- Where convector electric heating is required up to 6kW.
- Pass doors, disabled entrances, etc.
- Infrequently used entrances.
- Smaller commercial and retail entrances.
- Where a compact and stylish convector is required.

Are larger Circular Door Curtains available?

For applications where a larger unit is required, please refer to our range of 380 and 500mm diameter door curtains (type CDC).

Mounting Height

- CMS can be mounted up to 2.7 metres from the outlet grille.
- CMC should be mounted no higher than 2.2 metres.

Case Finish

Powder-coated to any available RAL or BS specification (gloss white, RAL 9010 will be supplied as standard unless otherwise requested).

Construction

- CMS & CMC: Zinc-plated steel, powder coated after fabrication.
- CMS: Perforated access panel on top of the unit, ensuring optimum return air flow. Also provides unhindered access to the internal components for both connecting to services and routine maintenance.
- CMC: Access to the internal components is via removable end plates.

Fixing Details

- Optional brackets enable both unit types to be ceiling or wall mounted.
- Alternative brackets to accomodate drop-rods can be installed.
- Bespoke brackets to suit individual client's requitements can be designed and produced.

Heater Options

- Electric heaters suitable for both single and three-phase supplies depending on output. CMC & CMS units (suffix 'E').
- LPHW heaters constructed using copper tubes and aluminium fins. 25mm copper connections are terminated inside the unit casing to enable the installer to bring his services into the unit at the most appropriate point. CMS only (suffix 'W').
- Ambient units can be manufactured when the customer decides heating is not required. CMS & CMC units (suffix 'A').

Wiring and Controls Options – Water, & Ambient Units

- CMS units are wired to a remote mounted two-speed switch.
- CMC units are not supplied with LPHW coils.

Wiring and Controls Options – Electric Units

- Units are wired to a remote mounted control switch which would provide three heat settings and a fan on/off.
- Other controls options are available on request.

Electrical Supply

- Ambient and LPHW units: single-phase supply (230/1/50).
- Electric units: usually a single-phase supply (230/1/50), however units fitted with electric heaters rated over 6.0kW would normally require a three-phase supply (415/3/50).

Energy Saving Option

- As with all Envirotec door curtains, the 'Enetec Energy Saving Controller' can be supplied with units fitted with electric heaters. Independent tests have shown that substantial savings can be made when the 'Enetec' has been installed.

Technical Specification

CMS, 280mm diameter CIRCULAR MINI SCREEN (Maximum mounting height 2.7m)

Unit Type	Unit Dimensions			LPHW Heating				Electric Heating
	Length mm	Dia mm	Weight kg	Coil Conns mm	Output kW	Flow Rate l/s	WPD KPa	Output kW
CMS 1000/280	1000	280	25	15	3.76	0.09	2.4	3 or 6kW
CMS 1200/280	1200	280	30	15	4.72	0.10	3.9	6 or 9kW
CMS 1300/280	1300	280	32	15	4.95	0.11	4.4	6 or 9kW
CMS 1400/280	1400	280	34	15	4.99	0.12	4.7	6 or 9kW
CMS 1500/280	1500	280	36	15	6.15	0.14	7.6	6 or 9kW
CMS 1600/280	1600	280	38	15	7.02	0.16	10.2	6 or 9kW
CMS 2000/280	2000	280	47	15	8.96	0.20	19.8	6, 9 or 12kW

CMC, 230mm diameter CIRCULAR MINI CONVECTOR (Maximum mounting height 2.2m)

Unit Type	Unit Dimensions			LPHW Heating				Electric Heating
	Length mm	Dia mm	Weight kg	Coil Conns mm	Output kW	Flow Rate l/s	WPD KPa	Output kW
CMC 915/230	915	230	15	n/a*	n/a*	n/a*	n/a*	3 or 6kW
CMC 1400/230	1400	230	22	n/a*	n/a*	n/a*	n/a*	3 or 6kW
CMC 1800/230	1800	230	28	n/a*	n/a*	n/a*	n/a*	3 or 6kW

*CMC not available with LPHW heater.

Please Note: Units fitted with electric heaters rated over 6.0kW would normally require a three-phase supply.

CMC & CMS MOTOR RATINGS

	MOTOR SUPPLY	TOTAL MOTOR POWER kW	TOTAL F.L.C. Amps
CMS all sizes except 2000mm long	230/1/50	0.05	0.65
CMS 2000mm long only	230/1/50	1.0	1.3
CMC all sizes	230/1/50	0.04	0.5

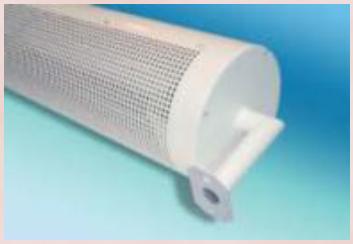
CMS end plate detail. Note the un-flanged grille with contoured linear blades.

CMC end plate detail. Access to internal components is via the central plate.

Bespoke Fixing Methods

We have successfully provided a number of bespoke fixing arrangements for customers.

Standard CMS fixing bracket.



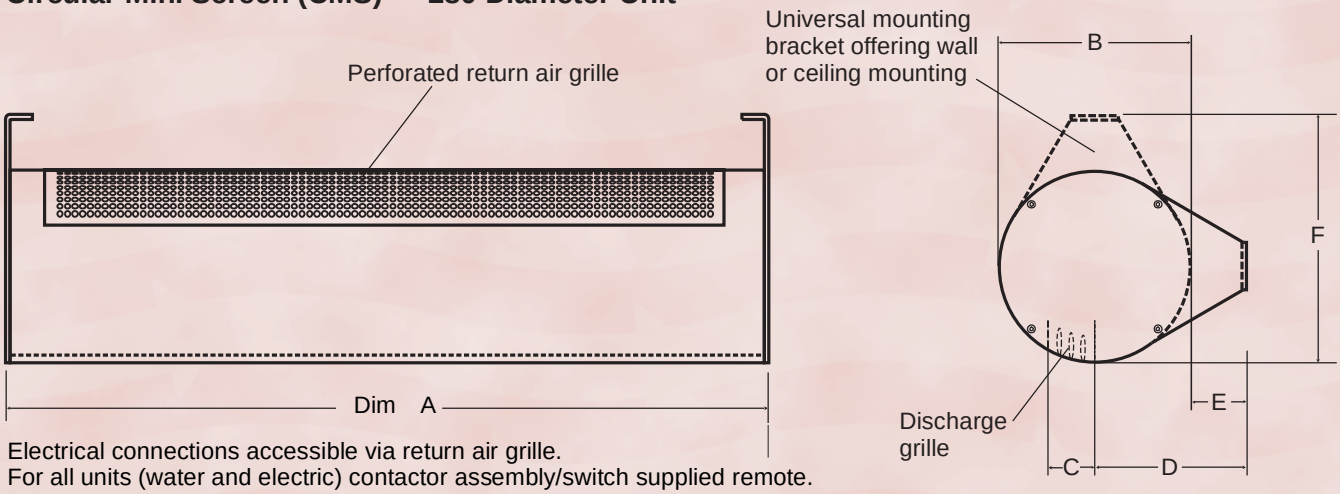
Bespoke bracket, useful as conduit for electrical connections.

The Enertec 'energy saving controller' will greatly reduce the client's operating costs.

Hand crafted, bespoke air curtains are Envirotec's speciality, with all units built to order.

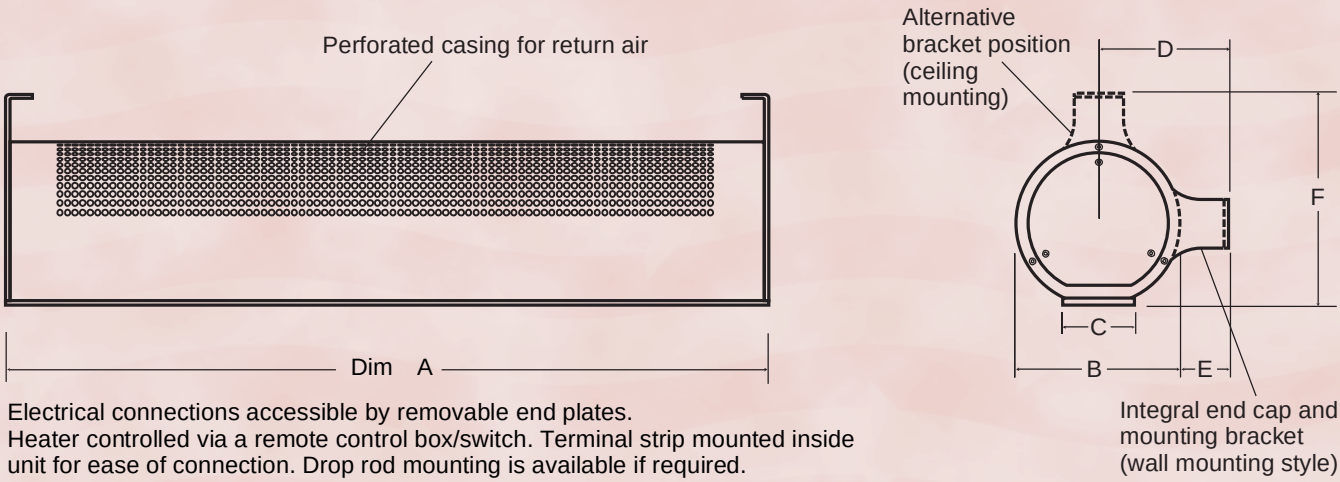
CMC & CMS – General Arrangement

Circular Mini Screen (CMS) — 280 Diameter Unit



Electrical connections accessible via return air grille.
For all units (water and electric) contactor assembly/switch supplied remote.
All dimensions in millimetres.

Circular Mini Screen Convector (CMC) — 230 Diameter Unit



Electrical connections accessible by removable end plates.
Heater controlled via a remote control box/switch. Terminal strip mounted inside unit for ease of connection. Drop rod mounting is available if required.

Unit Type	Unit Dimensions		Dimensions			
	Dim A mm	Dim B mm	Dim C mm	Dim D mm	Dim E mm	Dim F mm
CMS 1050/280	1050	280	70	224	84	365
CMS 1200/280	1200	280	70	224	84	365
CMS 1300/280	1300	280	70	224	84	365
CMS 1400/280	1400	280	70	224	84	365
CMS 1500/280	1500	280	70	224	84	365
CMS 1600/280	1600	280	70	224	84	365
CMS 2000/280	2000	280	70	224	84	365
CMC 915/230	915	230	97	200	86	307
CMC 1400/230	1400	230	97	200	86	307
CMC 1800/230	1800	230	97	200	86	307

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