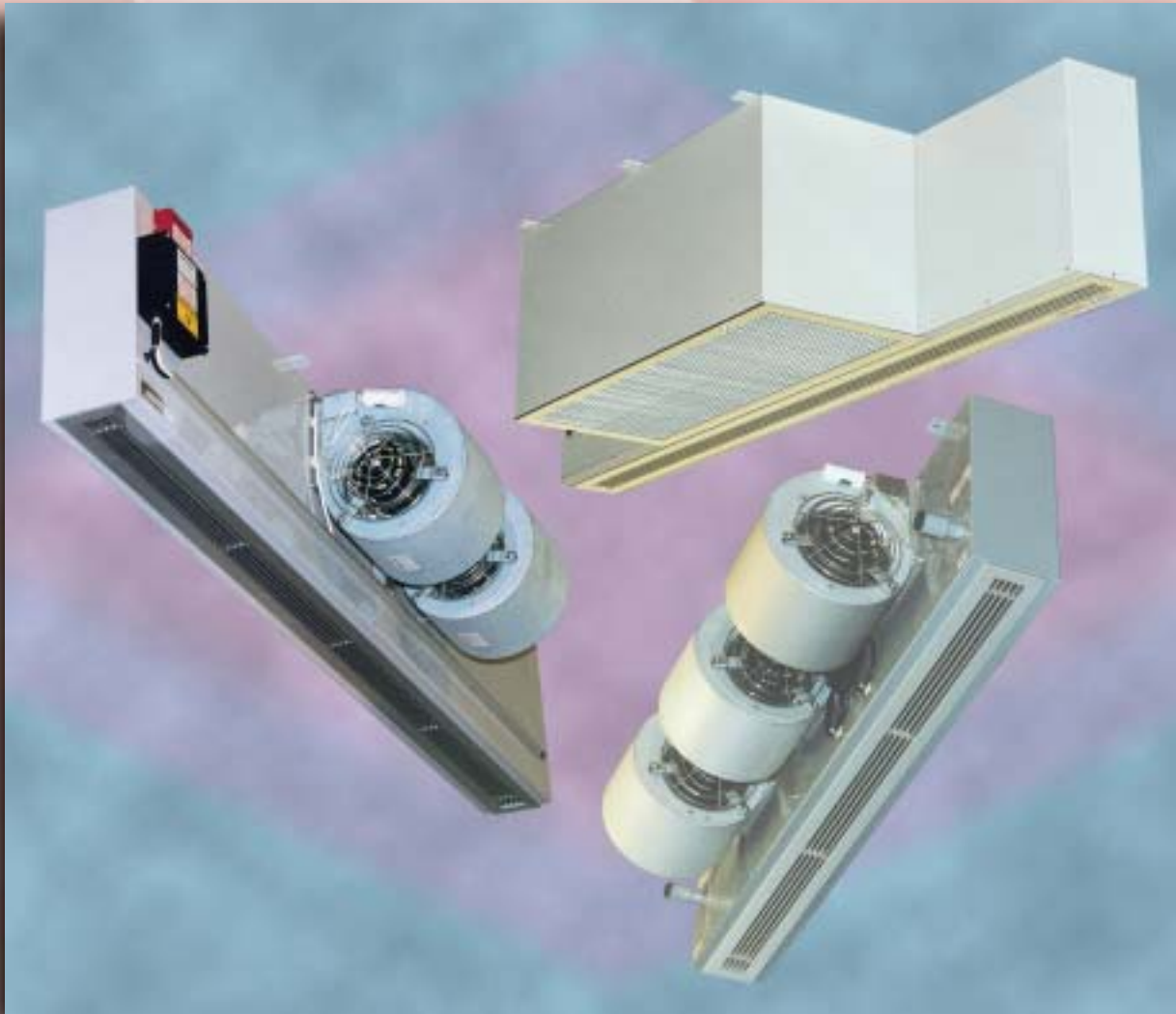


# Envirotec High Output Door Curtains



High performance commercial and industrial door curtains, designed to cover a wide range of both recessed and exposed applications

envirotec

# Envirotec High Output Door Curtains

## Why use the Envirotec High Output Door Curtain (Models EDC & ESS)?

When performance is key but a functional appearance is adequate these door curtains are a natural choice.

The EDC Type A Door Curtain offers a cost-effective solution to most applications. Designed for recessing into a bulkhead or false ceiling, the EDC Type A offers a simple unfiltered unit with low maintenance requirements.

Where the return air needs to be filtered, the EDC Type D should be used, as it is provided with a return air grille and filter housing.

For high mounting height applications such as loading bays where units are installed as high as 5.0m, the ESS Type A or D version should be selected.

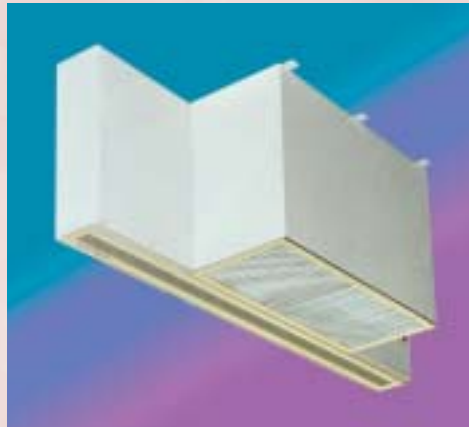
Two basic unit styles are offered, for both model EDC & ESS. Details are as follows:

### EDC TYPE A



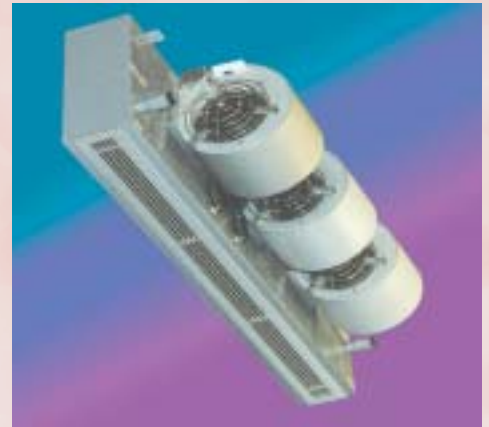
An economical unfiltered door curtain designed for recessed installation within a bulkhead or false ceiling. The single fan complete with inlet guards, shown above, is installed on the EDC 915 TYPE A only. All other TYPE A units have two fans fitted.

### EDC TYPE D



A filtered variation on the TYPE A for recessed installation within a bulkhead or false ceiling. The TYPE D is fitted with a return air plenum that encases the supply fans. A hinged core egg-crate grille provides access to both the filters and the fans.

### ESS TYPE A & TYPE D



Again available in TYPE A & D styles (TYPE A above), the ESS has three fans fitted to all models to enable operating heights of up to 5.0m to be achieved. With the ESS TYPE D, the return air plenum and egg-crate grille is wider than that fitted to the EDC TYPE D, to accommodate this additional fan.

## Where can the Construction and ESS Door Curtain be used?

- At entrances, exits, or applications where a high air output is required – all units.
- Recessed applications – all units.
- 'On view' applications – when performance overrides appearance – all units.
- Entrances with mounting heights up to 5.0m, such as loading bays or atriums – Type ESS only.

## Mounting Height

- EDC units can be installed up to 4.0m with fans on high speed and 3.0m with fans on low speed.
- ESS units can be installed up to 5.0m with fans on high speed and 4.0m with fans on low speed.
- All unit types are designed to accommodate drop rods.
- Please refer to the layout drawings for fixing details.

## Unit Construction

- All units are constructed using zinc-plated steel, which is powder coat painted after fabrication.

## Case Finish

Powder-coated to any available RAL or BS specification (Goose Grey, BS00A05 will be supplied as standard unless otherwise requested).

## Grille Type

- Type A: Anodised linear discharge grille.
- Type D: Anodised linear discharge grille and hinged 'egg-crate' return air grille.
- Grilles can be powder coated to suit client requirements.

## LPHW Door Curtain (suffix 'W')

- Tube Material: Copper.
- Fin Material: Aluminium.
- 1" BSP Female connections are terminated outside the unit, enabling the customer easy connection to services.
- Pressure testing: All coils are pressure tested to 22 bar (350 lbs/in<sup>2</sup>).

## Steam Door Curtain (suffix 'S')

- Tube Material: Copper.
- Fin Material: Aluminium.
- 1" BSP Female or flanged connections are terminated outside the unit, enabling the customer easy connection to services.
- Pressure testing: All coils are pressure tested to 22 bar (350 lbs/in<sup>2</sup>).

## 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 cut-out is installed as standard.
- Automatic resets can be fitted at customer's request.

## Ambient Door Curtain (suffix 'A')

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

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

- Water, Steam and Ambient door curtains are wired to a unit mounted two-speed switch.

## 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.
- As an alternative, we can provide a fused contactor box and switch to enable remote control of both the heater and fans. The contactor box would be fitted to the unit unless otherwise requested.
- A further option would exclude the remote switch, instead providing automatic two-stage control of the heater.

## Electrical Supply

- Ambient, LPHW and steam EDC & ESS units: 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

## EDC TYPE A (Maximum mounting height on high speed: 4.0m. Maximum mounting height on low speed 3.0m)

Unit Type	Unit Dimensions				LPHW Heating						Electric Heating	
	Width mm	Depth mm	Height mm	Weight kg	Output Fan High kW	Output Fan Low kW	Flow Rate Fan High l/s	Flow rate Fan Low l/s	WPD Fan High KPa	WPD Fan Low KPa	Output Fan High kW	Output Fan Low kW
EDC 915 Type A	915	485	420	26	14.4	11.3	0.321	0.252	2.3	1.4	6	6
EDC 1220 Type A	1220	485	420	40	23.0	18.1	0.511	0.403	5.8	3.7	9	9
EDC 1500 Type A	1500	485	420	45	29.5	23.1	0.657	0.514	10.0	6.2	12	12
EDC 1800 Type A	1800	485	420	50	33.0	25.5	0.734	0.568	13.0	7.9	12	12
EDC 2100 Type A	2100	485	420	52	36.1	27.6	0.804	0.613	16.2	9.6	15	15

## EDC TYPE D (Maximum mounting height on high speed: 4.0m. Maximum mounting height on low speed 3.0m)

Unit Type	Unit Dimensions				LPHW Heating						Electric Heating	
	Width mm	Depth mm	Height mm	Weight kg	Output Fan High kW	Output Fan Low kW	Flow Rate Fan High l/s	Flow rate Fan Low l/s	WPD Fan High KPa	WPD Fan Low KPa	Output Fan High kW	Output Fan Low kW
EDC 915 Type D	915	535	420	37	14.4	11.3	0.321	0.252	2.3	1.4	6	6
EDC 1220 Type D	1220	535	420	51	23.0	18.1	0.511	0.403	5.8	3.7	9	9
EDC 1500 Type D	1500	535	420	56	29.5	23.1	0.657	0.514	10.0	6.2	12	12
EDC 1800 Type D	1800	535	420	61	33.0	25.5	0.734	0.568	13.0	7.9	12	12
EDC 2100 Type D	2100	535	420	63	36.1	27.6	0.804	0.613	16.2	9.6	15	15

## ESS TYPE A (Maximum mounting height on high speed: 5.0m. Maximum mounting height on low speed 4.0m)

Unit Type	Unit Dimensions				LPHW Heating						Electric Heating	
	Width mm	Depth mm	Height mm	Weight kg	Output Fan High kW	Output Fan Low kW	Flow Rate Fan High l/s	Flow rate Fan Low l/s	WPD Fan High KPa	WPD Fan Low KPa	Output Fan High kW	Output Fan Low kW
ESS 1500 Type A	1500	485	420	53	34.7	27.7	0.772	0.615	13.7	8.8	24	18
ESS 1800 Type A	1800	485	420	58	40.9	32.2	0.910	0.716	19.7	12.4	24	18
ESS 2100 Type A	2100	485	420	63	45.7	35.8	1.017	0.797	14.4	16.0	24	18

## ESS TYPE D (Maximum mounting height on high speed: 5.0m. Maximum mounting height on low speed 4.0m)

Unit Type	Unit Dimensions				LPHW Heating						Electric Heating	
	Width mm	Depth mm	Height mm	Weight kg	Output Fan High kW	Output Fan Low kW	Flow Rate Fan High l/s	Flow rate Fan Low l/s	WPD Fan High KPa	WPD Fan Low KPa	Output Fan High kW	Output Fan Low kW
ESS 1500 Type D	1500	535	420	69	34.7	27.7	0.772	0.615	13.7	8.8	24	18
ESS 1800 Type D	1800	535	420	74	40.9	32.2	0.910	0.716	19.7	12.4	24	18
ESS 2100 Type D	2100	535	420	79	45.7	35.8	1.017	0.797	14.4	16.0	24	18

Please Note: Standard output electric heaters shown above, other outputs are available on request.

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

## DOOR CURTAIN MOTOR RATINGS

	MOTOR SUPPLY	TOTAL MOTOR POWER kW	TOTAL F.L.C. Amps	TOTAL START CURRENT Amps
EDC 915, both Type A & D	230/1/50	0.2	1.6	5
EDC 1220, 1500, 1800 & 2100, both Type A & D	230/1/50	0.4	3.2	10
ESS 1500, 1800 & 2100 both Type A & D	230/1/50	0.6	4.8	15

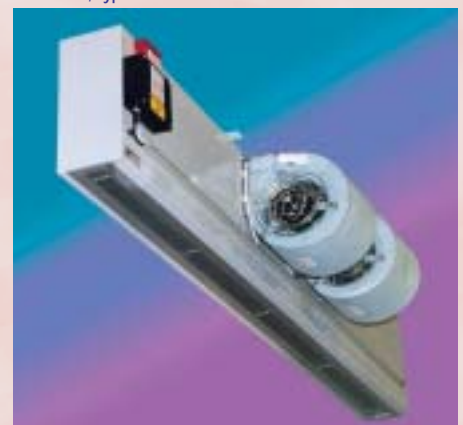
EDC 1500W, Type A LPHW unit.



Special 'curved' EDC Type A unit.

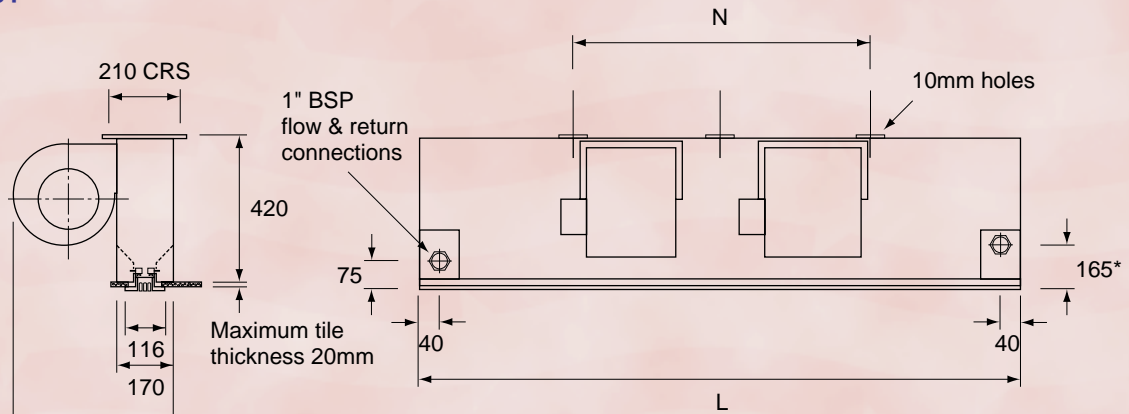


EDC 2100E, Type A electric unit with unit mounted contactors.



# EDC & ESS – General Arrangement

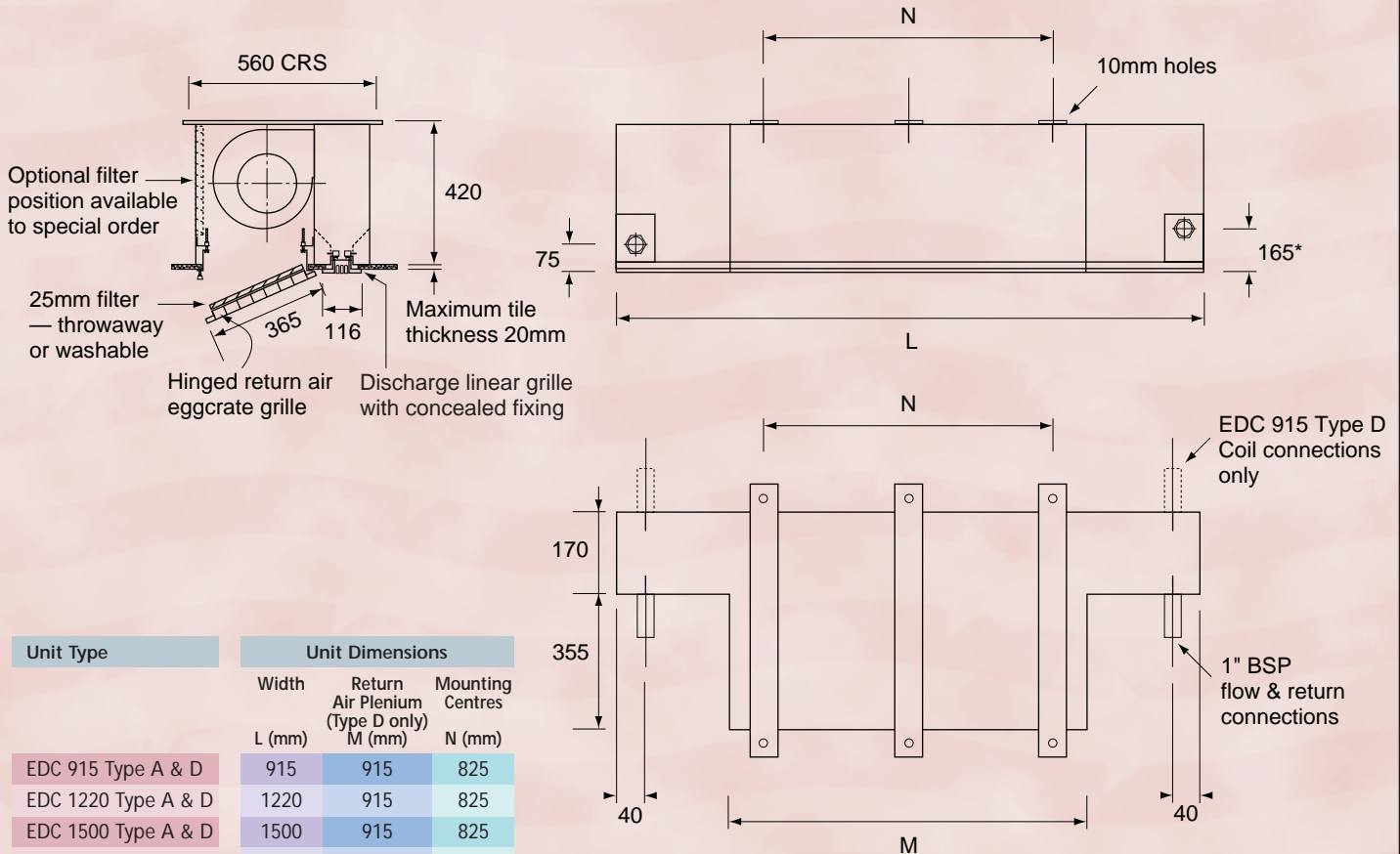
## EDC & ESS Type A



Note:  
 a. The EDC 915 Type A has one centrally placed fan only.  
 b. All ESS Type A are fitted with three fans.

\*This dimension may vary with different outputs

## EDC & ESS Type D



Unit Type	Unit Dimensions		
	Width	Return Air Plenum (Type D only)	Mounting Centres
	L (mm)	M (mm)	N (mm)
EDC 915 Type A & D	915	915	825
EDC 1220 Type A & D	1220	915	825
EDC 1500 Type A & D	1500	915	825
EDC 1800 Type A & D	1800	915	825
EDC 2100 Type A & D	2100	915	825
ESS 1500 Type A & D	1500	1370	1280
ESS 1800 Type A & D	1800	1370	1280
ESS 2100 Type A & D	2100	1370	1280

Note:  
 Coil connections for the EDC 915 Type D are on the front face of the unit

\*This dimension may vary with different outputs

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