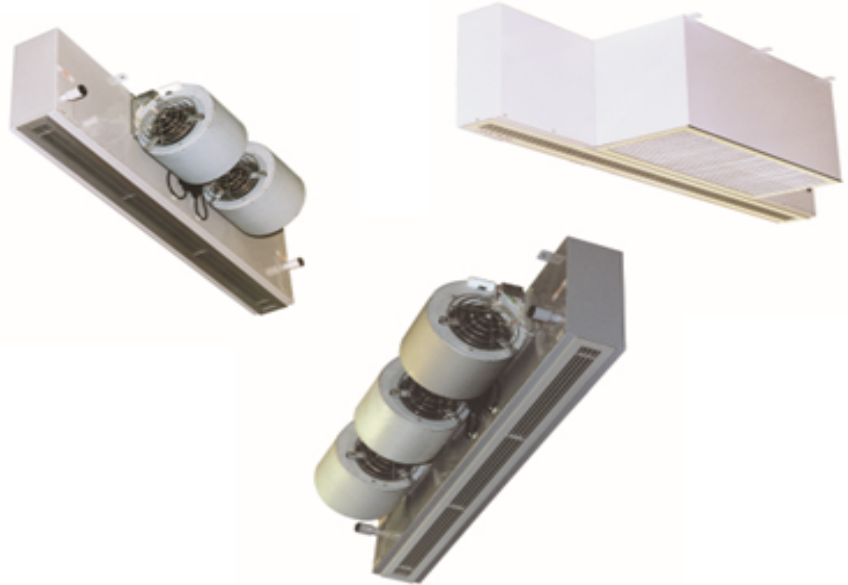




To discuss your requirements in more detail please contact one of our experts on freshthinking@envirotec.co.uk or call 01494 525 342

Envirotec EAC & ESS Air Curtains

When performance is essential and a functional appearance is demanded, these air curtains are the perfect choice. Developed to provide an effective air barrier at doorways, the EAC and ESS units help maintain an excellent indoor environment.

The units are available in 2 different ranges:

- The EAC air curtain is suitable to be mounted up to 4m high
- The ESS air curtain is suitable for mounting up to 5m high.

Examples of where they can be used includes reception areas, retail stores, supermarkets and offices.

Key Features

Mounting Height

- **EAC** Up to 4.0m
- **ESS** Up to 5.0m

Standard Lengths

- **EAC** 915, 1220, 1500, 1800, 2100mm
- **ESS** 1500, 1800, 2100mm

Variants Ambient, Water, Electric

Colour Grilles finished in Anodised aluminium, case BS00A05 (Goose grey)

- Powerful airflow & heat output
- Two versions available;
 - Type A - chassis unit
 - Type D - cased unit
- Suitable for a wide range of applications
- Bespoke options include;
 - Any available RAL paint colour
 - Sizes
 - Controls

Envirotec EAC & ESS Air Curtains - Variants

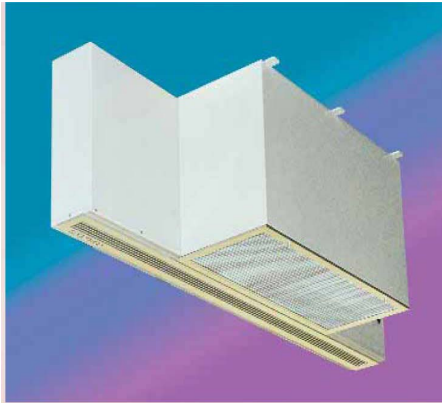
The EAC & ESS range of air curtains are available in 2 different model variants, a chassis version or a cased version.

Mounting height up to 4m

EAC TYPE A



EAC TYPE D



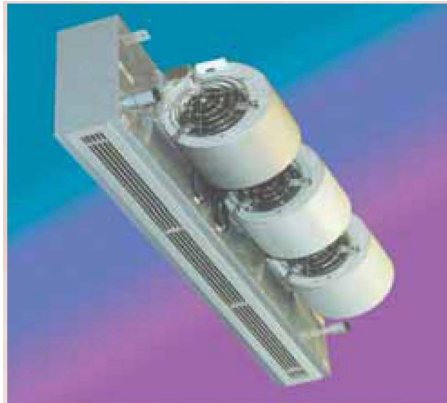
The EAC Type A Air Curtain offers a cost-effective solution for most applications. Designed to be recessed into a bulkhead or false ceiling, the EAC Type A offers a simple unfiltered unit with low maintenance requirements.

The EAC 915 Type model comes with a single fan, whilst the other sizes have two fans fitted.

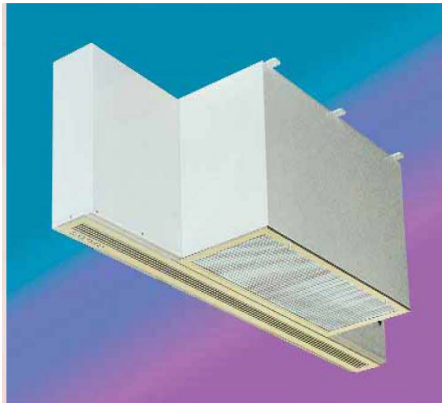
The EAC Type D is a filtered variant and is fitted with a return air plenum that encases the supply fans. A hinged core egg-crate grille provides access to both the filters and the fans.

Mounting height up to 5m

ESS TYPE A



ESS TYPE D



The ESS Air Curtain is designed for those projects where the mounting height is up to 5m.

As with the EAC range, ESS Air Curtains are available in both Type A and Type D versions depending on customer application.

All ESS models are fitted with three fans to deliver a powerful, efficient solution to a wide range of entrances.

Unit Construction

- All units are constructed using powder coated zinc-plated steel
- Units supplied with casework finished to BS00A05 (Goose grey)
- Units can be finished in any commercially available RAL colour subject to additional cost. Please contact our sales office for details.

Grille Details

- 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.

Filters

- Type A: Unfiltered.
- Type D: 25mm disposable type

Mounting Height

- EAC 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.

LPHW Air Curtain (suffix "W")

- Tube material: copper
- Fin material: aluminum
- 1" BSP female connections terminating outside the unit for easy connections to services
- All coils pressure tested to 22 bar (350lbs/in²)

Electric Air Curtain (suffix "E")

- Multi element finned heaters
- Suitable for both single and three-phase supplies.
- High temperature cutout installed as standard.

Ambient Air Curtain (suffix "A")

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

Technical Specification

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

Unit Type	Unit Dimensions				Airflow m/s	Output		LPHW Heating Flow Rate		WPD		Electric Heating Output	
	Width	Depth	Height	Weight		Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
	mm	mm	mm	kg		kW	kW	l/s	l/s	KPa	KPa	kW	kW
EAC 915 Type A	915	485	420	26	0.37	14.4	11.3	0.321	0.252	2.3	1.4	6	6
EAC 1220 Type A	1220	485	420	40	0.74	23.0	18.1	0.511	0.403	5.8	3.7	9	9
EAC 1500 Type A	1500	485	420	45	0.74	29.5	23.1	0.657	0.514	10.0	6.2	12	12
EAC 1800 Type A	1800	485	420	50	0.74	33.0	25.5	0.734	0.568	13.0	7.9	12	12
EAC 2100 Type A	2100	485	420	52	0.74	36.1	27.6	0.804	0.613	16.2	9.6	15	15

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

Unit Type	Unit Dimensions				Airflow m/s	Output		LPHW Heating Flow Rate		WPD		Electric Heating Output	
	Width	Depth	Height	Weight		Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
	mm	mm	mm	kg		kW	kW	l/s	l/s	KPa	KPa	kW	kW
EAC 915 Type D	915	535	420	37	0.37	14.4	11.3	0.321	0.252	2.3	1.4	6	6
EAC 1220 Type D	1220	535	420	51	0.74	23.0	18.1	0.511	0.403	5.8	3.7	9	9
EAC 1500 Type D	1500	535	420	56	0.74	29.5	23.1	0.657	0.514	10.0	6.2	12	12
EAC 1800 Type D	1800	535	420	61	0.74	33.0	25.5	0.734	0.568	13.0	7.9	12	12
EAC 2100 Type D	2100	535	420	63	0.74	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				Airflow m/s	Output		LPHW Heating Flow Rate		WPD		Electric Heating Output	
	Width	Depth	Height	Weight		Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
	mm	mm	mm	kg		kW	kW	l/s	l/s	KPa	KPa	kW	kW
ESS 1500 Type A	1500	485	420	53	1.11	34.7	27.7	0.772	0.615	13.7	8.8	24	18
ESS 1800 Type A	1800	485	420	58	1.11	40.9	32.2	0.910	0.716	19.7	12.4	24	18
ESS 2100 Type A	2100	485	420	63	1.11	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				Airflow m/s	Output		LPHW Heating Flow Rate		WPD		Electric Heating Output	
	Width	Depth	Height	Weight		Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
	mm	mm	mm	kg		kW	kW	l/s	l/s	KPa	KPa	kW	kW
ESS 1500 Type D	1500	535	420	69	1.11	34.7	27.7	0.772	0.615	13.7	8.8	24	18
ESS 1800 Type D	1800	535	420	74	1.11	40.9	32.2	0.910	0.716	19.7	12.4	24	18
ESS 2100 Type D	2100	535	420	79	1.11	45.7	35.8	1.017	0.797	14.4	16.0	24	18

- Please note: all LPHW heating output is based on water Flow/Return temperature of 82/71°C

Air Curtain Motor Ratings

	FLC	
	Supply	Amps
EAC 915 (Type A & D)	230/1/50	1.9
EAC 1220, 1500, 1800 & 2100 (Type A & D)	230/1/50	3.8
ESS 1500, 1800 & 2100 (Type A & D)	230/1/50	5.7



Wiring & Controls - Ambient Units

- Wired to: GSS634/D
- Terminal strip wiring available on request to allow for controls "by others"
- Single phase supply (230/1/50)

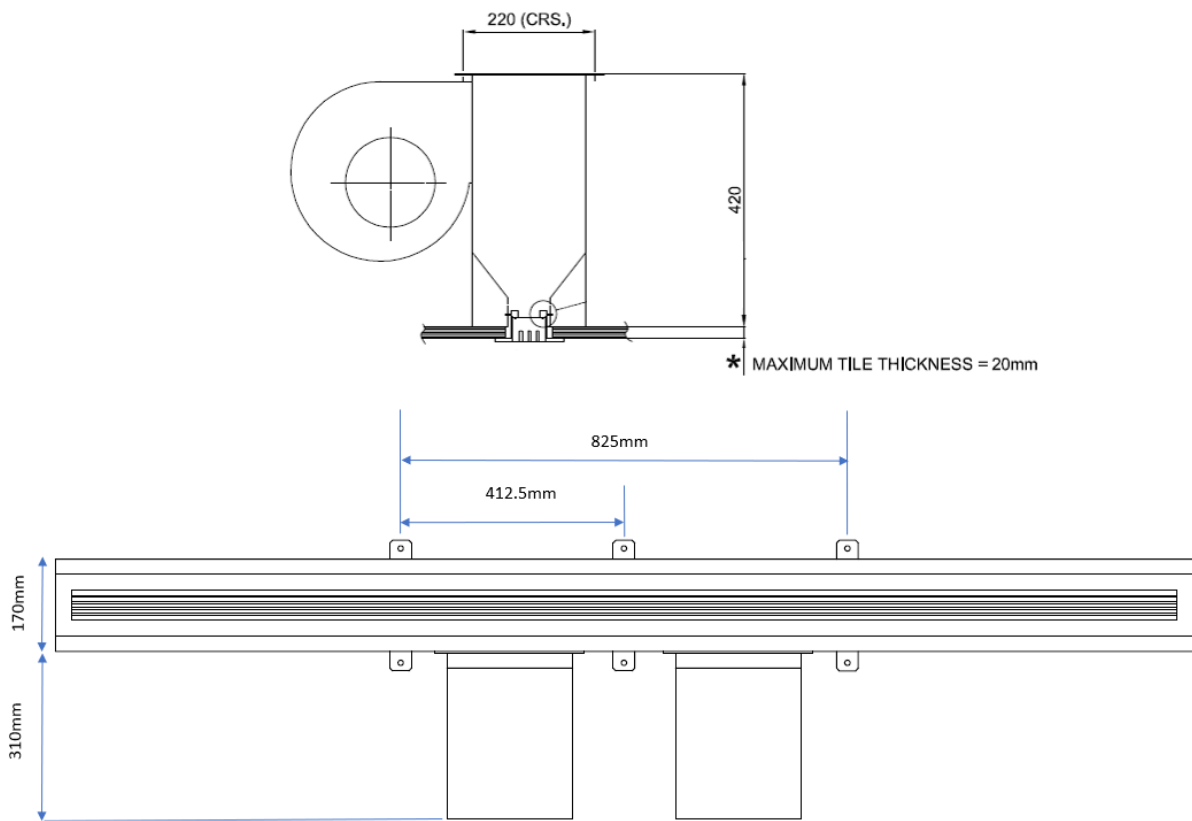
Wiring & Controls - LPHW Units

- Wired to: Enetec 18 - Water - AC Fans
- Complete with wall mounted control panel.
- Single phase supply (230/1/50)

Wiring & Controls - Electric Units

- Wired to: Enetec 18 - Electric - AC Fans
- Complete with wall mounted control panel.
- Three-phase supply (415/3/50)

Dimensions - Type A



Dimensions - Type D

