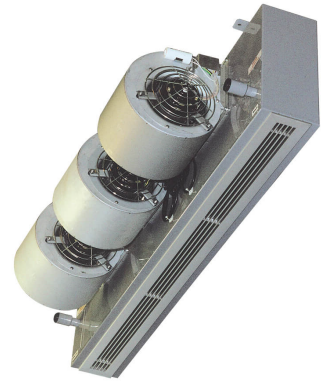




To discuss your requirements in more detail please contact one of our experts on freshthinking@envirotec.co.uk or call 01494 525 342

Envirotec Air Barrier

The Envirotec Air Barrier – EAB is a powerful range of air curtain units designed for use in a wide range of applications. Working closely with a major high street retailer and BSRIA, Envirotec designed and developed this powerful air curtain unit to provide an effective and efficient barrier for doorways and entrances. Combined with high heating outputs, the EAB air curtain unit is an important element of your building's heating and ventilation solution.

The EAB air curtain unit is available in a number of versions including recessed, exposed and vertical.

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

Key Features

Mounting Height	4.0m
Standard Lengths	1.5m 1.8m 2.1m
Variants	Ambient Water (LPHW) Electric
Colour	Casing & grilles powder coated RAL 9010 - Pure White

- ✚ Powerful air flow & heat output
- ✚ Three versions available;
 - Type A - chassis unit
 - Type B - cased unit
 - Type C - recessed unit
- ✚ Suitable for a wide range of applications
- ✚ Vertical version available - VEAB
- ✚ Bespoke options include;
 - Any RAL paint colour
 - Sizes
 - Controls

Envirotec Air Barrier - Variants

The EAB range of air curtains are available in three different model variants.

EAB TYPE A



A chassis unit designed to be mounted in a false ceiling with return air from the ceiling void. Ideal for discrete applications with only the linear discharge grille visible.

This model can also be used as an exposed unit for when a more industrial appearance is demanded.

EAB TYPE B



A cased unit developed for fully on view applications. Incorporating a 'non-vision' return air grille on the rear face and a linear discharge grille on the bottom, the Type B can be mounted directly against a wall or ceiling, as well as being supported on drop rods.

EAB TYPE C



Another recessed unit designed to be installed into modular ceilings or bulkheads with 'Uni-Strut' mounting rails to accommodate drop rods. A combined return air /supply air, hinged-core egg-crate grille provides access to the internal components for routine maintenance.

Specification

Unit Construction

- All units are constructed using powder coated zinc-plated steel
- Units supplied with grilles and casework finished to RAL 9010 (Pure White)
- Units can be finished in any commercially available RAL colour subject to additional cost. Please contact our sales office for details.

Mounting Height

- All variants can be mounted up to 4.0m when operating at high speed
- Can be mounted at 2.2m when operating at low speed
- All variants can be mounted using drop rods

Grille Details

- Type A: Linear discharge grille.
- Type B: Non-vision return air grille on the rear, discharge grille on bottom
- Type C: Hinged-core egg-crate grille.
- All grilles can be powder coated to suit client requirements

Filters

- Type A: Unfiltered.
- Type B: 50mm disposable type
- Type C: 50mm disposable type

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.

Two EAB 2100W Type C Air Barriers, designed to provide a continuous air barrier 4200mm wide



Technical Specification

EAB TYPE A

Unit Type	Unit Dimensions					LPHW Heating						Electric Heating	
	Length	Width	Height	Weight	Air volume	Output	Output	Flow Rate	Flow rate	WPD	WPD	Output	Output
	mm	mm	mm	kg	m³/s	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
EAB 1500 TYPE A	1500	510	420	62	1.11	27.3	22.5	0.607	0.502	12.3	8.5	18 [#]	18 [#]
EAB 1800 TYPE A	1800	510	420	70	1.48	36.2	29.6	0.805	0.659	22.9	15.7	18 [#]	18 [#]
EAB 2100 TYPE A	2100	510	420	80	1.85	44.8	36.7	0.997	0.817	37.2	25.5	24 [*]	24 [*]

EAB TYPE B

Unit Type	Unit Dimensions					LPHW Heating						Electric Heating	
	Length	Width	Height	Weight	Air volume	Output	Output	Flow Rate	Flow rate	WPD	WPD	Output	Output
	mm	mm	mm	kg	m³/s	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
EAB 1500 TYPE B	1500	630	480	87	1.11	27.3	22.5	0.607	0.502	12.3	8.5	18 [#]	18 [#]
EAB 1800 TYPE B	1800	630	480	99	1.48	36.2	29.6	0.805	0.659	22.9	15.7	18 [#]	18 [#]
EAB 2100 TYPE B	2100	630	480	112	1.85	44.8	36.7	0.997	0.817	37.2	25.5	24 [*]	24 [*]

EAB TYPE C

Unit Type	Unit Dimensions					LPHW Heating						Electric Heating	
	Length	Width	Height	Weight	Air volume	Output	Output	Flow Rate	Flow rate	WPD	WPD	Output	Output
	mm	mm	mm	kg	m³/s	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low	Fan High	Fan Low
EAB 1500 TYPE C	1498	598	460	78	1.11	27.3	22.5	0.607	0.502	12.3	8.5	18 [#]	18 [#]
EAB 1800 TYPE C	1798	598	460	92	1.48	36.2	29.6	0.805	0.659	22.9	15.7	18 [#]	18 [#]
EAB 2100 TYPE C	2098	598	460	108	1.85	44.8	36.7	0.997	0.817	37.2	25.5	24 [*]	24 [*]

Electric Heater Options
18kW heater is standard on the EAB1800E. 9, 12 & 15kW heaters also available
* 24kW heater is standard on the EAB2100E. 12, 15, 18 & 30kW also available

EAB DOOR CURTAIN MOTOR RATINGS

	MOTOR SUPPLY	TOTAL F.L.C. Amps
1500 EAB DOOR CURTAINS	230/1/50	5.7
1800 EAB DOOR CURTAINS	230/1/50	7.6
2100 EAB DOOR CURTAINS	230/1/50	9.5

Note: Units with electric heaters fitted would usually require a three-phase supply

Wiring & Controls - Ambient Units

- Wired to: GSS634/A
- 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)

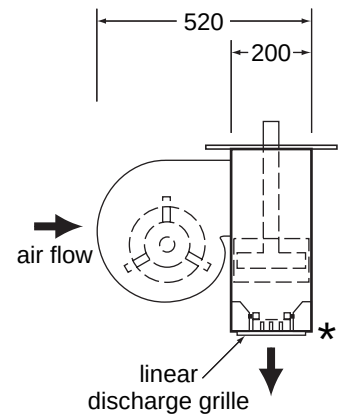
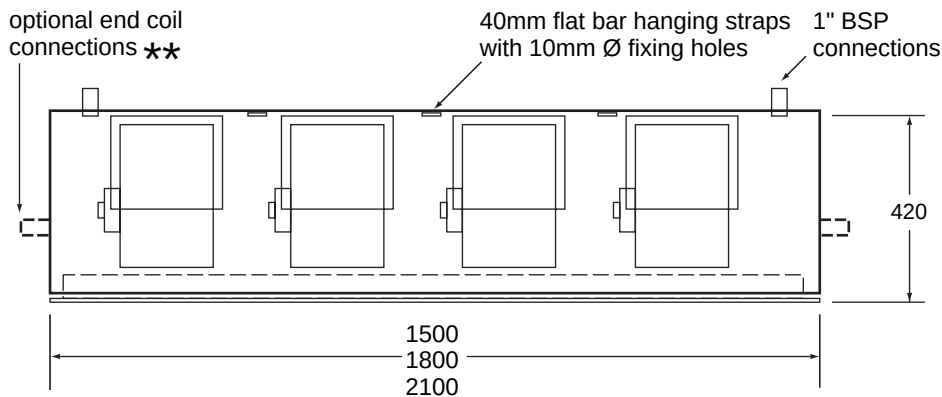
Wiring & Controls - Electric Units

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

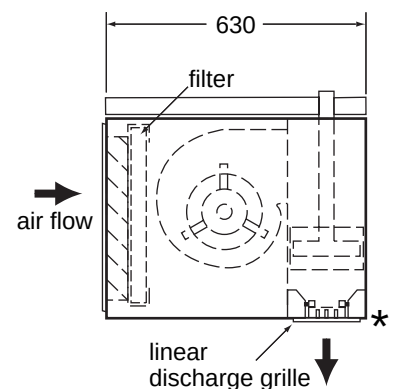
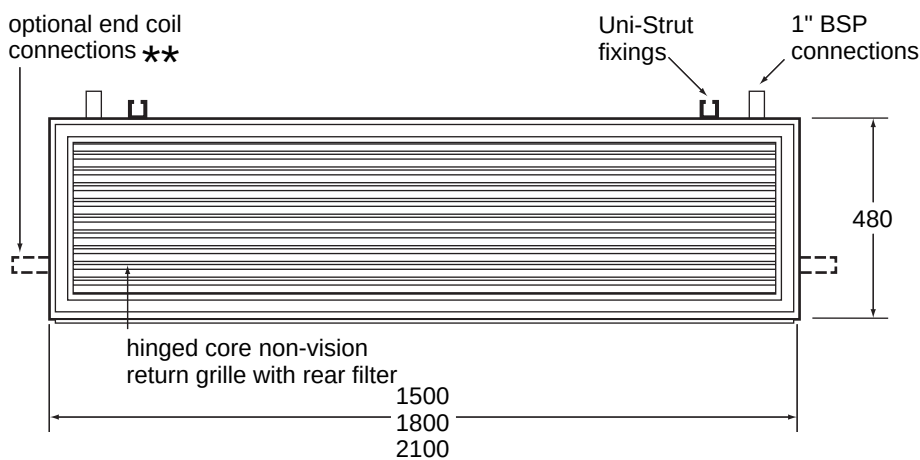


Envirotec Air Barriers - Dimensions

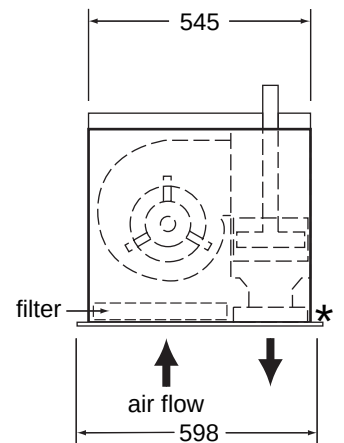
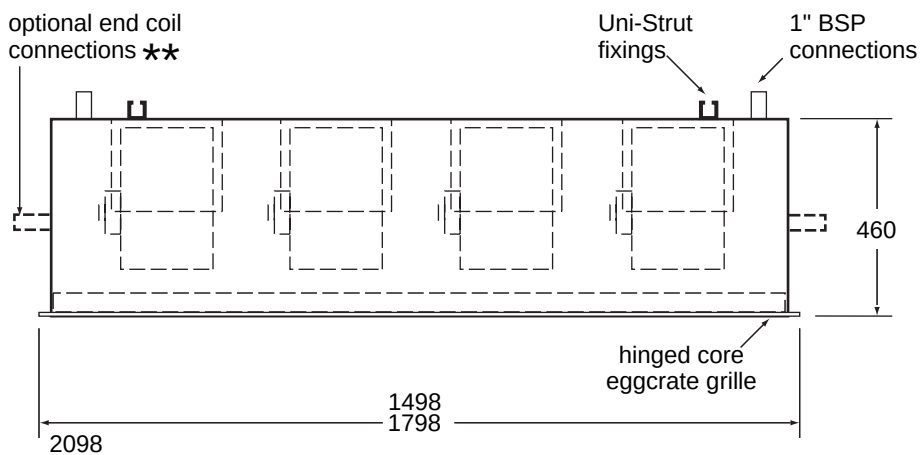
EAB Type A



EAB Type B



EAB Type C



* This side nearest door.

** Position of coil connections to be specified at time of order.

All dimensions in millimetres.