

# envirotec

Series HC

## HC Mini-screen/convector



The envirotec HC range of recessed warm air Mini-screens/Convectors are only 240mm deep, are available in both hot water and electric forms and in three sizes.

They are designed for concealed fixing with only the grille on view, replacing standard ceiling tiles. The maximum recommended mounting height is 3.0 metres (10 feet).

Units have full sized eggcrate type grille with hinged core for installing inside or outside the "T"bars whilst the rest of the unit is concealed above the ceiling.

All units are supplied as standard with an internal discharge spigot to provide an enhanced discharge velocity for use as a mini door curtain. Should, however, you require the unit to function as a convector, the spigot can be easily removed.

A 50mm high efficiency throwaway type filter is fitted as standard. This not only ensures that the supply air is filtered, but also protects the internal components, therefore minimising maintenance.

Changing of filter together with access for maintenance is readily gained via the hinged combined return/discharge eggcrate grille.

**a range of air conditioning equipment including:-  
envirolators, door curtains, smoke fans,  
axial & bifurcated fans, air handling units,  
fan coil units, twin extract units, custom built units.**

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# SPECIFICATIONS

## FANS

Centrifugal type fan(s) running at 6 pole speed for quietness of operation, producing approx. unit outlet velocity of 7.5 m/s for screen effect, or 3.5 m/s (with discharge spigot removed) for convector.

## MOTORS

220/240 volt, single phase, 50Hz running at 850 r.p.m. resiliently mounted into fan casing and with "sealed-for-life" bearings. Manufactured to latest European standards.

HC 2 0.15 kw, F.L.C. 0.8 amps, S.C. 1.3 amps

HC 3 0.15 kw, F.L.C. 0.8 amps, S.C. 1.3 amps

HC 4 0.30 kw, F.L.C. 1.6 amps, S.C. 2.6 amps

## UNIT CONSTRUCTION

Zinc plated mild steel, finished in gloss white paint. (Alternative colour finishes available on request). Side hanging straps are included within the overall height of 240mm and are suitable for hanging via wires, drop-rods or direct fixing into slab. A removable internal discharge spigot is fitted but can be easily removed if unit is required as a convector.

## HEAT EXCHANGER

**HOT WATER - TYPE "W"** - Aluminium fins bonded to copper tubing, pressure tested to 22 bar and terminating in 15mm plain copper tails. Drain and vent points are fitted and a low temperature cut-out is available if required. Internally wired to GSS 544/SW and supplied with fused socket for protection and isolation.

**ELECTRIC - TYPE "E"** - Two stage electric open coil type heater element mounted on fully insulated supports, fitted with high temperature cut-out protection and thermostat facility. Wired to GSS 575. A separate wall mounting switch for remote fixing is also included.

## RETURN/DISCHARGE GRILLE

Combined return air/discharge air eggcrate type grille, constructed from aluminium. Grille readily hinged by touch latches to facilitate access to fan and filter for maintenance.

Finished in gloss white as standard, the overall grille flange size is 598mm x 598mm for the HC 2, 898mm x 598mm for the HC 3 and 1198mm x 598mm for the HC 4.

## FILTER

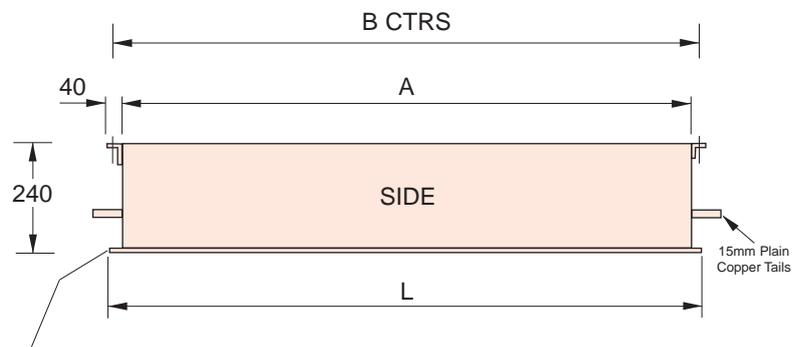
50mm throwaway type located behind the grille, size 495mm x 395mm (HC 2), 840mm x 395mm (HC 3) and 1140mm x 395mm (HC 4). Washable filters can be fitted if preferred.

## NOMINAL OUTPUTS

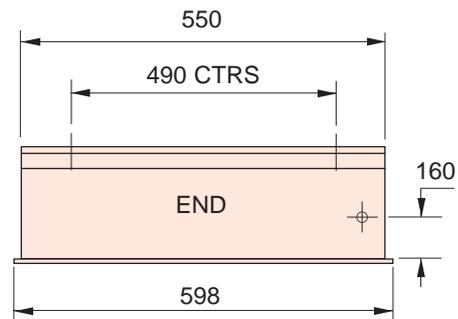
MODEL	LPHW HEATING (KW)	HYDRAULIC RESISTANCE (KPa)	FLOW RATE (L/s)	ELECTRIC HEATING (Kw)	APPROX.WT (Unpacked) (Kg)
HC 2*	3.00	0.42	0.07	3.0	20
HC 3*	5.00	1.00	0.10	3.0	24
HC 4*	8.00	3.18	0.18	6.0	31

\*W, or E should be suffixed to the model reference to denote Water or Electric.

LPHW Output is based on water at 82°C flow/71°C return with entering air at 10°C.



Hinged core eggcrate grille for installing above or below "T" bars.



MODEL	L	A	B	FILTER SIZE
HC 2*	598	550	590	495 x 395 x 50
HC 3*	898	850	890	840 x 395 x 50
HC 4*	1198	1150	1190	1140 x 395 x 50

### Optional Extras

Special paint finishes, wiring to customers specification, control panels with timeclock etc., washable filters, low temperature cut-out, regulating valves, adjustable deflection grille, different outputs or special sizes. An economy version of this unit is also available (type CC). Please refer to separate brochure.