

envirotec

Series HD & HR

Small Air Handling Units



The 'ENVIROTEC' series H/D range of Small Air Handling Units are suitable for Duct or Void mounting and have bottom access. Alternatively, they can be floor mounted with top access.

Series H/R are fully re-circulative units terminating in a Double Deflection grille and are particularly suitable for stockrooms & similar areas.

They can be provided with Low, Medium or High pressure hot water coils, steam coils, chilled water or direct expansion coils and electric heater batteries in any combination, thus providing maximum versatility. Standard units have bottom access with quick release fasteners to facilitate easy filter and fan access. Safety chains are fitted as standard.

All units are acoustically/thermally lined for maximum quietness of operation and both fans and motors incorporate 'sealed-for-life' bearings to minimise maintenance.

**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

Double Inlet, Double Width, forward curved centrifugal type, with dynamically balanced impellers to ensure smooth running on ground steel shafts and 'sealed -for-life' bearings. Backward curved and single inlet fans can be provided if required or if the selected duty necessitates same. All standard units are belt driven with the exceptions of sizes 1 & 2 which employ directly driven fans.

MOTORS

Motors are predominantly of British Manufacture, totally enclosed fan ventilated, class 'F' insulation, squirrel cage type, having, 'sealed-for-life' ball bearings. They conform to BS5000 parts 10, 99 & IEC 34-1 electrically & BS4999 parts 105, 107, 141 & IEC 72, 34-5 & 34-7 mechanically. Special application motors such as two-speed, speed regulatable & EExd Flameproof can also be provided. All standard units have 415/3/50Hz three phase motors with the exception of sizes 1 & 2 which are available in 240/1/50Hz single phase only.

COILS

Coils are constructed from Aluminium fins bonded to copper tubing and are pressure tested to 22 bar (320 p.s.i.). Each coil will be selected to achieve the required duty thus securing the most economical choice. Special all copper coils or copper with electro tinning after manufacture can be supplied if required. All coil connections are located on the Right Hand Side in direction of airflow unless otherwise requested and steam coils have one connection located either side. It should be noted that not all coils have drain and vent plugs fitted and these should be provided in the supply and return pipework.

UNIT CONSTRUCTION

Units are manufactured in one section from zinc plated or galvanised mild steel and finished in high quality powdercoat to BS00A05 (Goose grey). Bottom access units are provided with top hanging straps for drop rod suspension whilst top access units have bottom angles for fixing down. Alternative colour finishes or fixing arrangements can be provided on request.

ACCESSORIES AND OPTIONS

Return air and discharge air grilles, filters to customers' specification, attenuators, manometers, air pressure differential switches, external anti-vibration mountings and flexible connectors can be provided.

Units can be supplied in different formats if required. These include Roof Mounted (prefixed X) with either channel or curb base, as single or twin extract fans (suffixed E or E T) or special vertical units (pre-fixed V).

ELECTRIC HEATER BATTERIES

Electric Heater Batteries are the open coil type mounted on fully insulated supports. They are supplied complete with high temperature cut-out protection for wiring into the control circuit and are generally available in the Kilowattage and number of steps required.

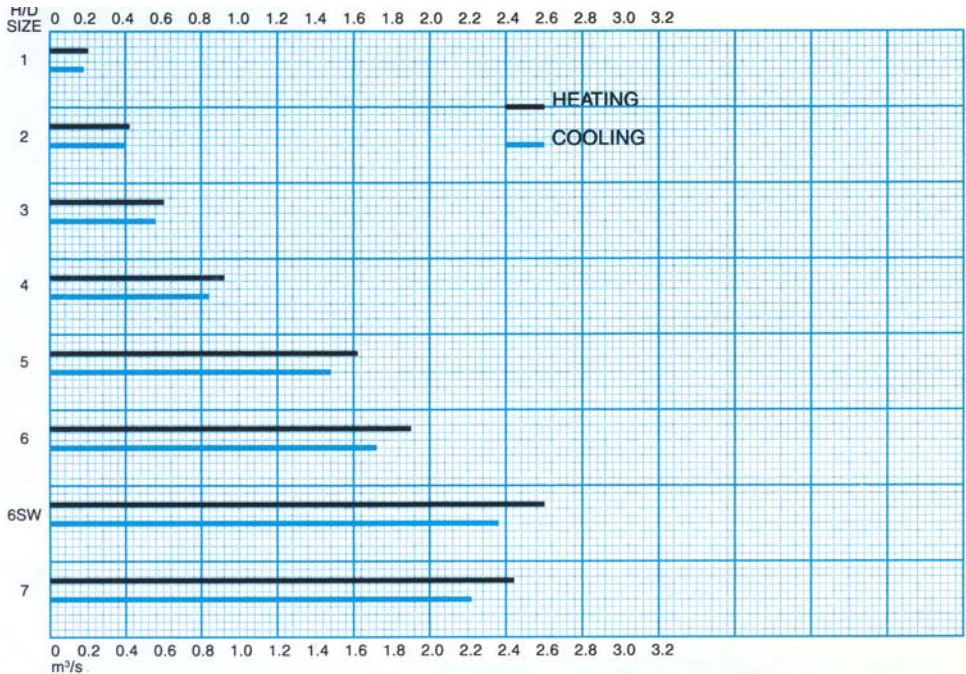
FILTERS

Standard units incorporate 25mm filters, throwaway type, but all filters, throwaway, washable or synthetic, can be fitted in 25mm, 50mm or 100mm sizes.

If required, bag filters can be provided, but this will increase the length of the unit as a separate section is required.

ENVIROTEC'S policy being one of flexibility, non-standard colour finish, special voltage or application motors and special size or duties can all normally be accommodated.

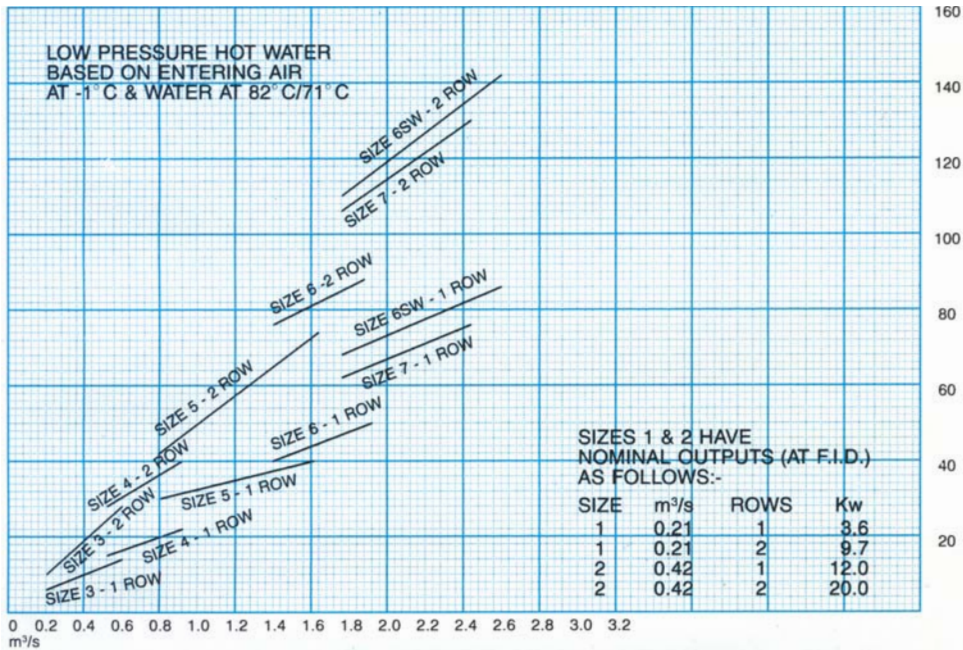
QUICK SELECTION GRAPH



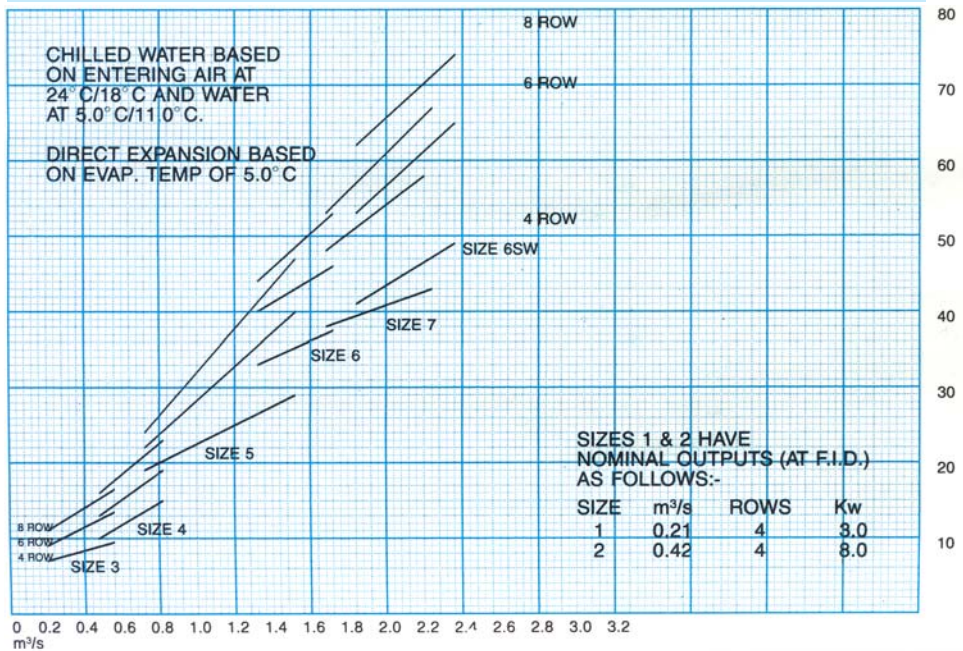
NOTES

- 1) Larger volumes are covered by AH and ENVIROPAC ranges.
- 2) Similar units & double skinned types with side access are also available (please refer to separate data sheet).
- 3) Maximum volumes are based on the following velocities through the coils/filters etc.
Heating 2.75m/s
Cooling 2.5m/s

TYPICAL HEATING COIL SELECTION 1 & 2 ROW HEATING COILS

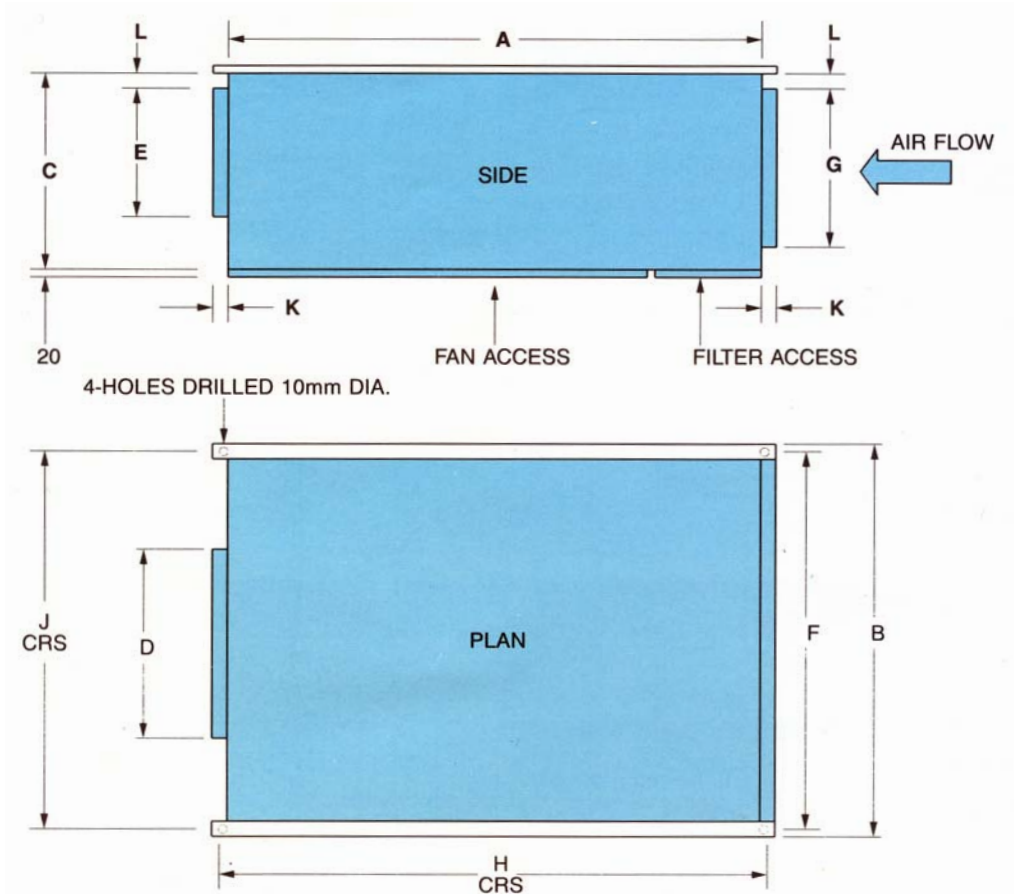


TYPICAL HEATING COIL SELECTION 4, 6 & 8 ROW COOLING COILS



For differing outputs or coil conditions please refer to our Sales Office.

DIMENSIONS



UNIT	OVERALL			OUTLET		INTLET		CENTRES		K	L
	A	B	C	D	E	F	G	H	J		
SIZE No. 1	915	460	310*	305	250	406	254	955	426	40	25
No. 2	915	915	310*	610	250	865	254	955	880	40	25
No. 3	1200	915	440	410	380	865	390	1240	875	40	25
No. 4	1200	1070	490	510	430	1020	440	1240	1030	40	25
No. 5	1200	1425	590	610	530	1375	540	1240	1385	40	25
No. 6	1400	1425	690	750	530	1375	640	1440	1385	40	25
No. 6SW	1400	1885	690	750	530	1835	640	1440	1845	40	25
No. 7	1400	1620	780	750	530	1570	730	1440	1580	40	25

- *NOTES:** a) H/D 1 (SH) & H/D 2 (SH) Dimension C = 385
 b) H/D 1 & H/D 2 have a one piece access panel
 c) For dimensions of units in other formats including top access, please refer to separate data sheet

OTHER FORMATS AVAILABLE*



IN-DUCT AHU



IN-DUCT EXTRACT



TWIN IN-DUCT EXTRACT



FULLY RECIRCULATIVE



ROOF AHU



ROOF EXTRACT



TWIN ROOF EXTRACT



SPECIAL VERTICAL

*May be subject to size changes

DESIGN CHANGES RESERVED