

AIR HEATERS

HV RANGE



HV RANGE APPLICATION

The HV range of air heater is suitable for building service applications. The duct is manufactured from galvanised steel sheet. Duct dimensions are to suit your requirements.

The enclosure is rated to IP41 and is manufactured from galvanised steel.

Maximum kW loadings depend on application and are available in single phase (up to 6kW) and three phase configurations.

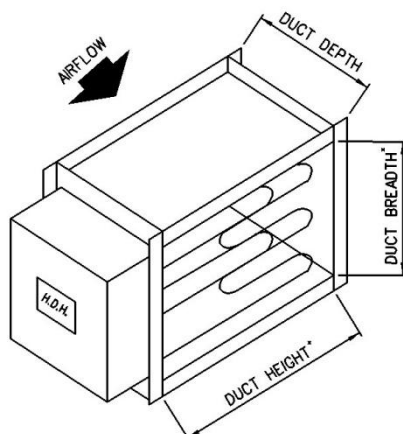
STANDARD RANGE

The standard HV range of air heater is fitted with high quality Nicalloy 800 elements with an average watts density of 3.4 W/cm^2 (22 W/in^2).

It has been our experience that each installation requires specific duct dimensions which should be specified at the time of order.

For industrial or specialist applications please refer to our AR range.

LIST No.	kW Load @ 240/415V	No. OF CIRCUITS	DUCT SIZE (HEIGHT x BREADTH)
HV101	6	1	Please Specify When Ordering
HV102	9	1	Please Specify When Ordering
HV103	12	2	Please Specify When Ordering
HV104	18	2	Please Specify When Ordering
HV105	24	2	Please Specify When Ordering
HV106	36	4	Please Specify When Ordering
HV107	48	4	Please Specify When Ordering
HV108	60	4	Please Specify When Ordering
HV109	72	4	Please Specify When Ordering
HV110	90	6	Please Specify When Ordering



MOUNTING

Heaters are suitable for mounting on square or rectangular ducts. For round ducts adapter sections can be supplied.

'Stab-in' type heaters, that do not come with a duct, can be supplied. The heater enclosure fits directly onto an opening in the duct. This is useful for installing air heaters into existing duct work.

As standard, the duct flanges are 40mm wide and are normally left undrilled to be drilled on site, however, if dimensions are supplied the flanges can be supplied drilled.

Note: It is recommended that the enclosure is mounted at the side of the duct rather than on top, as this will reduce heat penetration into the enclosure.

TEMPERATURE CONTROL

All standard models are supplied with either a pre-set over temperature cut-out thermostat, set at 85°C rated 10 Amps, or an adjustable over temperature cut-out thermostat, with a range of $0-320^\circ\text{C}$ rated 16 Amps.

Alternative thermostat ranges are available. PT100 (RTD) and thermocouple sensors are also available. Please contact our Technical Department.

Where the current consumed exceeds the thermostat rating, the heater must be wired through a contactor switch. A contactor switch must be fitted on all three phase supplies.

Control panels can be supplied incorporating all necessary controls. Please refer to our TC range.

OPERATING TEMPERATURE

Standard models have a maximum design temperature of 85°C . For higher operating temperatures, please refer to the AR range of industrial air heater.

VOLTAGE

Single phase heaters from our standard range are designed to operate at 230/240V and three phase heaters at 400/415V.

Non-standard models can be supplied designed to suit operating voltages from 110V to 480V AC or DC. Please contact our Technical Department.

CONSTRUCTION

Heaters are manufactured generally to BS7798.

Elements are crimped into ferrules (glands) and the assembly is bolted to the enclosure. Individual elements can therefore be replaced, once the heater has been removed from the duct.

The duct is manufactured from galvanised mild steel sheet.

The terminal enclosure is rated to IP41 and is constructed from galvanised mild steel sheet

COMMON VARIATIONS

Please contact our Technical Department for further details.

- Various operating voltages in single or three phase star or delta.
- Insulated Duct.
- Various thermostat ranges or PT100 (RTD) or thermocouples.
- Air flow switch.
- Supplied complete with fan.
- Stab-in heater only.