

# Ceramic Infrared Heaters

The following information should be considered when installing Ceramic Infrared Heaters.

Installation should always be carried out by a qualified electrician or a competent person in accordance with current electrical regulations, protected by a suitably rated isolator and fuse or type C mcb.

- The heaters should always be installed using the mounting brackets provided to ensure adequate clearance from the wall.
- A minimum air gap of 450mm should always be allowed between the top of the heater and the ceiling or roof.
- A safety distance of at least 1.5m should always be left in front of 1500w and 3000w heaters. Allow 2m for 4500w heaters.
- Ensure no flammable material can come into contact with the heater.
- Heaters should not be installed in areas where hazardous vapours may be present as defined in BS5345
- It is recommended the heaters are operated with the element guard in place. It must always be fitted to units mounted below 2.2m.
- The safety guards are only intended to prevent large objects from directly hitting the ceramic emitters. Some applications will necessitate additional precautionary measures.
- The heater should only be installed in an indoor or weather protected environment.

**W. Tombling Ltd**

**Ceramic Infrared**

**Wall Mounted Heater**

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**THESE INSTRUCTIONS SHOULD BE READ BEFORE  
INSTALLATION AND RETAINED BY THE USER FOR  
LATER REFERENCE**

Before installing this heater, please read all the enclosed instructions carefully and follow any recommendations regarding installation and use.

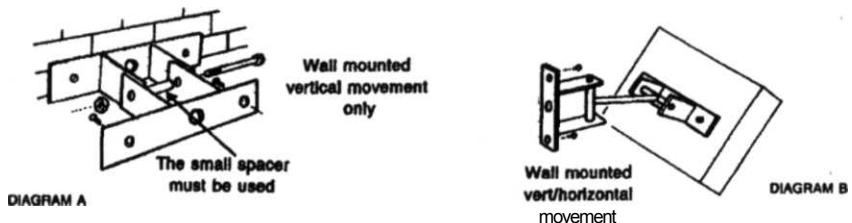
### Electrical installation

The HC range comprises 1, 2 and 3 Ceramic element Heater Models:

- One and two-Ceramic single phase heaters are factory fitted with high temperature silicon rubber flexible cable conforming to BS 6500 having a temperature rating of 180°C continuous.
- Three-Ceramic heater models are supplied without cables, and can be configured for single or 3 phase use. Use only silicon rubber flexible cable conforming to BS6500 having a temperature rating of 180°C.
- Appliances must be earthed.
- It is advised that Type 3 (Type C) MCBs are used. In multi-heater single phase installations, to prevent the initial inrush current causing nuisance tripping, MCBs over rated by 60 - 70% may be required.

The heater has been packed with a separate wall mounting bracket ready for attachment to the heater.

Place the heater face down and attach one 'U' bracket to back. Make sure cable gland is towards the bottom of the heater



### Location

- Heaters should be angled at 30° to 45° from the vertical.
- There must always be a minimum clearance of 450mm between the top of the heater and the ceiling.

### Wall mounting

- Decide whether vertical movement only (Diagram A) or vertical/horizontal movement (Diagram B) is required for correct positioning of heaters and assemble as shown.
- Avoid mounting heaters on structures liable to vibrate.
- Recommended mounting heights and safety distances should always be observed.

## Recommended mounting heights

Model	Wall mounting Height (m)			Safety distance from Heater (m)
	Minimum	<b>Recommended</b>	Maximum	Minimum
HC1500	2.2	<b>2.5</b>	3.5	1.5
HC3000	2.8	<b>3.5</b>	4.5	1.5
HC4500	3.0	<b>4.0</b>	5.5	2.0

## Commissioning

- Perform Insulation and Earth Continuity Tests.
- Switch on the heater(s) and confirm that the ceramic elements are operating.
- Ensure each heater aims its warmth into the target area by adjusting the heater angle(s) as necessary, then tighten the bracket bolts when satisfactory coverage is achieved.
- The user/customer should be made aware of all aspects of operation and safety and is strongly advised to retain these instructions for future reference.
- In unoccupied premises it is recommended the heating system is switched off and isolated from the electrical supply.

## Maintenance

Ceramic heaters contain no moving parts and therefore require little maintenance.

Depending on the environmental conditions heaters should be regularly inspected, (*at least every six months*), for a build up of dust and dirt on the ceramic emitters and reflectors which can cause overheating and premature emitter failure.

## Before any maintenance work is carried out

- Allow the heater case and element to cool to avoid injury.
- Isolate the heater(s) from the electrical power supply.

## Spares

Spare ceramic elements and reflectors are available from your supplier.