

# Quartz Infrared Zone Heaters

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

This heater should only be installed by a competent person and in accordance with the current edition of the IEE Wiring Regulations (BS 7671 Requirements for Electrical Installations) and any applicable statutory regulations.

The heater must be preceded by an all pole isolating switch, 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 1m should always be left in front of a 1.5KW heater. Heaters of 3KW and 4.5KW should have a safety distance of at least 1.5m
- You also should ensure no flammable material could 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 be operated with a guard in front of the lamp and should always be fitted to units mounted below 2.2m
- The safety guards are only intended to prevent large objects from directly hitting the lamps. Some applications will necessitate additional precautionary measures.
- The heater should only be installed in an indoor or weather protected environment.

The essential element of the heater is the halogen filled quartz linear lamp with a tungsten element. This operates at about 2200°C and is housed in a ruby quartz sleeve to filter out the white light and emit short wave infrared radiant heat. The lamp operates at full output almost instantly and emits a radiant energy of 1.2microns.

**Quartz heaters are recommended by The Electricity council and Building Services Research Association for General space heating, Zone heating and localised spot heating.**

This product conforms to EU Directive 2002/96/EC.



This appliance bears the symbol of the crossed waste bin. This indicates that, at the end of its useful life, it must not be disposed of as domestic waste, but must be taken to a collection center for waste electrical and electronic equipment. It is the user's responsibility to dispose of this appliance through the appropriate channels at the end of its useful life. Failure to do so may incur the penalties established by laws governing waste disposal.

## W. Tombling Ltd

### HQ Gold Series Quartz

### Infrared Heaters

HQ1500G - 1500w 230V

HQ3000G - 3000w 230V

HQ4500G - 4500w 230V

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THESE INSTRUCTIONS SHOULD BE CAREFULLY READ BEFORE  
INSTALLATION AND RETAINED BY THE USER.

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

### **Electrical installation**

The HQ range comprises 1, 2 and 3 lamp models.

- One and two-lamp heater models are factory fitted with high temperature silicon rubber flexible cable conforming to BS 6500 having a temperature rating of 180°C continuous (H05SS-F).
- Three-lamp heater models are factory wired according to the order specification i.e. single phase or 3 phase and neutral, but are supplied without a cable. Use high temperature silicon rubber flexible cable conforming to BS 6500 having a temperature rating of 180°C continuous.
- Appliances must be earthed.
- In multi-lamp single phase installations, in order to prevent the initial inrush current causing nuisance tripping, use type C MCBs. Additionally, it may be necessary to over rate them by 60 - 70%.

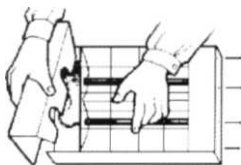
The HQ fitting has been packed with a separate wall mounting bracket.

**Please remove the foam packing from behind the lamp(s) before use.**

**Do not touch the lamps themselves. If you do, use methylated spirits or isopropal alcohol to clean them. Failure to do so will result in premature lamp failure.**

### **Lamp Installation or Replacement**

- 1) Undo the screws on each end cover, remove the covers and safety guard.
- 2) Carefully remove the lamp from its box, centre lamp to brackets with leads pointing upwards.
- 3) Insert each end of lamp halfway under each spring clip.
- 4) Push each end of lamp with equal thumb pressure fully into clips.



N.B. Any inadvertent finger marks on the tube glass sleeve *must be removed* using methylated spirits or isopropal alcohol on a soft cloth

- 6) Connect the lamp leads to the connector blocks, and tighten the nuts/screws
- 7) Re-assemble heater by fitting the the guard and end-covers.
- 8) Ensure no wires are trapped under the end-covers before tightening the screws.

### **Mounting**

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

- Avoid mounting heaters on structures liable to vibrate.
- The recommended mounting heights and safety distances must be observed.
- To attach to a wall use the supplied bracket.
- To suspend the heater, screw mounting eyes or hooks into to the four M6 thread inserts on the rear of the heater.

### **Recommended wall mounting heights**

Model	Wall mounting Height (Metres)			Safety distance from Heater (mts)
	Minimum	Recommended	Maximum	Minimum
HQ1500G	2.2	2.5	3.0	1.0
HQ3000G	2.2	2.5	3.5	1.5
HQ4500G	3.0	3.5	4.5	1.5

### **Commissioning**

- Perform Insulation and Earth continuity Tests.
- Switch on the heater(s) and confirm that the lamp(s) are operating.
- Ensure each heater aims its warmth into the target area by adjusting the heater angle(s) then tighten the bracket bolts when satisfactory coverage is achieved.
- Check that the lamp(s) remain in a horizontal plane for all angles of heater(s).
- Lamps must only be operated within 5° of the horizontal plane.
- The user/customer should be made aware of all aspects of operation and safety and is strongly advised to retain these instructions for reference.
- In unoccupied premises it is recommended that the heating system is switched off and isolated from the electrical supply.

### **Maintenance**

Quartz Heaters contain no moving parts and therefore very little maintenance, other than to ensure that there is not an excessive build-up of dust/dirt on the reflectors or lamps, as this can cause overheating and premature lamp failure.

Depending on siting conditions, heaters should be inspected, at least once a year.

### **Before any maintenance work is carried out**

- Allow the heater case/lamp to cool to avoid injury.
- Always isolate the heater(s) from the electrical power supply.
- Re-read these instructions prior to lamp replacement.