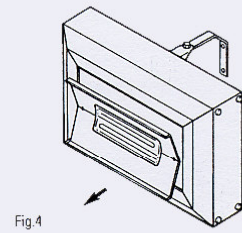
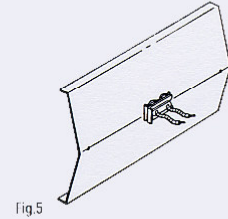


# ELECTRIC RADIANT CERAMIC PLAQUE HEATERS

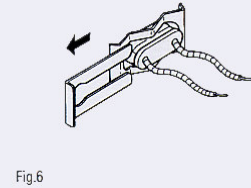
5. Gently pull out the element and reflector assembly (Fig. 4).



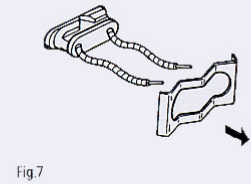
6. Release the element assembly from the terminal block by loosening the two screws at the top of the block (Fig. 5).



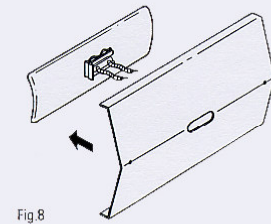
7. Using a small hammer, gently tap off the retaining clip (Fig. 6).



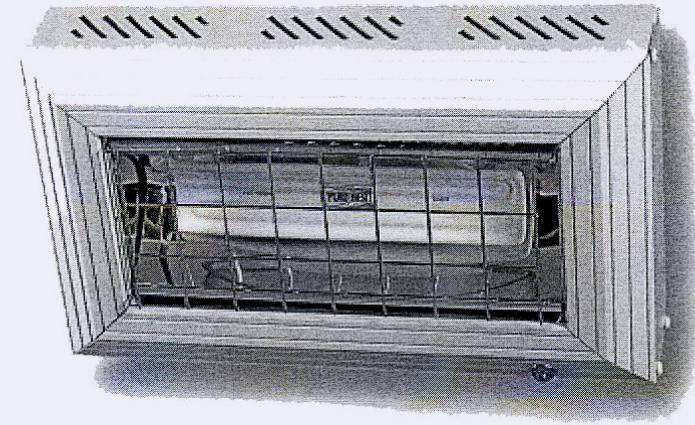
8. Remove the spring from the rear of the reflector (Fig. 7).



9. Separate the element from the reflector (Fig. 8).



10. Replace in reverse order.



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**DOC REF:**

## Introduction

The AMBI-RAD range of ceramic electric plaque heaters contain long-life ceramic emitters which are highly efficient and durable. Their simple bracketry makes them easy to install. Each is fitted with a safety guard and neon power indicator. The reflector enables the Plaq-Heater to project the heat over a greater distance than any other heater of its type.

**Please read the following instructions carefully before use. The safety of this heater is guaranteed only by its correct usage in accordance with these instructions, therefore it is recommended that they are retained for future reference.**

### Caution

- Before using this appliance:
  - Check that the voltage indicated on the type plate corresponds to the mains supply voltage.
  - Ensure that the heater has been securely fixed to the mounting bracket on the wall.
- Disconnect from the mains during installation, cleaning and/or element replacement and ensure that the element is cool.
- Do not use an extension cable with this product.
- Keep the mains cable away from the body of the heater which will become hot during use.
- Do not cover or obstruct the heater when in use.
- Do not use the heater in a damp area, for example a bathroom or near to a swimming pool.
- Ensure that children do not tamper with the heater.
- Do not insert any object through any slot or opening in the heater.

**N.B.** This heater has not been designed for outdoor use.

**Warning - this appliance must be earthed.**

## Specifications

Table 1 TECHNICAL DATA

Part No.	Voltage (V)	Elements x Power (kW)	Total Power (kW)	Current (A)	Minimum height from floor (m)	Minimum distance from ceiling (m)	Minimum distance from side wall (m)	Dimensions L x W x D (mm)
PH10	230	1 x 1.0	1.0	4.3	2.1	0.3	1.5	420 x 225 x 115
PH20	230	2 x 1.0	2.0	8.7	2.5	0.5	1.5	420 x 390 x 115
PHL20	230	2 x 1.0	2.0	8.7	2.5	0.5	1.5	885 x 225 x 115
PHL30	230	3 x 1.0	3.0	13.0	3.0	0.5	1.5	1280 x 225 x 115

Use MCB Type 3.

## Installation Instructions


### Wiring

- **Warning – this appliance must be earthed.**
- The single element PLAQUE heater is fitted with 2 metres (6'6") of supply cable, therefore it is not necessary to remove the terminal block cover in order to carry out normal installation.
- If the supply cord becomes damaged, it must be replaced by the manufacturer or its service agent or similar qualified person in order to avoid a hazard.
- All installations must be in accordance with I.E.E safety regulations or equivalent.
- If in any doubt, please consult a suitably qualified electrician.
- Heat resisting cable must be used.

If a domestic 13 Amp socket is used for the power supply, proceed as follows for plug connections. The wires in the mains lead are coloured in accordance with the following code:

Green and yellow:	Earth
Blue:	Neutral
Brown:	Live

Since the colours of the wires in the mains lead of this appliance may not correspond with the markings identifying the terminals in the plug, proceed as follows:

- The wire that is coloured green and yellow must be connected to the terminal in the plug that is marked with the letter E, or by the earth symbol  or coloured green or green and yellow.
- The wire that is coloured blue must be connected to the terminal marked N or coloured black.
- The wire that is coloured brown must be connected to the terminal marked L or coloured red.

For industrial installations, the units must be supplied via double pole miniature circuit breakers (MCB) with instantaneous coefficients in the range 7-10, with a separation of at least 3mm (1/8") between contacts.

1. Remove the silver cover from the base of the heater using a screwdriver.
2. Feed the supply cable through a strain relief bush\* and into the base of the heater.
3. Connect to the terminal block following the colour code described above.
4. Replace the terminal block cover.

**\*Note:** The strain relief bush is to suit the wiring method used on the installation and is not supplied by Ambi-Rad

### Mounting

- The heater must be mounted with the ceramic element in the horizontal position only.
- The heater must be mounted so that the angle of elevation does not exceed 90°. The element must not face upwards and not more than 45° downwards (see Fig. 1).
- The heater is suitable for installation only on normally non-flammable surfaces. Observe the minimum safe distance between the heater body and flammable surfaces when mounting.
- Do not position the heater near to furniture or curtains as this could present a fire hazard.
- Please refer to Table 1 for the recommended mounting height for the heater.
- Keep out of the reach of children.

1. Separate the heater from the mounting bracket by loosening the two nuts at the rear of the heater.
2. Securely fasten the bracket to the mounting surface, using the fixing holes in the bracket.
3. Replace the heater on the bracket using the nut and bolt supplied, and fix in the required angular position by tightening the fixing bolt on the bracket. **Always isolate the heater from the mains supply when adjusting the angular position.**

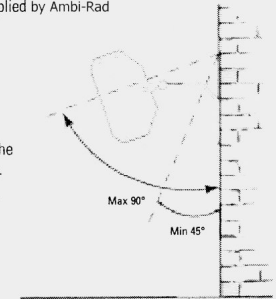


Fig.1

## Maintenance

**In the event of heater failure or for spare parts or advice, please contact the manufacturer in the first instance.**

- Disconnect from the mains before commencing any maintenance procedure, including cleaning.
- To ensure optimum heat effectiveness, it is recommended that after the heater has been used for approximately 80-100 hours, or if a white deposit is seen on the reflector, the guards and elements should be removed to gain access to the reflector, which should be wiped with a lint-free cloth before reassembling.

### Replacing the ceramic element

1. Disconnect from the power supply and ensure the element is cool.
2. Remove the heater from wall fixings before attempting to replace any element.
3. Remove the guard by flexing it slightly (Fig. 2).

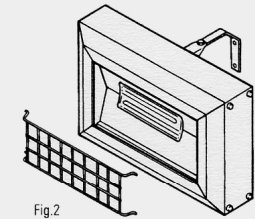


Fig.2

4. Remove the two screws at either side of the ceramic element (Fig. 3).

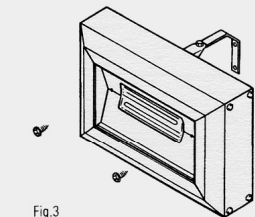


Fig.3