



## Domestic Immersion Heaters Dual Cut-out Series

**P11DC - P14DC - P27DC - A11DC - A27DC**

(Standard 2<sup>1/4</sup>" BSP boss fitting)

Dual cut-out immersion heaters are supplied complete with a rod thermostat, and also feature a separate, 'secondary manual reset safety cut-out' installed directly into the immersion heater head.

They are available in Popular (copper sheathed) with a 1 year UK guarantee or, Aqualoy (Incoloy sheathed) heating elements with a 2 year UK guarantee for use in more aggressive water areas.

All comply with BS EN 60335-2-73:2003 for fixed immersion heaters and are WRAS and CE approved.

**This immersion heater is only to be installed in a system where the heating element is always below water level. The installer must check that there is water in the tank before the immersion heater is switched on.**

### **OPERATING CONDITIONS**

This heater is intended for use only in a domestic hot water system with an Indirect or direct copper cylinder conforming to BS 699, BS 1566, BS 3198 or similar specification and operating at a maximum temperature of 65 degrees centigrade. No warranty is given or implied for uses other than as part of a domestic hot water system.

### **FITTING IN CYLINDER**

The heater is to be fitted to the tank using the washer supplied (or a WRAS approved non-asbestos washer of at least 1.5mm in thickness) and tightened to a minimum torque of 30 Nm. To ensure a 'leak-free' joint, it is important that both flange faces are clean and free from all traces of old washer.

### **WATER HARDNESS**

To obtain maximum heater service life it is important to select the correct type of immersion heater for the local water conditions.

The 'Popular' range of Immersion heaters, where the sheath is of 'COPPER' material, are designed to operate in 'Salt' to 'Neutral' water or where water softening equipment is used.

The 'Anti-Corrosive OR Aqualoy' Immersion heaters, where the sheath is of 'STAINLESS' type material, are designed to operate in 'Neutral' to 'HARD' water where the build-up of limescale is likely to occur.

### **POWER SHOWERS OR SHOWER PUMPS**

Where a second hot water outlet is fitted to the storage cylinder (hot water tank) to supply a shower pump or power shower, the guarantee / warranty does NOT cover defects arising from the operation of the heater when not totally immersed in water.

### **LIMITATIONS**

Any use other than that as listed above will invalidate the product guarantee unless the details of the operating environment are subject to a contractual agreement.

The guarantee / warranty does NOT cover defects arising from accidental damage, misuse, wear and tear, inappropriate selection to suit the local water conditions, incorrect connection or incorrect supply voltage.

### **"CE" MARKING**

The "CE" marking of this product indicates conformance to the following EEC regulations:- Electro Magnetic Compatibility Regulations (EMC), Electrical Equipment (Safety) Regulations / Low Voltage Directive (LVD) and the CE Marking Regulations.

## INSTALLATION INSTRUCTIONS:

1. Connect the heater to the supply with flexible cord of either of the following types:

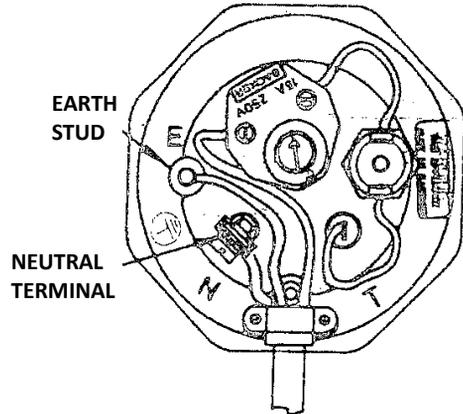
1.5mm<sup>2</sup> 85°C rubber - insulated 85C RS 3-sheathed complying with table 8 of BS6141:1991,  
OR 2.5mm<sup>2</sup> 90C PVC - insulated 85C PVC - sheathed complying with table 15 of BS6141:1991.

2. 11" and 14" length immersion heaters are for cylinder horizontal side entry, and 27" are for cylinder top entry.

3. Insert thermostat into pocket and connect to lead attached to terminal marked 'T'.

4. Wire the supply leads through a double pole switch to the heater as follows:

- 4.1 Green/Yellow to the Earth Stud
- 4.2 Black or Blue to Neutral terminal marked 'N'
- 4.3 Red or Brown to Free terminal on Thermostat.
- 4.4 Fasten flexible cord in the cable clamp



5. An efficient earth must be provided to the earth terminal stud.

6. A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with current wiring regulations.

7. The thermostat incorporates a one-shot cut-out to protect against abnormal situations e.g. low water level or thermostat failure. If the heater fails to operate then professional advice should be sought to ascertain the reason for the failure before the reset button is pressed.

Ensure **ALL** terminal screws are thoroughly tightened before refitting cover

**WARNING : THIS APPLIANCE MUST BE EARTHED**



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