

THERMOWATT

Immersion Heaters with unipolar thermostat and safety disconnection

INSTALLATION AND OPERATING INSTRUCTIONS

WARNING – THIS UNIT MUST NOT BE MODIFIED IN ANY WAY. Thermowatt approval is dependent upon the fitting of the appropriate Thermostat.

INSTALLATION

1. Check your mains power voltage matches the voltage rating indicated on the label of the plastic terminal cover.
2. The immersion heater must be fixed to the cylinder using the gasket provided. Please ensure that the unit is not over tightened into the tank boss. Silicon grease on the O-ring is recommended.

WARNING – THIS HEATER SHOULD ONLY BE INSTALLED IN SYSTEMS WHERE THE ELEMENT IS ALWAYS BELOW WATER LEVEL, SUCH AS A CISTERN FED TANK. ENSURE THERE IS WATER IN THE CYLINDER BEFORE THE IMMERSION HEATER IS FIRST SWITCHED ON. If the heater is allowed to run when the water level is not fully covering the heating element there may be serious damage incurred to the heater, property or persons.

The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

THERMOSTAT INFORMATION

The immersion heater is supplied with a TMS unipolar thermostat with safety disconnection. Functional temperature is factory set to 65°C, with adjustable temperature.

To maintain safety, any replacement thermostat must be of the same type.

RECOMMENDATION: low water temperature is recommended to reduce limestone (CaCO_3) deposit (Not lower than 60°C).

The thermostat in this unit has a safety mechanism able to disconnect the supply line (live conductor) by a single initiating action. It has a safety resettable cut-out mechanism which prevents excessive temperatures. In case the normal sensing device fail, the over temperature safety device will act to limit the water overtemperature.

To reset the thermostat after an intervention of the safety device:

1. Switch off the heater by isolating the power supply
2. Allow the water in the cylinder to cool down sufficiently
3. Remove the cover and press the button on the top of the thermostat.

NB: This cut out is a safety device, if this is found to be operating frequently then we recommend to consult a qualified electrician to investigate the nature of the problem as the

thermostat may need to be replaced. It may be helpful to lower the thermostat setting to avoid unnecessary cut offs.

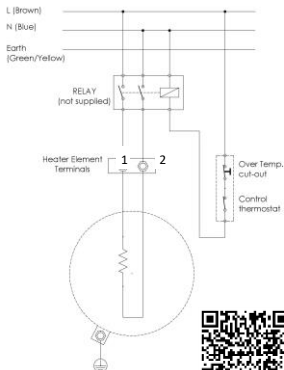
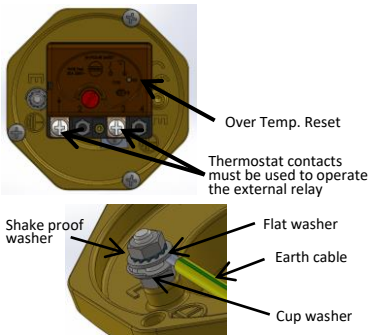
ELECTRICAL CONNECTIONS

1. This unit should be connected by a suitably qualified electrician in accordance with the latest I.E.E. regulations.
2. Ensure the electrical supply is switched off before making any connection to the unit.
3. The immersion heater must be wired through a double pole isolating switch with contact separation of at least 3mm in both poles.
4. The immersion heater must be wired with a heat resistant flexible cord with a minimum T rating of "T-90" and having a cable size in accordance with BS7671 (IET Wiring Regulations) latest edition.
5. Ensure that the terminal screws are not over tightened as this could result in the terminations being broken off.

WARNING: THIS DEVICE MUST BE EARTHED

WIRING:

1. **Earth connection** (green & yellow) should be made firmly to the earth post (marked "E") using the terminals attachments provided.
2. THIS ELEMENT MUST BE CONNECTED TO A MAINS SUPPLY THROUGH A RELAY CAPABLE OF SWITCHING 26 AMPS TO PREVENT FAILURE OF THE THERMOSTAT.
3. Failing to wire this element correctly will invalidate any warranty
THIS 6kW IMMERSION HEATER CANNOT BE WIRED INTO ANY EXISTING CIRCUITS USED FOR 3kW IMMERSION HEATERS.
4. The Supply Circuit should be switched and fused accordingly.
5. **The Live Supply** (brown) from the mains supply cable coming from external relay, to the first terminal on heater
6. **The Neutral connection** (blue) from the mains supply cable coming from external relay, to the second terminal on the heater element.



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