



Installation and Operating Instructions For Cotherm Immersion Elements with UNV,FAB,GLE suffix

1. INSTALLATION

The heater should be installed by a qualified person.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

This Immersion heater is designed to screw into a 1 $\frac{3}{4}$ " diameter British Standard Pipe (BSP) threaded boss, using the 'O' Ring provided. The use of any sealant on the gasket is not recommended.

This heater is suitable for both Vertical / Horizontal fitting in Unvented / Open Vented hot water Cylinders of all sizes.

When selecting a heater always ensure that there is a minimum gap of 15mm between the end of the element and the inside surface of the tank.

No warranty is given or implied for uses other than as part of a domestic hot water system.

2. SAFETY

THIS HEATER SHOULD ONLY BE INSTALLED INTO A SYSTEM WHERE IT WILL ALWAYS BE FULLY IMMERSSED IN WATER.

THE INSTALLER MUST CHECK THAT THE TANK IS FULL OF WATER BEFORE THE IMMERSION HEATER IS SWITCHED ON.

ALWAYS ENSURE THAT THE IMMERSION HEATER CAP IS NOT COVERED

COTHERM (UK) STRONGLY RECOMMEND THAT A SUITABLE TIMER BE INSTALLED TO CONTROL THE IMMERSION HEATER

3. WIRING

This heater must only be connected using 85°C heat resistant rubber insulated HOFr flexible cord with a minimum cross sectional area of 1.5mm².

THIS APPLIANCE MUST BE INSTALLED IN ACCORDANCE WITH BS7671 (IEE Wiring Regulations). IT MUST BE WIRED THROUGH A DOUBLE POLE ISOLATING SWITCH OR SUITABLE CONTROLLER WHICH MUST HAVE A CONTACT SEPARATION OF AT LEAST 3mm IN ALL POLES.

Connect earth (Green & Yellow) firmly to the stud marked 'E' and 

Connect live side of supply (Brown) to terminal 'A' of the thermostat.

Connect the neutral side of supply (Blue) to terminal 'B' of the thermostat.

Ensure earth wire/conductor is long enough to prevent becoming taut before the Live and/or Neutral wiring.

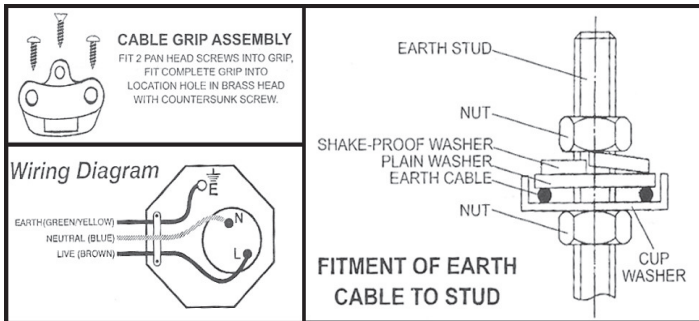
The cable grip should be secured using only the screws provided.

See Illustrations Overleaf

All Cotherm Elements conform with EEC Directive 76/889 for Radio interference and comply with EN60335-2-73

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4. THERMAL CUT - OUT OPERATION

To Be Carried Out By a Service Engineer

This element is manufactured to the European Standard EN 60335-2-73 and is fitted with either a Cotherm type 'TSE' or 'TSR' thermostat which in addition to temperature control, also incorporates an independent non-self resetting over temperature cut-out to prevent excessive water temperatures.

In normal operation the reset pin positioned to the side of the control knob and indicated by a triangle with the word 'safety' below, will be approximately 2 to 3 mm below the upper surface of the thermostat cap.

Should the over temperature cut-out operate, the reset pin will be pushed upwards, and become level or slightly proud of the cover.

When the temperature has fallen sufficiently, and the unit has been isolated from the mains supply, the reset pin can then be returned to its normal operating position by applying hand pressure only, with a suitably sized implement.

WARNING

ENSURE THE APPLIANCE IS ISOLATED FROM THE MAINS BEFORE ATTEMPTING TO RESET THE UNIT

The thermostat fitted to this unit is pre-set to the optimum operating temperature of approximately 65°C, and should be left set in position 4.

**PLEASE RETAIN THIS INFORMATION
FOR FUTURE REFERENCE**

Cotherm (UK)

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