

# IMMERSION HEATERS - INSTALLATION AND OPERATING INSTRUCTIONS.

These instructions cover Copper, Superloy 800 and Superloy 825 immersion heaters Supplied by Heatrae Sadia and Pullin.

## 1.0 INTRODUCTION

### 1.1 IMPORTANT POINTS

Thankyou for purchasing a Heatrae Sadia immersion heater. This unit is manufactured in the UK to the highest standards and has been designed to meet all the latest relevant safety specifications. The immersion heater must be installed, and commissioned by a competent person. Please read and understand these instructions before installing the immersion heater. Following Installation & Commissioning, the operation of the unit should be explained to the user and these instructions left with them for future reference.

The immersion heater is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the immersion heater.

### 1.2 PACK CONTENTS

Immersion heater, thermostat, Installation and Operating Instructions, brass nut (1), spring washer (2), flat washer (1), cup washer (1), M4 x 8mm screw (1), saddle washer (1), cable grip (1), self-tapping screw, 15mm (2), self-tapping screw, 12mm (1)

## 2.0 TECHNICAL SPECIFICATION

Rating: 3.0kW @ 240V~/2.8kW @ 230V~

Thermostat temperature range: 10 to 60°C

## 3.0 INSTALLATION

- 3.1 The immersion heater should only be installed in a domestic copper cylinder to BS 1566 or copper hot water storage combination unit to BS 3198.
- 3.2 An asbestos free gasket is supplied with the immersion heater to be fitted against the element head. Use of any sealant on the gasket is not recommended.
- 3.3 The immersion heater screws into a 2¼" BSP thread boss. 11" and 14" immersion heaters should be installed horizontally. Immersion heaters longer than 14" should be installed vertically. When selecting an immersion heater, please ensure there is minimum gap of 15 mm between the end of the element and the inside surface of the tank.
- 3.4 Please refer to diagrams overleaf for assembly of the earth post, neutral terminal and cable clamp.

## 4.0 ELECTRICAL

- 4.1 This appliance must be earthed. It is suitable for a.c. supply only. Electrical insulation must be carried out by a competent electrician and be in accordance with the latest I.E.E. regulations.
- 4.2 Ensure the electrical supply is switched off before making any connection to the unit.
- 4.3 This immersion heater must be wired with heat resistant flexible cord with a minimum cross-sectional area of 1.5 mm<sup>2</sup>
- 4.4 This immersion heater must be wired through a double pole isolating switch with a contact separation of at least 3mm in both poles.
- 4.5 The cable grip should be secured using only the screw provided (see overleaf).
- 4.6 This immersion heater must only be installed into a system where it will always be immersed in water, such as a cistern fed tank or cylinder.
- 4.7 The installer must check that the tank is full of water before the immersion heater is switched on.

## 5.0 COMMISSIONING

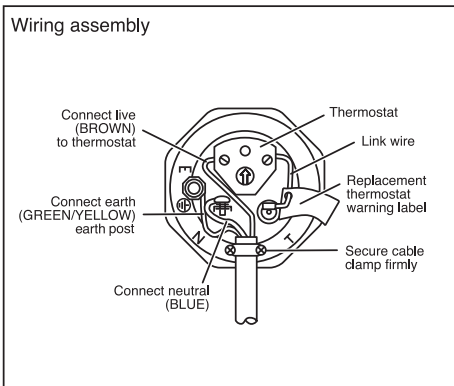
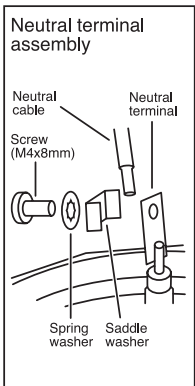
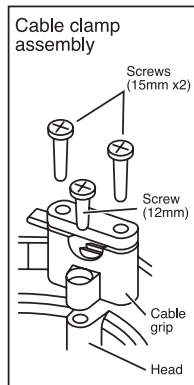
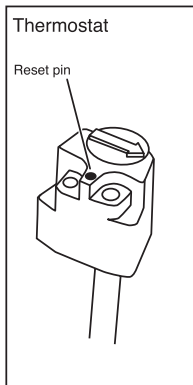
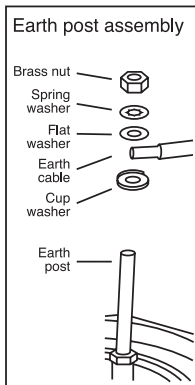
- 5.1 The immersion heater is supplied with an RDT thermostat, factory set to 60°C. This is a combined control thermostat (range 10°C to 60°C) and over-temperature thermal cut-out.
- 5.2 To maintain safety, any replacement thermostat must be of the same type.

## 6.0 USER INSTRUCTIONS

### 6.1 OVER TEMPERATURE CUT-OUT

Should excessive water temperature occur the integral over-temperature cut-out will operate to prevent the water storage cylinder from boiling. The over-temperature cut-out should only be re-set by a competent person.

- 6.2 When the cut-out operates, the re-set pin (see diagram overleaf) will be pushed upwards so that it is level or slightly proud of the of the thermostat cover.
- 6.3 The water storage cylinder must be allowed to cool, and the reason for the operation investigated and rectified, before re-setting the cut-out.
- 6.4 The over-temperature cut-out is re-set by lightly pushing the re-set pin into the cover until it reaches a stop.



NOTE: BEAB approval only applies when the components are assembled correctly as shown in the diagrams above.

### 7.0 SPARE PARTS

Gasket 2¼" (pack of 10)	95611565
RDT 7" thermostat horizontal	95980034
RDT 11" thermostat horizontal	95980035
RDT 11" thermostat vertical	95980041
RDT 18" thermostat vertical	95980036
Gasket screw kit	95611009

### 8.0 GUARANTEE

The immersion heater is guaranteed against faulty materials and manufacture for a period of 2 years from date of purchase. The immersion heater is not guaranteed against damage by frost and excessive scale build-up.

### 9.0 ENVIRONMENTAL INFORMATION

This product is manufactured from many recyclable materials. At the end of its useful life, it should be disposed of at a Local Authority Recycling Centre in order to realise the full environmental benefits. It does not contain any substances harmful to health; it does not contain any asbestos.

# HEATRAE SADIA

**The quality name in water heating**

Heatrae Sadia Heating  
Hurricane Way Norwich NR6 6EA  
www.heatraesadia.com  
PART OF BDR THERMEA © 2010

Service: 0844 8711535  
Service Fax: 0844 8711528  
Email: heatraesadiaservice@heatteam.co.uk