

# Immersion Heaters







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An extensive range of immersion heaters for a wide spectrum of applications.

Each model is fitted with an RDT combined thermostat and resettable safety cut-out to meet the latest BS EN 60335-2-73 standard, and there are three different sheath materials for optimum efficiency and durability in different water conditions.

- Copper – to suit normal water conditions.
- Superloy – nickel alloy for aggressive water conditions.
- Titanium – for hard and very aggressive water conditions.

Our immersion heaters come in lengths from 11" through to 36" covering applications requiring both horizontal and vertical mounting.

Our Titanium immersion heaters come with a five year guarantee (two years for the thermostat). Our other immersion heaters have a two year guarantee.

# Immersion Heaters



## Titanium

**Long life Titanium immersion heaters.** Our Titanium immersion heater sets a new standard for operational life – even in the hardest or most aggressive water conditions.

**Hard and aggressive water.** Problems with water quality continue to grow. Hard and aggressive water can substantially reduce the life and effectiveness of a standard immersion heater. As scale builds up, it takes longer to transfer heat to the water and can cause early element failure. Aggressive water can attack and corrode conventional immersion heaters resulting in premature failure.

**Fit the best – fit Titanium.** Titanium's strength, weight and smooth finish enables it to withstand extreme stress, fluctuating temperatures and corrosive environments. Heatrae Sadia's Titanium immersion heaters are the most reliable and cost-effective solution for hard and aggressive water applications.

To underline the effectiveness of Titanium, we offer an impressive five year guarantee giving users absolute peace of mind.



## Superloy

Range of 3kW immersion heaters for use in aggressive water areas.

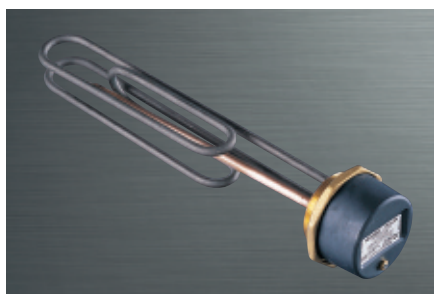
- Superloy 800 – for aggressive water.
- Fitted with RDT combined thermostat and re-settable safety cut-out.
- No-heat zone prevents overheating.
- Available in three lengths from 280mm to 914mm (11" to 36").



## Gold Dot

A range of 3kW immersion heaters suitable as the sole heat source or for use in association with an indirect heating coil.

- Copper sheathed for normal water areas.
- Fitted with RDT combined thermostat and re-settable safety cut-out.
- No-heat zone prevents overheating.
- Available in five lengths from 280mm to 914mm (11" to 36").



## Maxistore

A high performance Superloy 825 sheathed 14" immersion heater recommended for use in conjunction with off-peak tariffs.

- Superloy 825 nickel alloy sheath for high corrosion resistance.
- 3kW element.
- Fitted with RDT combined thermostat and resettable safety cut-out.
- No-heat zone prevents overheating.
- Low watts density for low noise and long life.



## RDT resettable thermostats

All Heatrae Sadia domestic immersion heaters are fitted as standard with an RDT combined thermostat and re-settable safety cut-out.

The range of RDT thermostats provide a simple method of upgrading immersion heaters to the standard BS EN 60335-2-73 without the need for draining down the hot water cylinder.

- Adjustable temperature range from 10°C to 60°C.
- Factory pre-set to 60°C.
- Manual re-set feature incorporating "MFS Technology".
- 7" for horizontal installation only.
- Choice of 11" models for horizontal or vertical installation.
- 18" for vertical installation only.





# Full specifications, dimensions and ordering

## Specifications

| Model            | Installation mode | Length |       | Sheath material | RDT Thermostat size supplied |       |
|------------------|-------------------|--------|-------|-----------------|------------------------------|-------|
|                  |                   | (mm)   | (in.) |                 | (mm)                         | (in.) |
| Titanium 11"     | Horizontal        | 280    | 11    | Titanium        | 178                          | 7     |
| Titanium 14"     | Horizontal        | 356    | 14    | Titanium        | 178                          | 7     |
| Titanium 27"     | Vertical          | 686    | 27    | Titanium        | 458                          | 18    |
| Superloy 800 11" | Horizontal        | 280    | 11    | Superloy 800    | 178                          | 7     |
| Superloy 800 27" | Vertical          | 686    | 27    | Superloy 800    | 458                          | 18    |
| Superloy 800 36" | Vertical          | 914    | 36    | Superloy 800    | 458                          | 18    |
| Gold Dot 11"     | Horizontal        | 280    | 11    | Copper          | 178                          | 7     |
| Gold Dot 14"     | Horizontal        | 356    | 14    | Copper          | 178                          | 7     |
| Gold Dot 27"     | Vertical          | 686    | 27    | Copper          | 458                          | 18    |
| Gold Dot 30"     | Vertical          | 762    | 30    | Copper          | 458                          | 18    |
| Gold Dot 36"     | Vertical          | 914    | 36    | Copper          | 458                          | 18    |
| Maxistore 14"    | Horizontal        | 356    | 14    | Superloy 825    | 280                          | 11    |

| Model   | Installation mode | Length |       | Adjustable temp. range (°C) | Typical temp. differential (°C) |
|---------|-------------------|--------|-------|-----------------------------|---------------------------------|
|         |                   | (mm)   | (in.) |                             |                                 |
| RDT 7"  | Horizontal        | 178    | 7     | 10 to 60                    | 7                               |
| RDT 11" | Horizontal        | 280    | 11    | 10 to 60                    | 7                               |
| RDT 11" | Vertical          | 280    | 11    | 10 to 60                    | 7                               |
| RDT 18" | Vertical          | 458    | 18    | 10 to 60                    | 7                               |

### Rating

All immersion heaters – 3kW @ 240V (2.8kW @ 230V).

RDT resettable thermostats – 16A @ 240V.

### Length

Titanium – 280mm, 356mm, 686mm (11", 14", 27").

Superloy 800 – 280mm, 686mm, 914mm (11", 27", 36").

Gold Dot – 280mm, 356mm, 686mm, 762mm, 914mm (11", 14", 27", 30", 36").

Maxistore – 356mm (14").

RDT resettable thermostats – 178mm, 280mm, 458mm (7", 11", 18").

### Sheath

Titanium – Titanium.

Superloy 800 – Superloy 800 alloy.

Gold Dot – Copper.

Maxistore – Superloy 825 alloy.

### Thermostat

All immersion heaters – New RDT combined thermostat and resettable safety cut-out adjustable from 10°C to 60°C.

### Approvals

All immersion heaters – BEAB approved.

RDT resettable thermostats – BEAB approved to BS EN 60730.

## Ordering guide

| Model                | Product code |
|----------------------|--------------|
| Titanium 11"         | 95:110:400R  |
| Titanium 14"         | 95:110:403R  |
| Titanium 27"         | 95:110:401R  |
| Superloy 800 11"     | 95:110:901R  |
| Superloy 800 27"     | 95:110:905R  |
| Superloy 800 36"     | 95:110:907R  |
| Gold Dot 11"         | 95:110:302R  |
| Gold Dot 14"         | 95:110:303R  |
| Gold Dot 27"         | 95:110:306R  |
| Gold Dot 30"         | 95:110:307R  |
| Gold Dot 36"         | 95:110:308R  |
| Maxistore 14"        | 95:110:721R  |
| RDT 7"               | 95:980:034   |
| RDT 11" (Horizontal) | 95:980:035   |
| RDT 11" (Vertical)   | 95:980:043   |
| RDT 18"              | 95:980:036   |

## Installation

Titanium – Horizontal (11") or vertical (27") mounting in 2 1/4" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions provided.

Superloy 800 – Horizontal (11") or vertical (27" and 36") mounting in 2 1/4" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

Gold Dot – Horizontal (11" and 14") or vertical (27", 30" and 36") mounting in 2 1/4" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

Maxistore – Horizontal (14") mounting in 2 1/4" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

## Guarantee

Our immersion heaters are guaranteed from the date of purchase against faulty manufacture and materials provided that:

- It has been installed in the UK.
- It has been installed correctly.
- It has not been tampered with or damaged by frost.
- It has only been used for heating potable water.

This guarantee is not transferable and does not affect the owner's statutory rights. For more detailed guarantee information contact Heatrae Sadia.

Titanium is guaranteed for a period of five years, and its thermostat for a period of two years.

Superloy 800, Gold Dot, Maxistore and RDT resettable thermostats are guaranteed for a period of two years.



# Contact

## Specification

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E: [specifier@heatraesadia.com](mailto:specifier@heatraesadia.com)

## After Sales Service

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**Web** [www.heatraesadia.com](http://www.heatraesadia.com)

## National service network

Heatrae Sadia products are inherently reliable and are designed to meet the demanding needs of all users.

A nationwide network of experienced engineers is available to provide fast and efficient on-site service support.

In addition, spare parts for the complete range of products are readily available through a wide variety of stockists.

Heatrae Sadia Heating Hurricane Way Norwich Norfolk NR6 6EA

Heatrae Sadia Heating may introduce modifications to their products from time to time. Consequently, the details given in this brochure are subject to alteration without notice.

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