

**HEATRAE SADIA**

The quality name in water heating

## Cistern-fed water heating

MegaLife HE 100/120/150/170/210





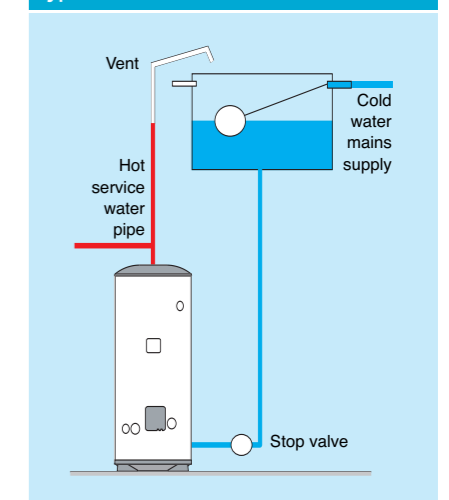
## MegaLife HE 100/120/150/170/210

Heatrae Sadia has built an unrivalled reputation for developing, manufacturing and marketing the highest quality products. By offering the widest and most up-to-date range, we aim to satisfy the most demanding customer needs. Heatrae Sadia's MegaLife HE is the ultimate vented water heating cylinder, using the highest quality materials, a fast recovery coil and features a transferable 25-year cylinder guarantee.



**The traditional cistern-fed or 'vented'** storage water heater has a proven track record of reliability and safety. The operating pressure is dictated by the vertical distance between the water level in the cistern tank and the bottom of the heater. The system is intrinsically safe because the open vent that discharges into the cistern tank automatically equalises any excess pressure or vacuum.

### Typical cistern fed installations



## MegaLife HE 100/120/150/170/210

All MegaLife HE units are designed and manufactured to a very high quality using the latest manufacturing techniques. It boasts numerous innovative features designed to ensure high levels of operating efficiency.

**Transferable 25-year cylinder guarantee\***

**Duplex stainless steel construction**

**No anode**

**Fast recovery coil**

**40 metre (4 bar) maximum working head**

**Alloy sheathed immersion heaters**

**Immersion heater and safety cut-out designed to meet latest EU standards**

**Modern replacement for Cirrus & UDB cylinders**

**Ideal for use in aggressive water areas**



### Duplex stainless steel experience

Heatrae Sadia's expertise with Duplex stainless steel is now extended to vented products with the MegaLife HE range. These cylinders can be installed with confidence in the most aggressive water conditions. Corrosion caused by aggressive water is a serious problem in many parts of the country, and can affect traditional cylinders in different ways. It occurs when a number of factors, such as the levels of nitrates, chlorine, manganese or organic matter combine together to increase the water's corrosive potential. All these can ultimately lead to perforation, often after quite short periods of use. MegaLife resists this corrosion through the use of special grade Duplex stainless steel.

### No sacrificial anodes

Sacrificial anodes are used with inferior grades of stainless steel, glass-lined steel and copper to achieve a degree of corrosion resistance. However they require regular replacement which, if not carried out can result in premature cylinder failure. MegaLife overcomes any need for sacrificial anodes and associated maintenance by using top quality Duplex stainless steel.

### Minimal heat loss

A void-free layer of high-performance polyurethane foam fills the space between the inner vessel and outer casing for maximum insulation efficiency. MegaLife's carefully moulded one-piece insulation cannot separate in transit to reduce its effectiveness, unlike other designs, which rely on the butt jointing of sheet materials. The base is fully insulated and the unit stands on three moulded feet to minimize heat loss to the supporting floor. Immersion heaters and controls are fully integrated - no large external bosses to radiate heat.

### Fast recovery coil

Every indirect MegaLife HE cylinder features a high performance 'coil in coil' heat exchanger which will recover in less than half the time taken by a coil that meets the British Standard. This high performance coil provides greater energy efficiency and more baths per hour.

### Coil performance

Capacity	Recovery min's	Coil loading kW
100 litre	14	15.4
120 litre	14.5	18.3
150 litre	18.5	17.7
170 litre	20	18.7
210 litre	19	24.5

Recovery times are based on raising 70% capacity from 15°C to 60°C using a primary coil temperature of 80°C ± 2°C. This data has been obtained using a simulated standard domestic water heating environment.

### Alloy sheathed immersion heaters

Every MegaLife HE is supplied with one or more tin plated Alloy 825 sheathed immersion heaters. Immersion heaters are guaranteed for a period of 2 years.

### Immersion heater performance

Capacity	Heat up time (mins)		
	Lower 3kW	Upper + Lower 6kW	Upper boost 3kW
100 litre	97	n/a	n/a
120 litre	116	58	46
150 litre	148	74	65
170 litre	164	82	69
210 litre	203	102	77

### Which unit to use

Type of property	Capacity (Indirect) litres	Capacity (Direct) litres
Bedsit	100	100
1 bed 1 bath + shower	120	120 <sup>†</sup> /150 <sup>†</sup>
2 bed 1 bath + shower	120	150 <sup>†</sup> /170 <sup>†</sup>
3 bed 1 bath + shower	150	210 <sup>†</sup>
4 bed 1 bath + shower	170	210 <sup>†</sup>
2/4 bed 2 bath + shower	210	210 <sup>†</sup>

Figures are for guidance only and are based on BS 6700 recommendations.

<sup>†</sup> Supplied with two immersion heaters.

The Heatrae Sadia Specifier Advice team should be contacted to discuss requirements and designs for specific sites.

Actual usage requirements should be assessed in selecting the correct cylinder.



### \* Transferable 25-year guarantee

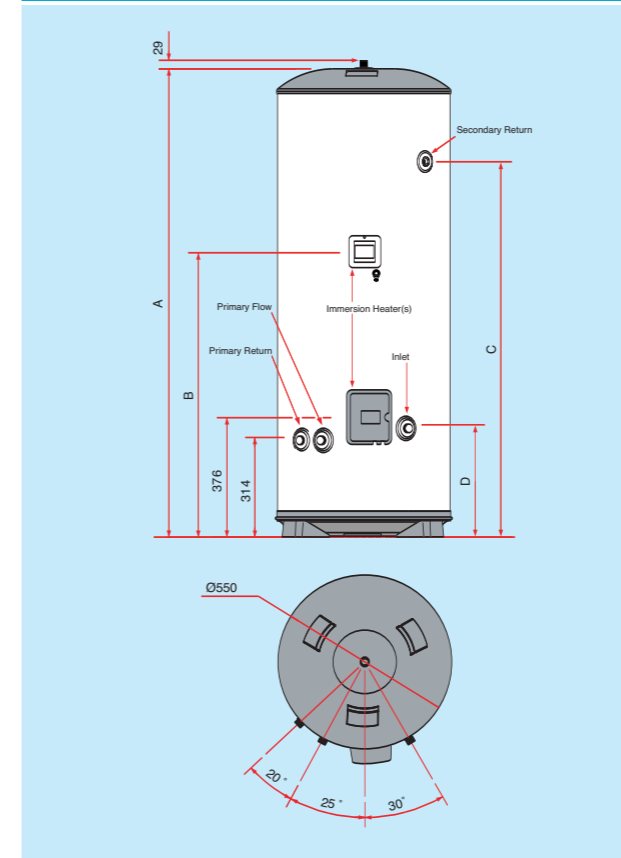
MegaLife HE is guaranteed a long operational life and with no anode to inspect or replace maintenance costs are reduced. All MegaLife HE units are backed by our transferable 25-year cylinder guarantee as part of Heatrae Sadia's 'fit and forget' product programme.

### Extending our fit & forget philosophy

Heatrae Sadia has long been synonymous with water heating reliability. MegaLife HE now sets a demanding standard for the operational life of vented water heaters - even in the most aggressive water conditions. Backed by nationwide, on-site service support, MegaLife's transferable 25-year cylinder guarantee giving users absolute peace of mind.



## MegaLife



## Dimensions

Model	Unit weight (kg)		Dimensions (mm)			
	empty	full	A	B	C	D
MegaLife HE 100 direct	24	124	755		493	306
MegaLife HE 100 indirect	25	125	755		493	354
MegaLife HE 120 direct	26	146	877	535	615	306
MegaLife HE 120 indirect	27	147	877		615	354
MegaLife HE 150 direct	29	179	1061	576	800	306
MegaLife HE 150 indirect	31	181	1061		800	354
MegaLife HE 170 direct	31	201	1187	707	925	306
MegaLife HE 170 indirect	34	204	1187		925	354
MegaLife HE 210 direct	42	252	1445	916	1184	306
MegaLife HE 210 indirect	47	257	1445		1184	354

## Specification

**Nominal capacities** 10 models, 100, 120, 150, 170 and 210 litre unit available in direct and indirect versions.  
**Rating** 3.0kW, 6.0kW @ 240V and 2.8kW, 5.6kW @ 230V. Dependant on model.  
**Outer casing** White textured, plastic coated corrosion-proofed steel.  
**Thermal insulation** CFC/HCFC-free (ODP zero) fire-retardant, 50mm thick expanded polyurethane.  
**Water container** Duplex 2304 (1.4362 EN 10088) stainless steel. 40 metres (4 bar) maximum working head.  
**Heat unit** Tin plated Alloy 825 sheathed Megalife HE Direct 120, 150, 170 and 210 units have two immersion heaters.  
**Primary coil** 22mm diameter stainless steel. 3.5 bar maximum working pressure.  
**Thermostat** Indirect models: factory fitted with 10 to 70°C adjustable cylinder thermostat.  
**Safety features** Thermostats with manual resettable thermal cut-out.  
**Anode** Not required.  
**Approvals** BEAB, WRAS approved. Manufactured in the UK in a BS EN ISO 9002 registered factory.



## Installation

**Fixing** Built in feet for floor standing.  
**Plumbing** Inlet/outlet: 3/4" BSP male/22mm compression fittings supplied. Indirect coil: 3/4" BSP male/22mm compression fittings supplied. Secondary Circulation: 1/2" BSP female (secondary circulation is not recommended for direct electric units being used on off peak electricity tariffs). The MegaLife HE must be fitted with a vent pipe that rises continuously and is arranged to discharge into the cold water feed cistern.  
**Electrical** Each immersion heater must be permanently connected to the electrical supply through a double-pole linked switch with a minimum breaking capacity of 13A. The indirect thermal controls should be wired into a suitable indirect control system to ensure optimum control of the MegaLife HE and boiler.  
 All electrical work must conform to current IEE wiring regulations.

Heatrae Sadia's Specification Advice Team is available to discuss requirements for specific projects, applications and product selection on Tel: 01603 420220.

## Guarantee

**Guarantee terms** On-site service support from date of purchase. Cylinder 25-years, immersion heater(s) and electric controls two-years provided that:

- It has been correctly installed as per the instructions contained in the instruction manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- It has not been modified in any way, other than by Heatrae Sadia Heating.
- It has not been frost damaged.
- It has only been used for the storage of potable water.
- It has not been tampered with or been subjected to misuse or neglect.
- Within 60 days of installation the user completes and returns the certificate supplied along with the proof of purchase to register the product.

The MegaLife immersion heater and thermal controls are guaranteed for a period of two years from the date of purchase. Evidence of purchase and date of supply must be submitted. The unit is not guaranteed against damage due to frost. The guarantee is transferable. This guarantee does not affect your statutory rights.



## Ordering guide

Model	Product Code
MegaLife HE 100 direct	95:030:700
MegaLife HE 100 indirect	95:030:710
MegaLife HE 120 direct	95:030:704
MegaLife HE 120 indirect	95:030:714
MegaLife HE 150 direct	95:030:701
MegaLife HE 150 indirect	95:030:711
MegaLife HE 170 direct	95:030:702
MegaLife HE 170 indirect	95:030:712
MegaLife HE 210 direct	95:030:703
MegaLife HE 210 indirect	95:030:713

## HEATRAE SADIA

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# Products

**Boiling water** Supreme | Supreme SS

**Chilled water** SuperChill

**Cistern-fed water heating** Megalife HE | Megalife Solar

**Cistern-type water heating** FBM

**Electric space heating** Amptec | Electromax | Aerheat

**Electric showers** Accolade | Carousel | Sapphire | Cameo

**Hand hygiene** Handy | Concept | Hair Drier | Handy Dri

**Immersion heaters** Titanium | Superloy | Gold Dot | Maxistore | RDT Thermostats

**Point of use** Streamline | Express | UTC 99 | B3M | C3M | Vented tap range

**Small unvented water heating** Hotflo | Multipoint

**Unvented water heating** Megaflo HE | Megaflo HE SystemFit | Megatech Solar

For free product brochure(s) call our literature hotline on 01603 420127

# Contact

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**Service** T: 08701 600125 F: 08701 600181 E: [heatraesadiaservice@heateam.co.uk](mailto:heatraesadiaservice@heateam.co.uk)

**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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