Megaflo Solar

Solar thermal hot water
The Megaflo Solar unvented water heater is an efficient alternative to conventional water heating systems. Developed to our exacting performance and reliability standards, the technology we’ve developed for the Megaflo Solar has reached the stage where up to 60% of your home’s annual hot water requirement can now be provided by solar energy.* With the price of fossil fuels certain to increase over time, the potential for significant long-term savings is clear to see.

The Megaflo Solar uses a special solar coil in the base of the cylinder that’s designed to ensure maximum heat input and efficiency. The cylinder itself benefits from sophisticated Duplex stainless steel cylinder construction for maximum strength and corrosion resistance. We specify high-performance polyurethane foam between the inner vessel and outer casing for the best possible heat insulation. And to prove our attention to even the smallest detail, we provide an insulated case for the exposed temperature and pressure relief valve to further improve the heat insulation.

We’ve also designed the Megaflo Solar to work without sacrificial anodes. This key innovation does away with the inconvenience and cost of regular visits from heating engineers for their replacement.

Such is our confidence in this new solar water heating technology, every new Megaflo Solar comes with a lifetime parts and labour cylinder guarantee, with on-site service support.

* This is an average figure for the year, with savings varying depending on the type of solar system used, its location and your patterns of usage.
Solar cylinders

Flexible options

Megaflo Solar is a mains-fed Duplex stainless steel solar thermal unvented cylinder designed to deliver higher flow rates to all outlets when compared to cistern-fed systems giving faster filling baths and more powerful showers.

Megalife Solar is a cistern-fed Duplex stainless steel solar thermal vented cylinder designed as a simple upgrade for systems which currently have a traditional copper cylinder.

Both Megaflo Solar and Megalife Solar have been designed to provide a balance between the dedicated solar heated capacity and the immersion heater or boiler heated capacity. This ensures that the benefit is gained from solar energy and that there will be sufficient hot water on days where there is little solar gain, such as during winter months. This enables consumers’ everyday hot water needs to be met efficiently and gives specifiers the correct choice of products when specifying for Building Regulations via SAP.

Features

1 Duplex stainless steel cylinder for long life.
   190, 210, 250 and 300 litre capacities (indirect).
   170, 210, 260 and 300 litre capacities (direct).
2 Choice of direct or indirect auxiliary heat input.
3 Specially designed solar coil for maximum solar efficiency.
4 Safety and hot water controls.
   • Remote expansion vessel.
   • High flow rates for improved hot water delivery.
   • Compatible with a wide range of UK solar systems.
   • Lower running costs and reduced energy bills.
   • Environmentally friendly – reduced carbon emissions.
   • Equally suited for new build or refurbishment projects.
   • Fully indemnified design service.
   • Lifetime on-site parts and labour cylinder guarantee (Megaflo Solar).
   • 25 year on-site parts and labour cylinder guarantee (Megalife Solar).

◊ Megaflo Solar unvented only.

*Part L (England & Wales), Section 6 (Scotland) and Part F (Northern Ireland).
**Standard Assessment Procedure for Energy Rating of Dwellings.
How do Megaflo Solar and Megalife Solar work?

The solar cylinder is used in conjunction with solar panels (not supplied) which convert energy collected from the sun’s rays to heat a water/glycol liquid in its pipework. This liquid is circulated through a specially designed solar coil in the base of the cylinder where the liquid transfers its heat to the water stored before being pumped back to the solar panel to be re-heated. The design of this coil allows maximum solar gain to be achieved ensuring that the solar system is being used to its full potential.

How much of your water heating energy needs can be provided by solar?

During the summer months as much as 100% of the energy used by Megaflo Solar or Megalife Solar could be solar.* In winter, despite the lower intensity of the sun’s rays and fewer daylight hours as much as 30% could be solar.* On average throughout the year up to 60% of a dwelling’s hot water requirement can be provided by solar power.* The balance is provided by traditional means; either indirect (via a gas, oil or electric boiler heating a second coil within the cylinder) or direct (via electric immersion heaters in the cylinder).

*Savings vary depending on type of solar system used, location and usage patterns.

Which unit to use

The choice of capacity for traditional cylinders is based on the hot water requirements of the dwelling. With solar cylinders the usable hot water will vary due to a number of factors such as siting of solar panels, time of year and weather conditions. For this reason, when choosing a solar cylinder you should ensure that sufficient usable hot water will be available during winter months where solar gain is at its lowest.

For example a non-solar dwelling of three inhabitants with a bath and a shower would normally require a 145 litre indirect cylinder.

A portion of the cylinder capacity must be dedicated to solar only; therefore the same dwelling with a solar system would require a 250 litre indirect solar cylinder which would provide 145 litres of hot water during periods where there is little or no solar gain. For guidance please refer to the table below. Some applications may require larger water quantities or higher recovery rates, therefore it is important to calculate the hot water requirement before selecting the cylinder capacity.

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**Which unit to use**

### Indirect cylinder

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<th>No. of beds</th>
<th>No. of baths / showers</th>
<th>Max. occupancy</th>
<th>On-roof panels</th>
<th>In-roof panels</th>
<th>Tube</th>
<th>Cylinder volume</th>
<th>Dedicated solar (litre)</th>
<th>On-roof (l/m²)</th>
<th>In-roof (l/m²)</th>
<th>Tube</th>
<th>Max. property size (m²)</th>
<th>Auxiliary volume (litre)</th>
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<th>Cylinder volume</th>
<th>Dedicated solar (litre)</th>
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On-roof absorber area = 1.84; in roof absorber area = 2.28; tube absorber area = 1.00.

All cylinders are SAP compliant provided the maximum property size is not exceeded.
**Specification**

**Capacities**
- 190, 210, 250 and 300 litre – indirect.
- 170, 210, 260 and 300 litre – direct.

**Immersion heater ratings**
- 1x 3kW @ 240V – indirect models and 170 litre direct.
- 2x 3kW @ 240V – direct models above 170 litre.

**Outer casing**
- White plastic coated corrosion proofed steel.

**Thermal insulation**
- CFC/HFC-free (ODP zero) flame-retardant expanded polyurethane (50mm thick).
- GWP 3.1 (Global Warming Potential).

**Water container**
- Duplex stainless steel.

**Pressure testing**
- To 15 bar.

**Heat unit**
- Long-life Superloy 825 alloy sheathed element(s), incorporated into an easily removable heater plate, should replacement be necessary. Rated 3kW @ 240V.

**Primary coil**
- (For auxiliary boiler heating) 22mm diameter stainless steel. Coil-in-coil design for improved performance.

**Solar coil**
- 25mm diameter stainless steel. Coil-in-coil design and large surface area for improved performance.

**Thermostat**
- Direct models: Element thermostat adjustable from 10°C to 70°C.
- Indirect models: Factory fitted cylinder thermostat adjustable to 70°C.
- Solar: Factory fitted control pocket suitable for insertion of solar controller temperature probe.

**Factory fitted safety features – Megaflo Solar**
- Direct models: Manually resettable cut-out on heating element operates at 85°C.
- Indirect models: High limit thermal cut-out operates at 85°C. Wired in series with two-port motorised valve (supplied) to provide primary over temperature protection when using the auxiliary (boiler) coil.
- All models: Temperature and pressure relief valve, factory set to operate at 10 bar and 90°C. Factory fitted thermal cut-out for integration into a solar circuit.

**Safety features – Megaflo Solar**
- Thermostats with manually resettable thermal cut-out. Factory fitted thermal cut-out for integration into a solar circuit.
- Anode
  - Not required.

**Approvals**
- WRAS listed and CE marked. Manufactured in the UK in a BS EN ISO 9001:2008 registered factory.

**Installation**

**Plumbing – Megaflo Solar**
- Inlet / outlet: ½” BSP male parallel and 22mm compression fittings supplied.
- Indirect primary coil: ½” BSP male parallel and 22mm compression fittings supplied. ½” & 3/8” relief valve: 15mm compression outlet supplied.
- Solar coil: ½” BSP male parallel and 22mm compression fittings supplied.
- Cold water control 22mm HiFlow cold water valve assembly comprising 3 bar pressure reducer, ¼ turn isolating ball valve, line strainer, non-return valve and expansion valve (8 bar).
- Cold water control valve (3 bar) is supplied for use with mains pressure of 20 bar to 1.5 bar, at the lower pressure, performance will be reduced accordingly. Normal working pressure is 3 bar.

**Plumbing – Megaflo Solar**
- Inlet/outlet: ½” BSP male parallel and 22mm compression fittings supplied.
- Indirect primary coil: ½” BSP male parallel and 22mm compression fittings supplied. Solar coil: ½” BSP male parallel and 22mm compression fittings supplied.
- Secondary circulation: ½” BSP female connection provided (circulating pump not supplied). Secondary circulation is not recommended for units off peak electric elements for auxiliary heating.

**Fixing**
- Built-in feet for floor-standing.

**Water expansion – Megaflo Solar**
- Via remote 25 litre expansion vessel (supplied).

**Flow rates – Megaflo Solar**
- Up to 72 litres per minute (depending on adequate supply conditions). Minimum water supply requirement 20 litres per minute flow and 1.5 bar pressure (at lesser values, the unit will operate but outlet flow rates may be unacceptable, especially with multiple draw-offs). Please contact our Specification Advice Team to discuss specific site conditions if the above minimum requirement cannot be met.

**Secondary circulation – Megaflo Solar**
- ½” BSP female connection provided (circulating pump not supplied). Secondary circulation is not recommended for units off peak electric elements for auxiliary heating.

**Compatible boilers – Megaflo Solar**
- Gas, electric or oil fired – sealed system or open vent type, fitted with integral control thermostat and thermal cut-out.

**Tundish – Megaflo Solar**
- 15mm inlet and 22mm compression outlet.

**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 Megaflo Solar and auxiliary boiler. The solar coil must be connected to a fully pumped solar primary system that should be controlled by a suitable solar controller and hydraulic set. The solar controller cylinder temperature sensor must be inserted in the pocket supplied on the heater. The solar thermal cut-out (factory fitted) should be wired in series with the solar controls (not supplied).

**Guarantee**

**Warning:** Should the factory fitted temperature and pressure relief valve be tampered with or removed your guarantee will be invalidated. Neither the Distributor nor Manufacturer shall be responsible for any consequential damage howsoever caused.

Heatrae Sadia guarantees the Megaflo Solar against faulty manufacture or materials for a period of two years from the date of purchase including parts and labour. This two year guarantee is extended to five years for the cold water control valve and to “lifet ime” for the stainless steel inner vessel in domestic properties (25 years for Megalife Solar) and to 30 years for the stainless steel inner vessel in commercial buildings (25 years for Megalife Solar). These guarantees are valid provided that:

- The Megaflo / Megalife has been installed by a competent installer and as per the instructions contained in the installation manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- Any disinfection has been carried out in accordance with BS 6700.
- The Megaflo / Megalife has not been modified in any way other than by Heatrae Sadia Heating or Heatrae Sadia Heating approved engineers.
- The Megaflo / Megalife has only been used for the storage of wholesome water (max. 250mg/l chloride).
- The Megaflo / Megalife has not been subjected to frost, nor has it been tampered with or been subjected to misuse or neglect.
- No factory fitted parts have been removed for unauthorised repair or replacement.
- The Benchmark log book supplied has been completed.
- Regular maintenance has been carried out by a competent person in accordance with the requirements set out in the maintenance section of the installation manual and any replacement parts used should be authorised Heatrae Sadia Megaflo / Megalife spare parts. Annual Services are available from heateam, the service division of Heatrae Sadia. Please contact heateam on Tel: 0844 8711 535 for further details.
- Within 60 days of purchase the owner completes and returns the certificate supplied to register the product. Evidence of purchase and date of supply must be submitted upon making a claim.

This guarantee is not valid for installations outside the United Kingdom. For installations outside of the United Kingdom, please contact either the Heatrae Sadia Heating Export Department on Tel: +44 1603 420191 or Baxi International on Tel: +44 1926 478323 for further details of the guarantee terms and conditions applicable. This guarantee does not affect your statutory rights. Evidence of purchase and date of supply must be submitted. The unit is not guaranteed against damage due to scaling or frost. This guarantee does not affect your statutory rights.

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*Lifetime is defined as for as long as the original owner who purchased the Megaflo / New Home continues to own the property. If the owner sells the property, the new owner (and any future owners) will receive a 30 year warranty from the time the original owner purchased the Megaflo or new property with Megaflo installed.*

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**Baxi Solarfio**

The Heatrae Sadia Megaflo Solar and Megaflo Solar cylinders are ideal companions for the Baxi Solarfio system.

- On-roof, in-roof and flat roof solar collector packages available.
- Evacuated tube packages now also available.
- Reduces CO₂ emissions and domestic fuel bills.
- National technical support and after-sales service from a single source.
### Dimensions and Ordering

#### Dimensions – Megaflo Solar

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<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
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#### Dimensions – Megaflo Solar

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#### Ordering Guide

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<th>Indirect auxiliary heat-up (kW)</th>
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Contact

Specification
T: 01603 420220 F: 01603 420229
E: specifier@heatraesadia.com

After Sales Service
T: 0844 871 1535 F: 0844 871 1528
E: heatraesadiaservice@heateam.co.uk

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