

Product Information



ErP
A rated



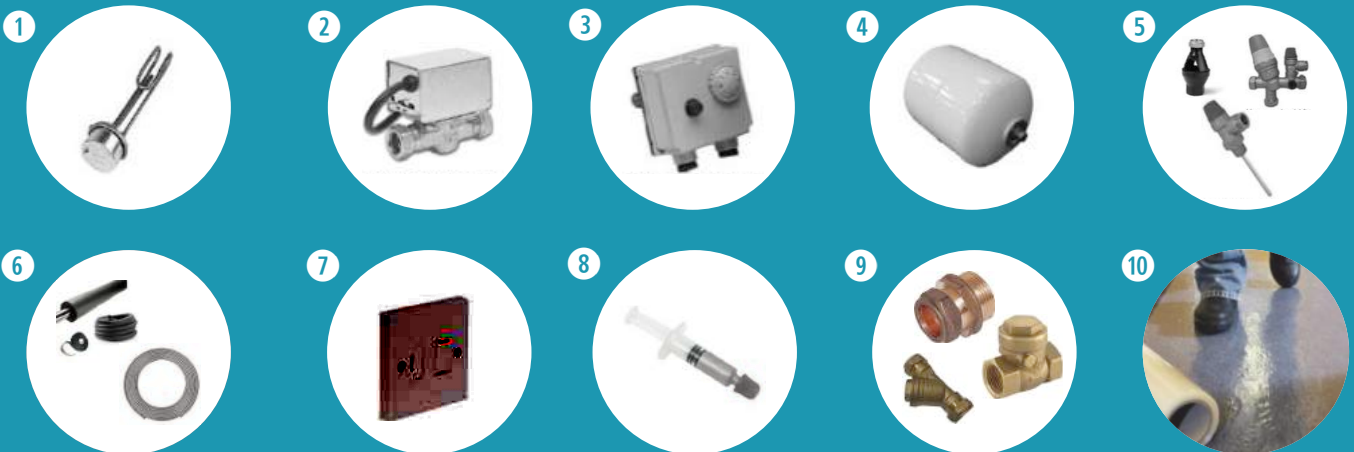
IMPORTANT:

This product is currently being installed into domestic properties. Please read below to familiarise yourself with the product. Training and/or further details are available from the Magic Thermodynamic Box Ltd. Please contact them directly if you require further information.

THE SYSTEM:

The Big Magic Thermodynamic Box combines our innovative Solar Assisted Heat Pump technology with an A rated, KIWA approved stainless steel cylinder to create our first ever thermodynamic cylinder.

BMTB GLOBUS INSTALLATION KIT



1 IMMERSION HEATER
240 v 1.5 Kw

2 HOT WATER MULTI PORT ZONE VALVE
offers the ability to isolate the hot water heating from the central heating

3 CONTROL AND HIGH LIMIT THERMOSTAT
Quick, easy fit dual thermostat to allow temperature control of auxiliary heating sources

4 EXPANSION VESSEL AND MOUNTING KIT
Designed to protect the system from excess pressure

5 TUNDISH, TP RELIEF VALVE AND UNVENTED COLD FEED COMBINATION CONTROL SET
Additional components to aid in protecting the system from excess pressure

6 2X 15m PIPE INSULATION AND 2X 15m REFRIGERANT PIPING
3/8ths length of pipework and insulation for connection between the BMTB and External Thermodynamic Panel

7 FUSED SPUR AND BACK BOX
The electrical connection to property ring main

8 THERMAL PASTE
Syringe of thermal paste for ensuring a good thermal connection between the cylinder and thermostat

9 'Y' FILTER, NON-RETURN VALVE AND COMPRESSION COUPLERS
A combination of additional components that helps to ensure optimum running performance

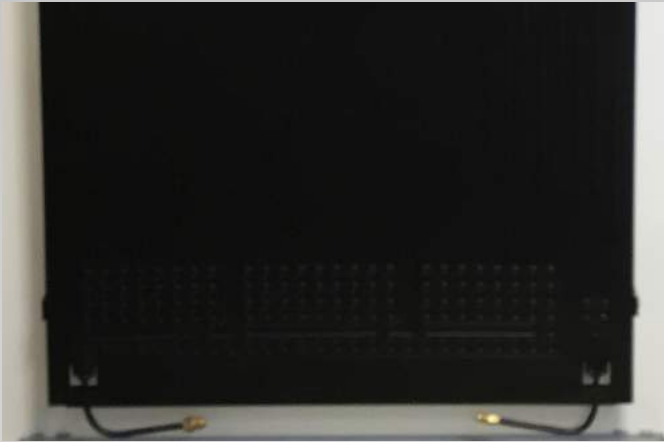
10 FLOOR PROTECTION
To be used during installation

PRODUCT OVERVIEW

The Big Magic Thermodynamic Box is the all in one solution to your hot water heating requirements. Enabling us to offer a complete range of Solar Assisted Heat Pumps, with either our 130L or 200L indirect, unvented cylinder, suitable for every installation. This hot water heating and storage system has been MCS tested and utilises our already proven technologies.

Relying on the same thermodynamic principles as our existing Solar Assisted Heat Pump range, the Big Magic Thermodynamic Box transfers this energy to water within its casing, to efficiently and cost effectively handle your water heating demands.

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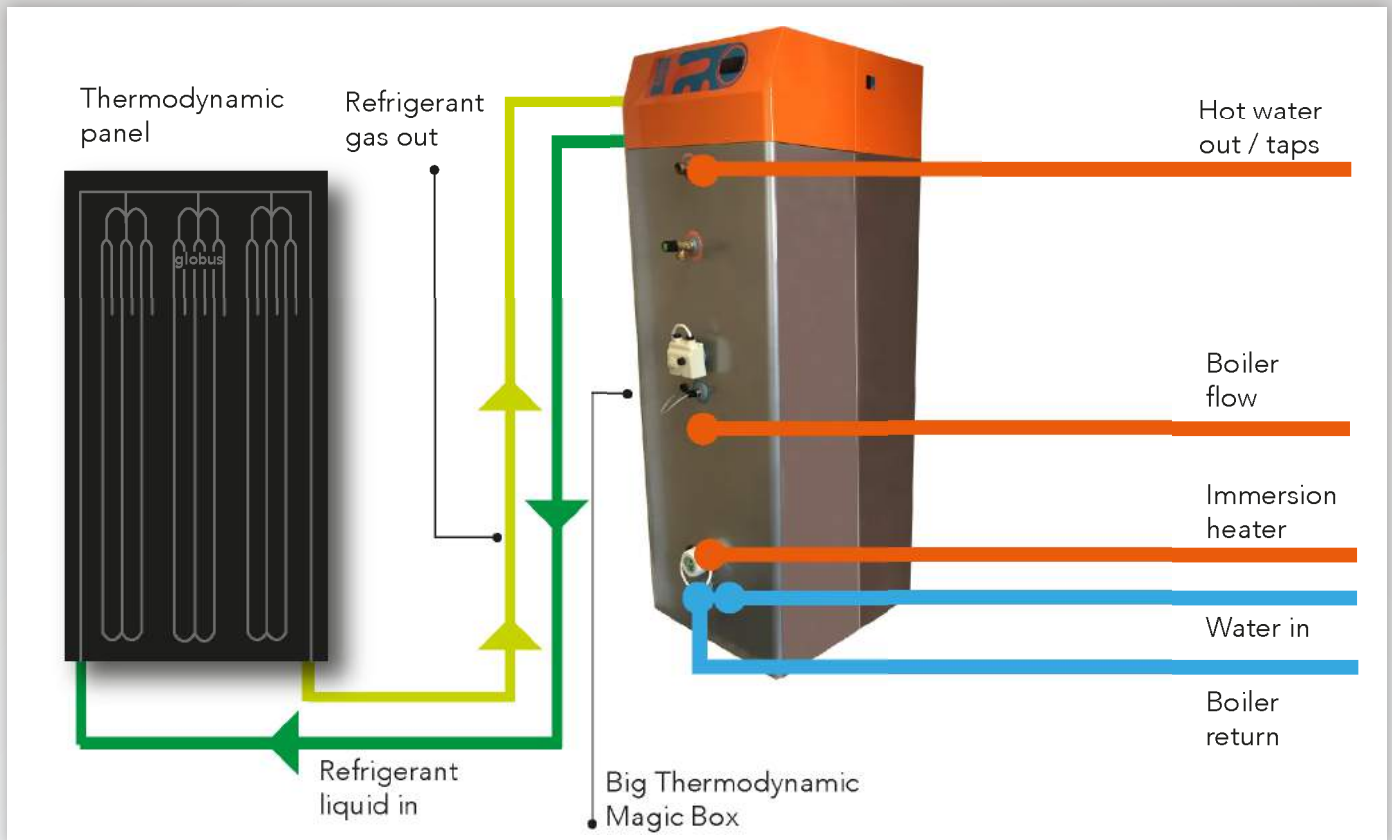


POSITIONING

The Thermodynamic Panel is made of aluminium and fitted to an external wall. Any aspect is suitable. It can be in portrait or landscape orientation.

The Big Magic Box is installed as a replacement for the existing hot water storage cylinder. It is connected by Teeing into the hot and cold water flows. The Magic Box is pre-gassed with R134a ozone friendly refrigerant to facilitate an 8 metre run between the Panel and Box. This can be extended to 15 metres.

HOW IT WORKS



The Thermodynamic Collector circulates refrigerant liquid where energy is absorbed from the ambient temperature.

This transforms the liquid into a gas, which carries the heat energy to the Solar Assisted Heat Pump.

The Solar Assisted Heat Pump then compresses the gas which increases the temperature.

The spent gas reverts back to a liquid which flows back in the panel, allowing the process to start again.

Simultaneously, the superheated gas heats the water within the cylinder using a proprietary process.

This process continues until the water in the cylinder reaches 55°C.

Once this is achieved the system goes into standby mode.

Products



Warranty



Training



Tested



Memberships



Accreditations



Awards



Magic Thermodynamic Box Ltd.

enquiries@magicthermodynamicbox.com | www.magicthermodynamicbox.com