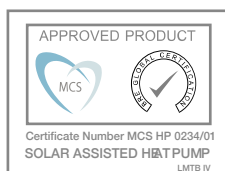
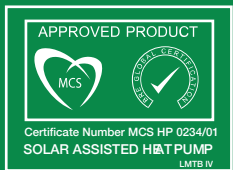


Solar Assisted Heat Pump

eco Maldon
Airconditioning and
Renewable specialists





Unique

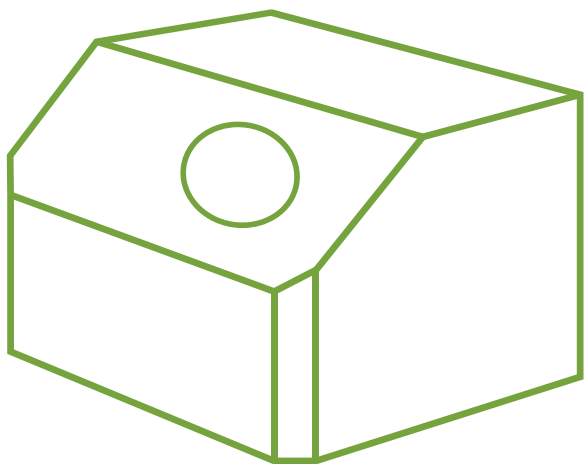
We are pleased to be selling the first MCS approved domestic hot water product to retro-fit all existing cylinders, heating water up to 55°C

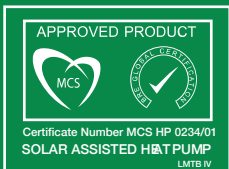
Over 30 years of engineering expertise go in to make one of the most advanced water heating systems on the market

Achieved MCS Solar Assisted Heat Pump status in the UK

Manufactured in a UK Factory with ISO 9001 certification

Specifically tailored for British homes and the British climate





The marketplace

Table showing advantages of Solar Assisted Heat Pumps over traditional Solar Thermal



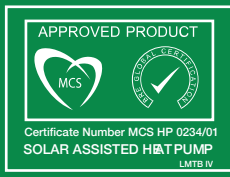
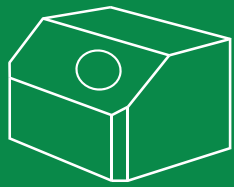
Solar Assisted Heat Pump

- Works day and night
- Works down to -10°C
- Provides up to 100% of hot water requirements
- Heats water throughout day, night and all seasons, whenever it's needed
- Panel can be fitted south, east or west facing even northeast and northwest
- Panel is under 7kg
- Aluminium panel is very durable
- Can be fitted to a wall or roof
- Both sides of the panel absorb energy
- Sealed system with R134a gas
- Minimal maintenance

Traditional Solar Thermal

- Needs direct sunlight
- Will not work at night, with no sun or 0°C
- Only provides 30% of hot water requirements
- Only heats water in summer and during height of the day, when its not needed
- Panel needs to be south facing for maximum results
- Heavy panels
- Panels made up of fragile glass tubing
- Installed on a south facing roof only
- Smaller energy collection area
- Requires Glycol top-up
- High maintenance





The concept



A microwave sized Solar Assisted Heat Pump in a box powered by an external thermodynamic panel providing hot water in an existing cylinder



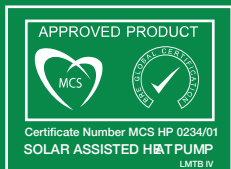
Heats Water Day and Night in all weathers 365 days a year



It is a Fridge in reverse with proven reliability



The panel can be installed on the wall, roof or even inside a loft if the property is listed



How it works



The Aluminium panel circulates the refrigerated liquid where energy is absorbed from the ambient air



This transforms the liquid into a gas, which carries the heat energy to the thermodynamic box



The thermodynamic box compresses the gas which increases the temperature



The spent gas reverts back to a liquid which flows back into the panel, allowing process to repeat



Simultaneously, a water pump pulls cold water from the cylinder into the thermodynamic box



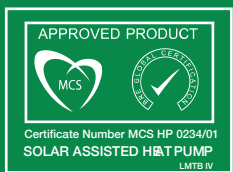
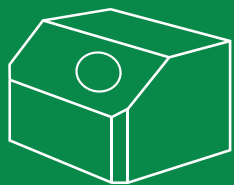
This works as a heat exchanger which returns hot water to the cylinder



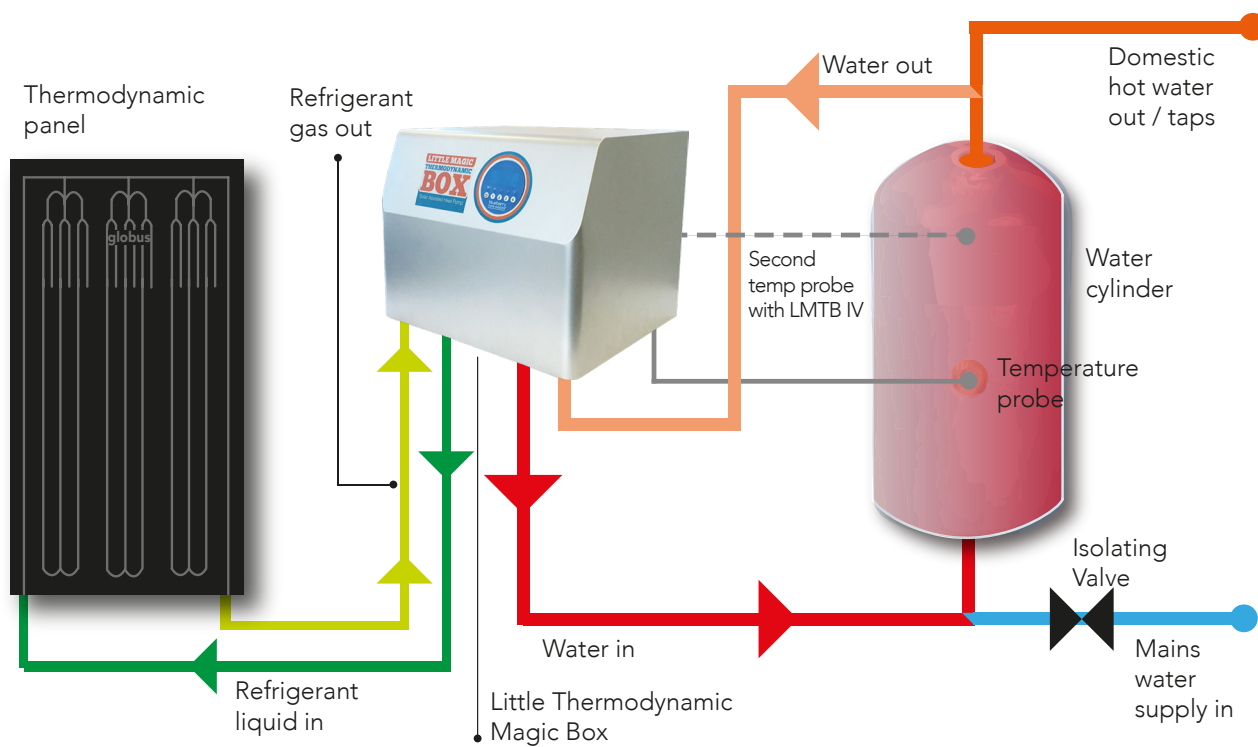
This flow continues until the water in the cylinder reaches 55°C

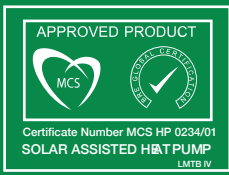
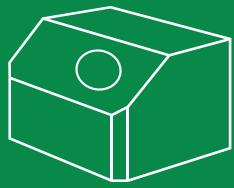


Once this is achieved the system goes into standby












How it works

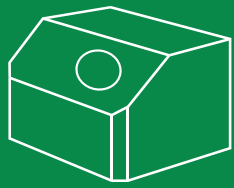




The panel



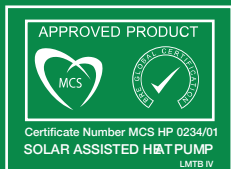
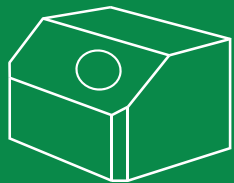
-  Only one panel required for standard domestic installation
-  Made of roll-bond aluminium
-  Highly durable (no glass or glycol)
-  Delivered nitrogen filled
-  Absorbs energy from ambient air, sunlight, wind and rain
-  Very light and easy to install
-  Normally fitted to a wall
-  Can be fitted to any aspect
-  Panel is silent in operation



Features and benefits



-  Installed by fully Qualified Installation teams
-  Full standard installation in under 1 day
-  Light aluminium panel
-  Anti-Corrosion Protection
-  No risk of freezing or over-heating
-  Retro fits to existing cylinder
-  5 YEAR MANUFACTURERS GUARANTEE
-  Works 24 hours a day



Features and benefits



Hot Water up to 55°C



Hot Water in ALL weather conditions, down to -10°C



Hot Water at a fraction of Gas or Electric system costs



More efficient than 'Traditional Solar Thermal' panels



Suitable for residential property or commercial premises



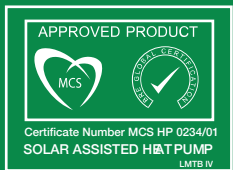
Sizes available for small to large property types



Smart Blueberry controller automatically ensures the water is at temperature at 6 am and 4 pm everyday



Automatic weekly anti-legionella cycle that heats water to 60°C



What happens next

STEP ONE



Assessor's visit

STEP TWO



Surveyor's visit

STEP THREE



Installation

STEP FOUR



Post inspection visit