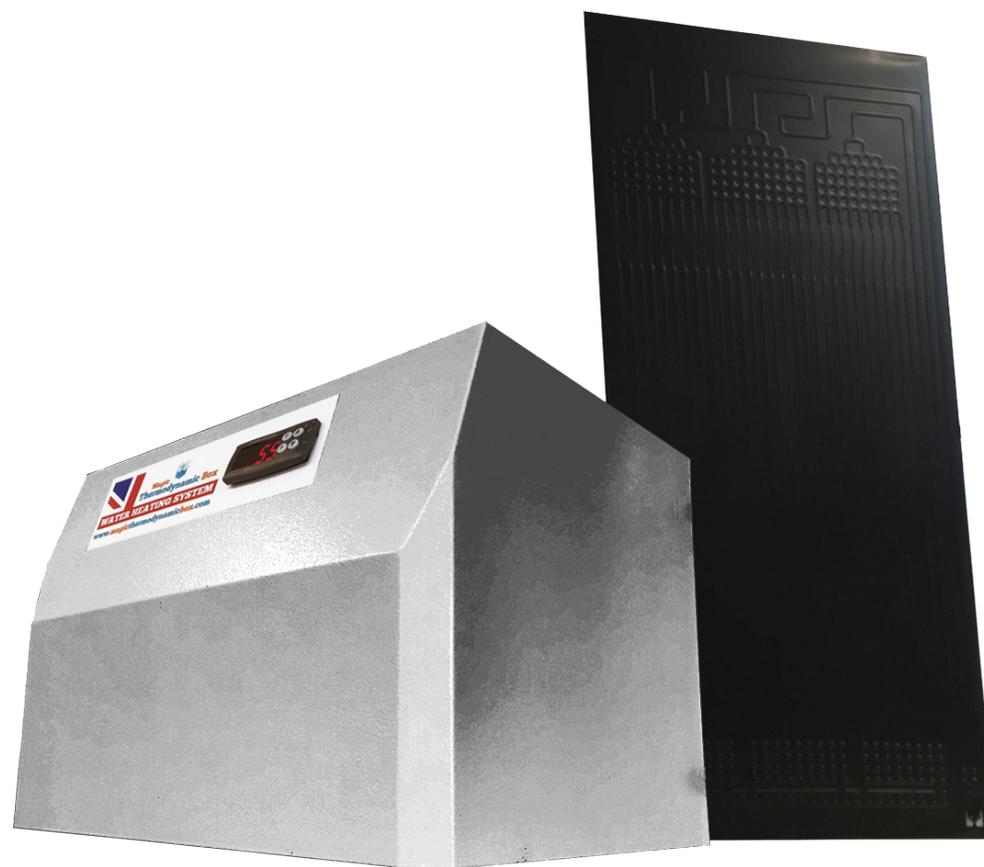
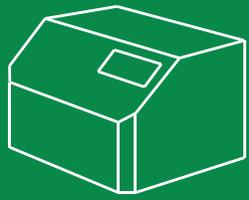




Solar  
Assisted  
Heat  
Pump

**eco Maldon**  
Airconditioning and  
Renewable specialists





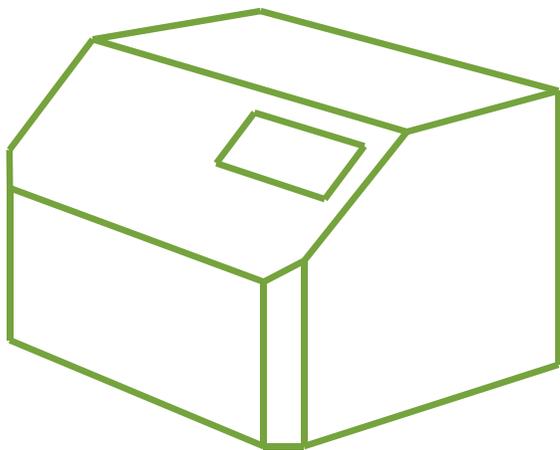
## Unique

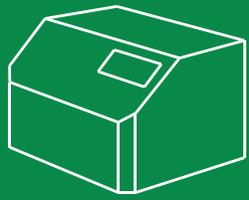
We are pleased to be selling the first domestic hot water product to retro-fit all existing cylinders, heating water up to 55°C

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

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*



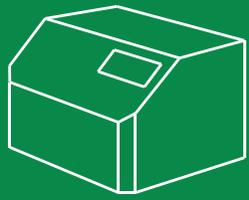
## **Solar Assisted Heat Pump**

Works day and night  
Works down to  $-10^{\circ}\text{C}$   
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

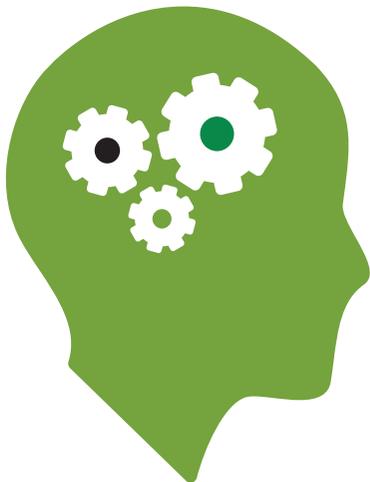
## **Traditional Solar Thermal**

Needs direct sunlight  
Will not work at night, with no sun or  $0^{\circ}\text{C}$   
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



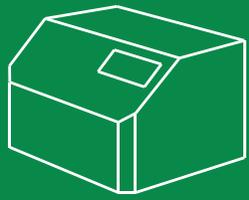
Heats Water Day and Night in all weathers 365 days a year



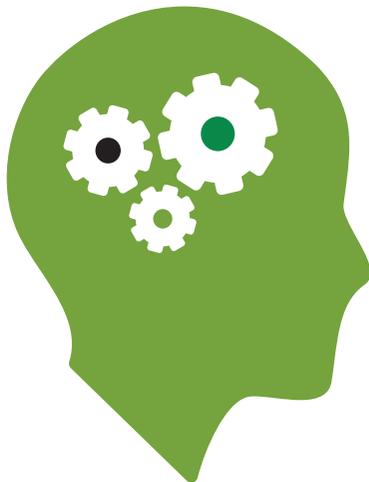
It is a Fridge in reverse with proven reliability



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



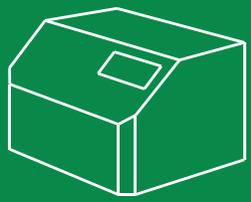
This works as a heat exchanger which returns hot water to the cylinder



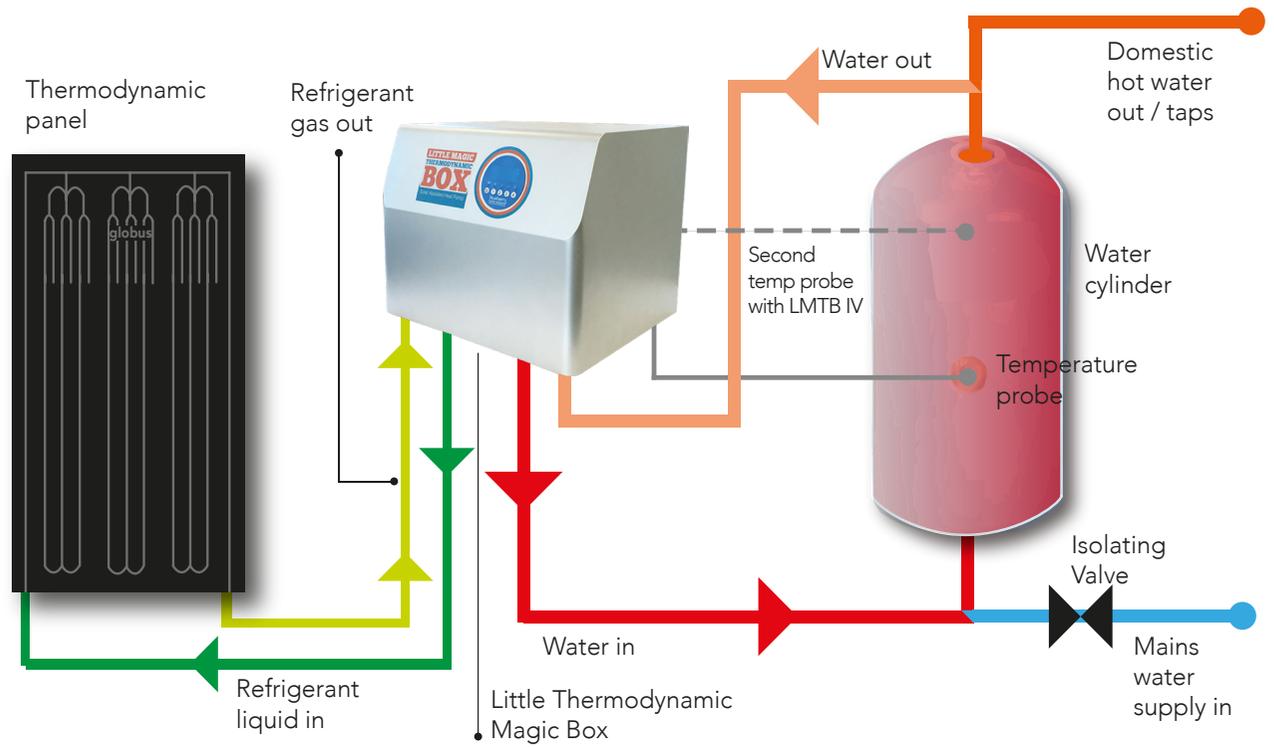
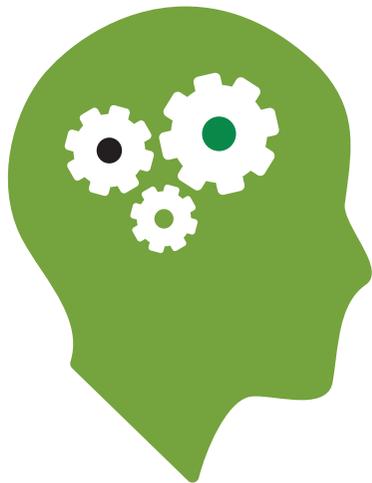
This flow continues until the water in the cylinder reaches 55°C

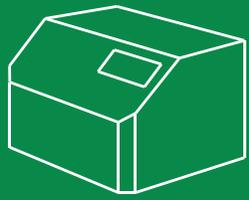


Once this is achieved the system goes into standby



# How it works

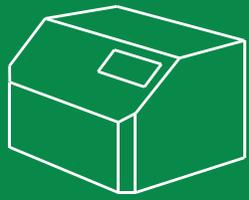




# The panel



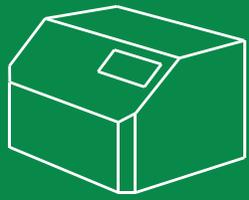
-  Only one panel required for standard domestic installation
-  Made of roll-bond aluminium
-  Highly durable (no glass or glycol)
-  Delivered nitrogen filled
-  Absorbs energy from ambient air, sunlight, wind and rain
-  Very light and easy to install
-  Normally fitted to a wall
-  Can be fitted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



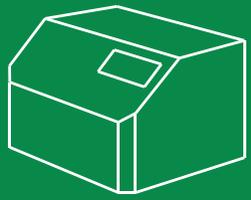
More efficient than 'Traditional Solar Thermal' panels



Suitable for residential property or commercial premises



Sizes available for small to large property types



What  
happens  
next

**STEP  
ONE**



**Assessor's visit**

**STEP  
TWO**



**Surveyor's visit**

**STEP  
THREE**



**Installation**

**STEP  
FOUR**



**Post inspection visit**