







## Unique

We are the first company on the market with a viable product to retro-fit all existing cylinders, heating water up to 55 Degrees Celsius

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

Manufactured in our UK Factory

Specifically tailored for the British climate (To ISO 9001 Standard)

More than 3000 Installations carried out throughout the UK





How much

In recent years, as UK North Sea production has fallen and imports doubled between 2007 and 2011

- The amount we spend on Qatari gas rose from less than £10m in 2005 when recent imports started to over £4bn today
- Issues in the Middle East can cause sudden jumps in the price of gas from Qatar
- Year on year bill-payers were again paying more to import Qatari gas then they were for gas from anywhere else
- This trend is set to continue with Centrica predicting UK gas imports will reach 70-80% by 2020. Many analysts believe the majority of this increase will come from Liquified Natural Gas via ships.





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# In the press



Millions face 'eat or heat' dilemma as energy bills soar

MILLIONS of households will be forced to ration their heating this winter as price hikes of up to 10 per cent hit home, campaigners warned last night.

# <image>



Energy Bills: SSE To Raise Tariffs By 8.2%

A leading figure in industry regulation calls for a "politically independent" inquiry into the market to restore trust. 7:31pm UK, Thursday 10 October 2013







### I he 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 most hot water requirements

Constantly heats water throughout day, night and all seasons, whenever you want

Panel can be fitted south, east or west facing even northeast and northwest

Panel is under 7kg

Aluminum panel is very durable

Can be fitted to a wall

Both sides of the panel absorb energy

Sealed system with R143a gas

Minimal maintenance

#### Traditional Solar Thermal

Needs direct sunlight

will not work at freezing

Provides 30% of hot water requirements

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 roof

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

Provides Hot 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







We Keep Finance Personal INDEPENDENT WARRANTY







How it works



The Aluminum panel circulates the refrigerated liquid where energy is absorbed from the ambient temperature

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

The Little magic 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 Little Magic thermodynamic Box

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

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

Once this is achieved the system goes into standby



# How | it works |







The | panel |





- Made of roll-bond aluminium
- Highly durable (no glass or glycol)
- Delivered nitrogen filled
- Absorbs energy from ambient air
- Also from sunlight, wind and rain
- Very light and easy to install
- Normally fitted to a wall (can fit to roof)
- Can be fitted to any aspect
- Panel is silent in operation

\*two panels will be needed for larger cylinders



# Running costs



drawn when unit is running

Running for 4 hours

a day (on/off)



Standard 4 person household requires 122/150 litres of hot water.\*



consumption is under 2kw per day













#### What STEP STEP ONE TWO • — Assessor's visit Surveyor's visit STEP STEP THREE FOUR Installation Post inspection visit