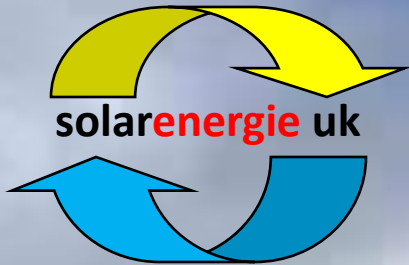




solarenergie uk

THERMODYNAMIC SOLAR PANEL SYSTEM.

SAVING ENERGY BUT NOT COSTING THE EARTH



THE WEATHER IN THE UK IS NOT ALWAYS SUITABLE FOR TRADITIONAL SOLAR PANELS

DURING THE SUMMER TRADITIONAL PANELS WORK WELL, WITH LONG SUMMER DAYS

IN AUTUMN AND WINTER THE DAYLIGHT HOURS ARE SHORTER REDUCED FROM 15 HOURS IN SUMMER TO JUST 7 HOURS IN WINTER.

TRADITIONAL PANELS CAN ONLY WORK WHERE THERE IS SUNLIGHT





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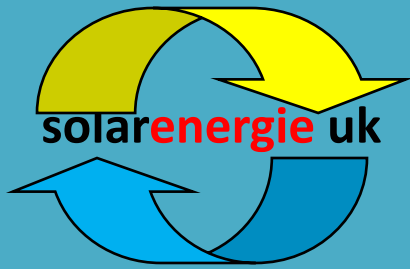
TRADITIONAL PANELS SUCH AS EVACUATED TUBE OR THE LESS EFFICIENT FLAT BED PANELS ARE NOW A THING OF THE PAST

AT BEST THEY

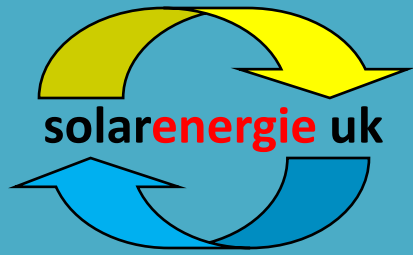
PROVIDE ONLY 50 to 70% OF YOUR HOT WATER.

IN WINTER THEY MUST BE SUPPORTED BY YOUR BOILER

THEY CAN ONLY ASSIST YOUR CENTRAL HEATING SHOULD BE LOCATED ON A SOUTH FACING ROOF FOR BEST PERFORMANCE.



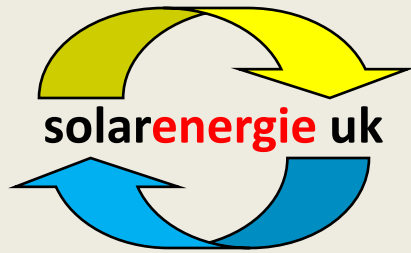
**WELCOME TO THE WORLD OF
THERMODYNAMIC SOLAR PANELS**



**THE ONLY SOLAR PANEL THAT
WORKS BOTH DAY AND NIGHT,
IN RAIN,WIND,SNOW**



**PROVIDING YOU WITH 100% HOT WATER AND
CENTRAL HEATING WHEN EVER YOU NEED IT**

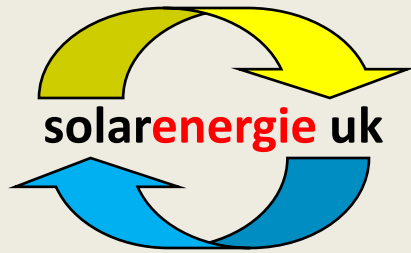


**WOULDN'T IT BE FANTASTIC TO
HAVE ALL YEAR ROUND HOT WATER
WITHOUT PAYING FOR THE ENERGY
USED**

**FREE HOT WATER 24 HOURS A DAY
365 DAYS A YEAR.**

**NIGHT AND DAY GENERATION OF
HOT WATER WITHOUT THE ENERGY
BILL**

**HEATING YOUR WATER WHILE YOU
SLEEP WITH COMPLETE PEACE OF
MIND THAT YOU CAN WAKE UP TO
THAT RELAXING BATH OR SHOWER
BROUGHT TO YOU BY
THERMODYNAMIC SOLAR ENERGY**



BETTER STILL

**HEAT YOUR HOME FOR FREE WITH
THERMODYNAMIC SOLAR ENERGY**

**NO MORE WINTER BILLS TO WORRY
ABOUT.**

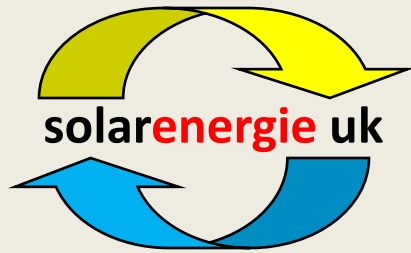
**NO MORE SETTING THE HEATING TO
COME ON AND OFF TO KEEP THE
COSTS DOWN.**

**KEEP THE RADIATORS ON FULL 24
HOURS A DAY IT'S FREE ENERGY.**

**THERMODYNAMIC PANELS MAKE
ALL OTHER THERMAL PANELS
OBSOLETE.**

**24/7 HOT WATER AND CENTRAL
HEATING WHEN EVER YOU NEED IT.**





A ONE TIME INVESTMENT FOR A LIFETIME OF SAVINGS



**HAVE A BIGGER HOT WATER
REQUIREMENT DON'T
WORRY**

**THERMODYNAMIC SOLAR
SYSTEMS CAN HEAT
UP TO 180 CUBIC METRES
OF SWIMMING POOL
OR
6,000 LITRES OF HOT WATER**

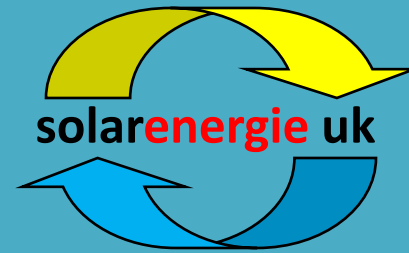
**THERMODYNAMIC PANELS CAN MEET ALL OF YOUR HOT WATER NEEDS IN ONE
COMPLETE SYSTEM AND WHEN IT'S NOT HEATING YOUR POOL ITS HEATING YOUR
HOME**

AMAZING THAT'S

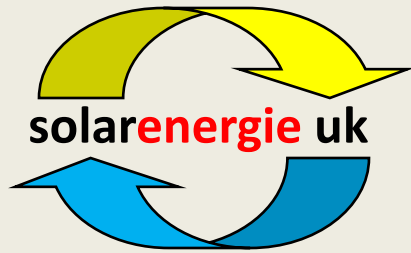
HOT WATER 24/7

CENTRAL HEATING ON DEMAND

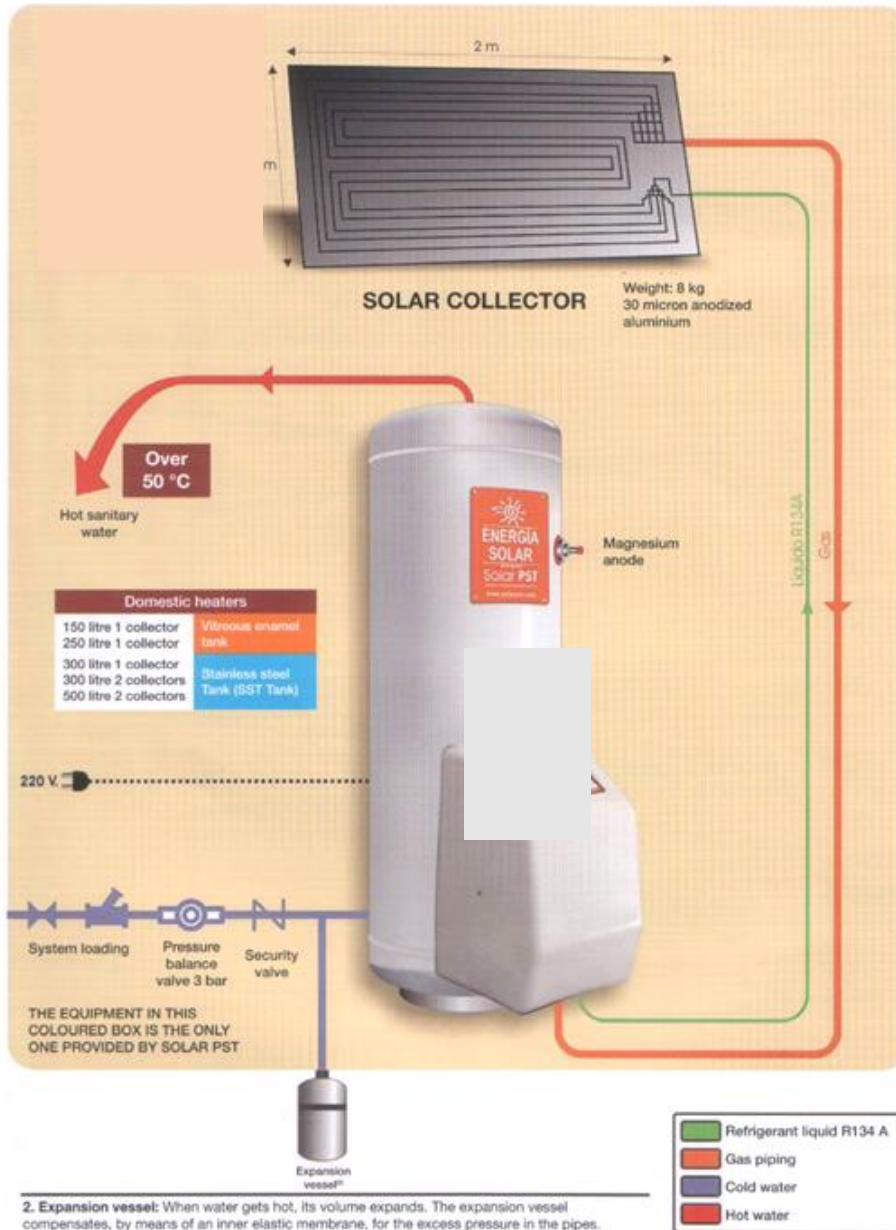
HEAT YOUR POOL OR LARGE VOLUME DEMAND



**THERMODYNAMIC SOLAR SYSTEMS THE
FUTURE OF SOLAR ENERGY**



WHY ARE THERMODYNAMIC PANELS SO AMAZINGLY EFFICIENT ?



UNLIKE ALL OF THE TRADITIONAL SOLAR THERMAL SYSTEMS THE THERMODYNAMIC SOLAR SYSTEM USES “REVERSE REFRIGERATION TECHNOLOGY” THE CARRIER FLUID IS NOT WATER OR GLYCOL BUT A HARMLESS NONE TOXIC REFRIGERATION GAS

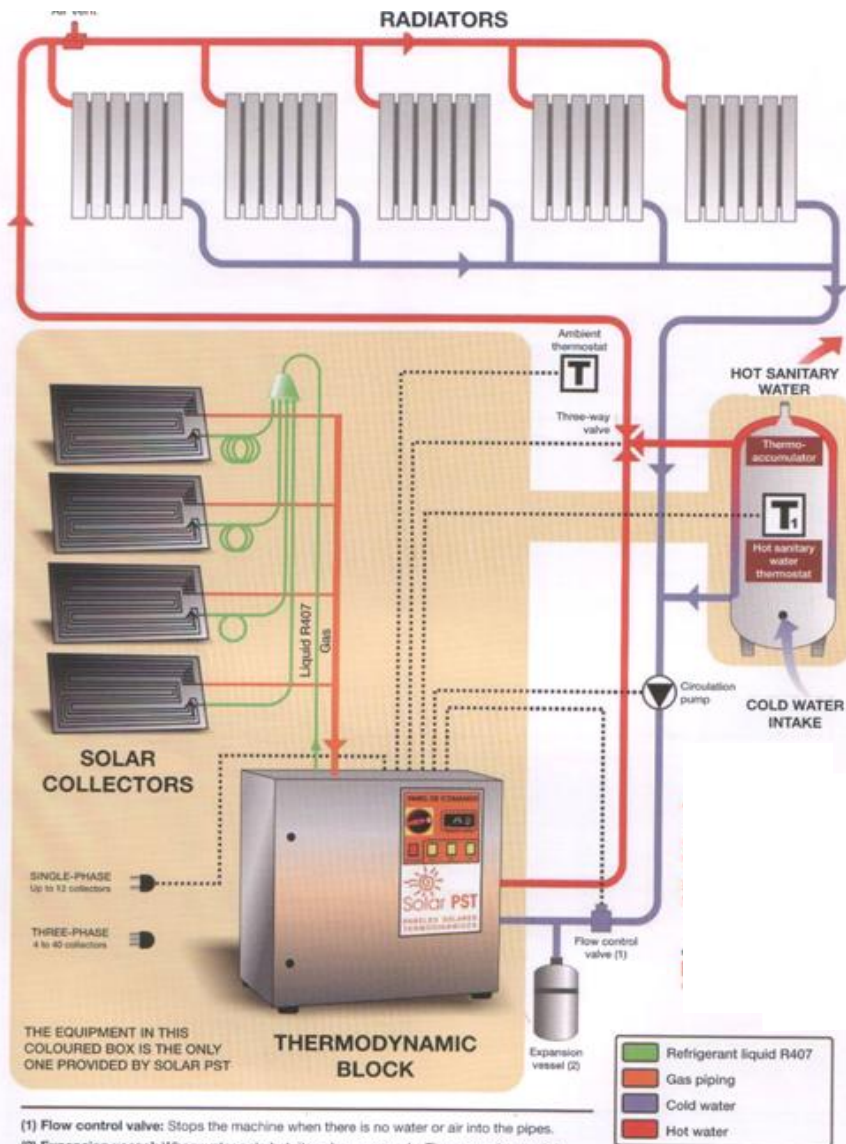
THE SAME AS IN YOUR HOME REFRIGERATOR

THE REFRIGERATION LIQUID IS CHANGED INTO A GAS IN THE PANEL THIS THEN PASSES TO THE THERMAL BLOCK WHICH COMPRESSES THE GAS IN DOING SO THE GAS IS HEATED

THIS PASSES TO A THERMAL EXCHANGER IN THE TANK

THE WATER IN THE TANK IS THEN HEATED

THE COOLED REFRIGERATION GAS RETURNS TO THE PANEL FOR THE PROCESS TO BE REPEATED



(1) **Flow control valve:** Stops the machine when there is no water or air into the pipes.
 (2) **Expansion vessel:** When water gets hot, its volume expands. The expansion vessel compensates, by means of an inner elastic membrane, for the excess pressure in the pipes.

IN LARGER HOT WATER AND CENTRAL HEATING SYSTEMS MORE PANELS ARE REQUIRED TO MANAGE THE HIGH HEAT DEMAND

THE THERMAL BLOCK IS A “STAND ALONE” UNIT THAT HAS IT’S OWN HEAT EXCHANGER .

THE HEATED WATER CAN THEN BE CIRCULATED THROUGH A COIL WITHIN THE DOMESTIC HOT WATER TANK

BECAUSE OF THE LARGER VOLUME OF WATER PRODUCED IT IS OFTEN NECESSARY TO INSTALL A LARGER HOT WATER TANK THUS PROVIDING A LARGER AMOUNT OF HOT WATER

THE HOT WATER LEAVING THE THERMAL BLOCK IS ALSO ROUTED THROUGH THE CENTRAL HEATING.

LIKE MOST BOILERS PRIORITY IS GIVEN TO HOT WATER BEFORE CENTRAL HEATING.

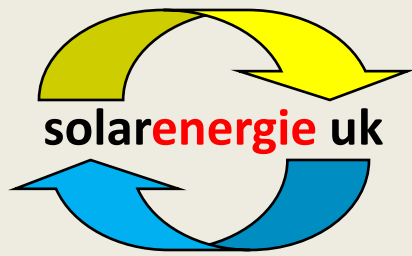
Let's compare the benefits against a typical standard solar panel

Standard panel

Provides up to 70% of your hot water
Must be mounted on a south facing roof for best results
Needs back up from boiler or immersion heat
Needs sunlight to perform, lower performance in winter
Can only assist your central heating
Being made from glass panels can be accidentally broken

Thermodynamic Panel

Provides 100% of your hot water day and night all weather
Can be mounted south, east, west and even on a wall
Requires no back up at all. Not connected to your boiler
Works day & night, wind, rain, hail 24/7 summer & winter
Can provide 100% central heating
Made from aluminium, tough, non corrosive .long life

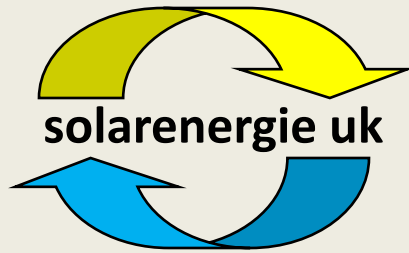


IS IT NEW, WHY HAVEN'T I SEEN THIS SYSTEM BEFORE?

NO IT'S NOT NEW, THIS VERY UNIQUE PRODUCT HAS BEEN INSTALLED IN EUROPE FOR OVER 20 YEARS MORE RECENTLY IT WAS INTRODUCED TO IRELAND SOME 4 YEARS AGO WHERE IT IS GAINING IN POPULARITY. OVER 10,000 HOMES IN EUROPE HAVE BENEFITTED FROM THIS SYSTEM

THE DESIGNER AND MANUFACTURER ARE BASED IN PORTUGAL AND HOLD THE PATENT AND THEREFORE THE SYSTEM CANNOT BE COPIED. LIMITING ITS DISTRIBUTION

IT IS ONLY RECENTLY BEEN INTRODUCED TO THE UK AND WITH SOLARENERGIE UK SUPPORT WE HOPE WILL BECOME THE PREFERRED SOLUTION TO EVER INCREASING ENERGY BILLS FOR HOT WATER DEMAND AND CENTRAL HEATING.



EXTRACT FROM THE HOUSE DOCTOR DAILY TELEGRAPH

Q I'm considering installing solar panels but I'm told that a new technology will soon be available that makes current models obsolete. Should I wait? **M W, Bath**

A You don't have to. It's here already and is already available in the UK..

These are 8kg panels filled with a pressurized refrigerant fluid, which absorbs energy from the atmosphere as it circulates through the panel.

This raises the temperature from -4F (-20C) to 41-50F (5-10C). This heat is then harvested by a heat exchanger for both domestic hot water and under floor heating.

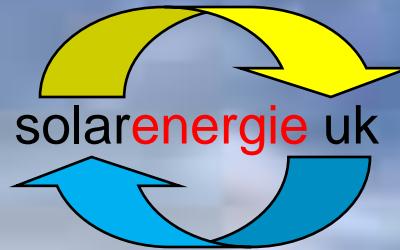
Unlike other systems, it works day and night. On test, with 75mm of snow and outside air temperatures of 21F (-6C), one managed to raise the temperature within a 200-litre cylinder to 131F (55C).

A one-panel system, including the cylinder, for domestic hot water should cost between £6,000 and £8,000, installed.

A four-panel, whole-house apparatus to supply hot water and central heating would probably cost between £11,000 and £15,000, which compares favourably with other systems and is much cheaper than a heat pump.

I'm often scathing about the payback from this kind of technology, but with a maximum efficiency of up to 500 per cent, this begins to make sense.

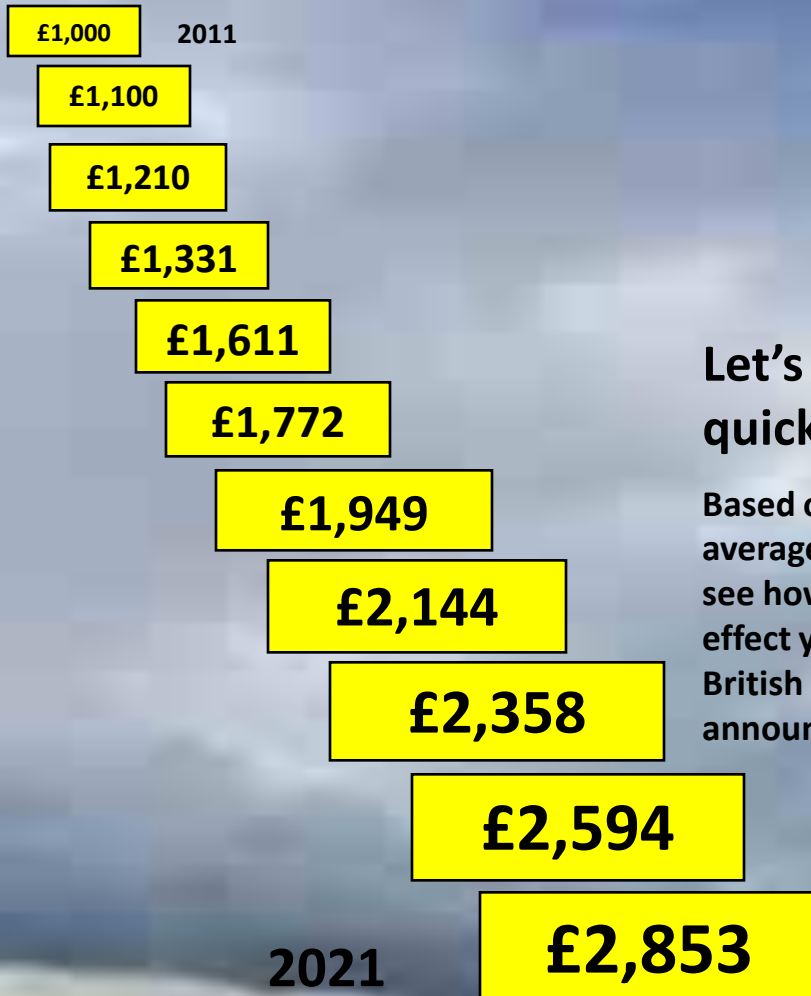
MODIFIDE TO REFLECT TRUE INSTALATION COST

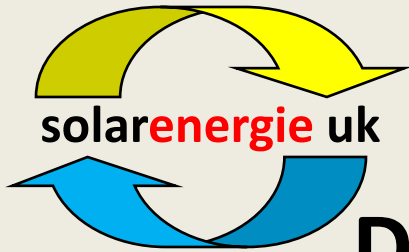


Let's look at how gas prices can quickly snowball out of control

Based on spending £1,000 on gas this year and an average increase of just 10% each year you can see how the rise in gas prices will seriously effect your savings.

British Gas and Scottish Southern have just announced rises of up to 9% this year.

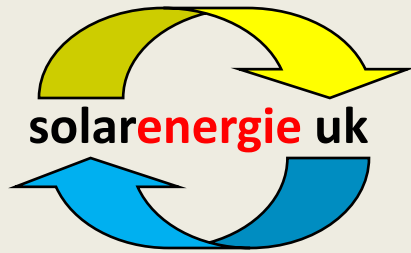




Don't take our word for it

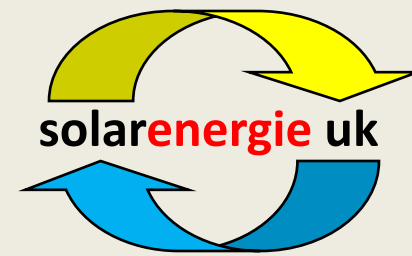
Here are some of the comments that owners of a thermodynamic system have made.

- “It's great to not to have to worry about turning on the immersion now, the hot water is just always there .Lorna Hopkins.
- There used to be constant arguments here, as to who had the next shower, but that is no longer an issue. There is enough hot water to go around.” David Baker.
- The system works even when it is frosty outside, I did not believe that it would offer us all of our hot water requirements, but it has. In cold weather and hot.” Monica Hawker.
- The system you installed has been working successfully for the last number of months now and it allows all four of us to have enough hot water in the morning for a shower and there is still some left after that. We also use the water around lunch hour and again in the evening. We have also availed of showers in the evening and it is good to know that even if the weather is dull or wet we still get hot water. You guys did a very good job installing the unit and I expected more of a mess but was pleasantly surprised with the end result”. Andrew Fox.



Even when the temperature dropped to minus 7C this remarkable Thermodynamic panel still produced hot water at 55C

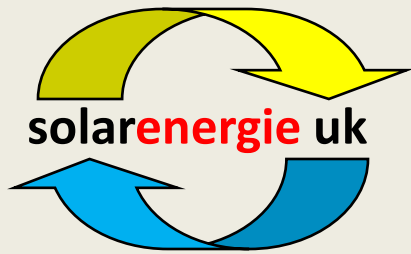




This versatile system out performs all other solar hot water systems.

Systems as shown can be installed in high rise apartments as shown in this photograph





36 McDonald Restaurants Equipped with Thermodynamic panels in Spain

Solar System: 36 x Eco300is

Application: DHW

Number of collectors: 2

Hot Water Cylinder: Stainless Steel

Surface: 3,2 m²

Number of Litres: 500 l/day

After having 3 trial units for a year period the world famous restaurant chain McDonalds installed 36 thermodynamic solar systems at their restaurants in Spain.





Building at Maia, Portugal - Winner of the SHE prize

Solar System: 11 x Eco3000

Application: DHW

Number of collectors: 132

Hot Water Cylinder: Stainless Steel

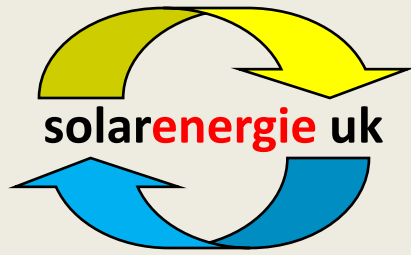
Surface: 211,2 m²

Number of Litres: 27,5 m³

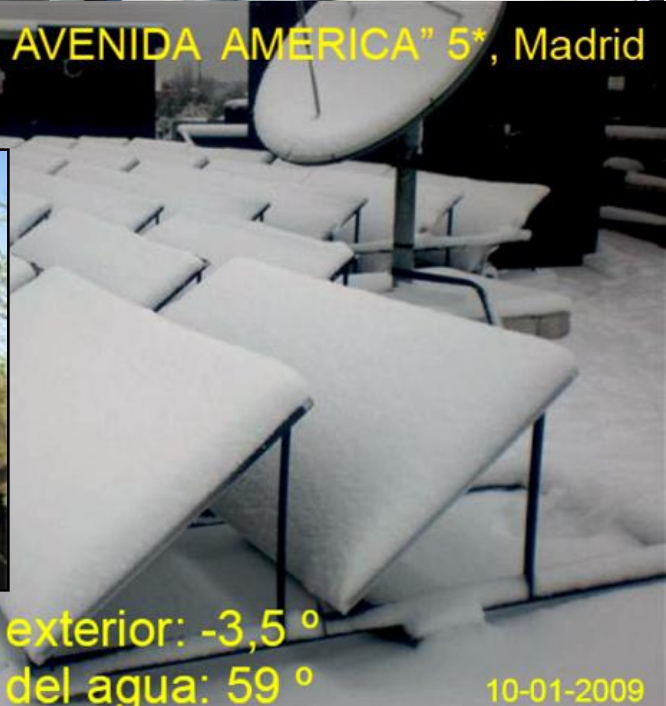
The project was recently awarded with the prize for Energy Efficiency, in Public-private category by the Directorate-General for Energy and Transport of the European Commission.

The development consists of 11 blocks with 101 apartments, T2 and T3. Along with the project was considered the use of an energy efficiency system for DHW. The choice made was for thermodynamic solar systems due to its reliability and performance. Each one of the 11 buildings is equipped with an Eco3000 with 12 solar panels and a water cylinder of 3000lts.



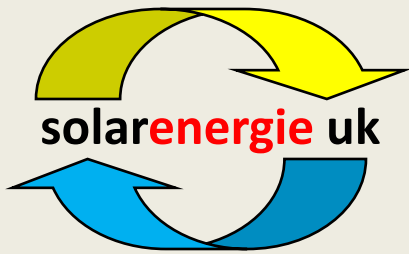


Hotel "MELIA AVENIDA AMERICA" 5*, Madrid



Temperatura exterior: $-3,5^{\circ}$
Temperatura del agua: 59°

10-01-2009



So the choice is yours!

Why invest in a system that provides only 50-70% of your hot water demand?

Why invest in a system that only works in daylight?

Why invest in a system that its performance is greatly reduced in winter months and on days with low light?

Why invest in a system that requires you to use a boiler or immersion heater to support it, costing you money?

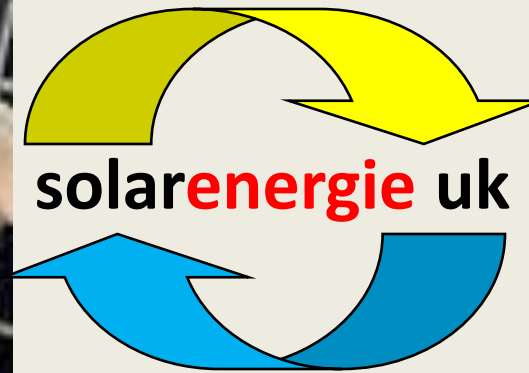
When you can invest in Thermodynamics providing 100% of your hot water 24/7

When you can invest in Thermodynamics that works DAY & NIGHT.

When you can invest in Thermodynamics that works any weather any season any time of the day.

When you can invest in Thermodynamics that requires no support from any boiler or immersion heater, Saving you maximum money

A ONE TIME INVESTMENT FOR A LIFETIME OF SAVINGS



**THERMODYNAMIC SOLAR SYSTEMS THE
FUTURE OF SOLAR ENERGY**



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