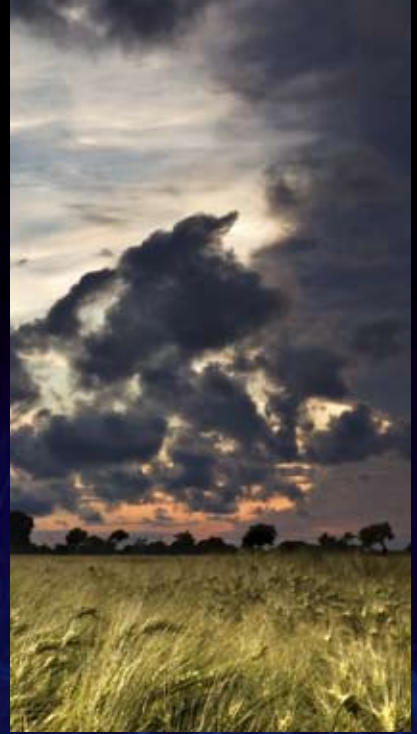


supplying the leading
thermodynamic solar energy system

the **solar** system that
works in **sun, rain,**
cloud and **night**



ECONOMICAL | ECOLOGICAL | EFFICIENT

the solar system...

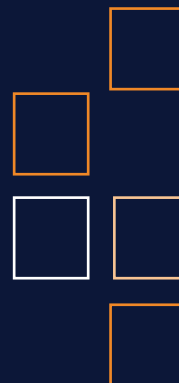
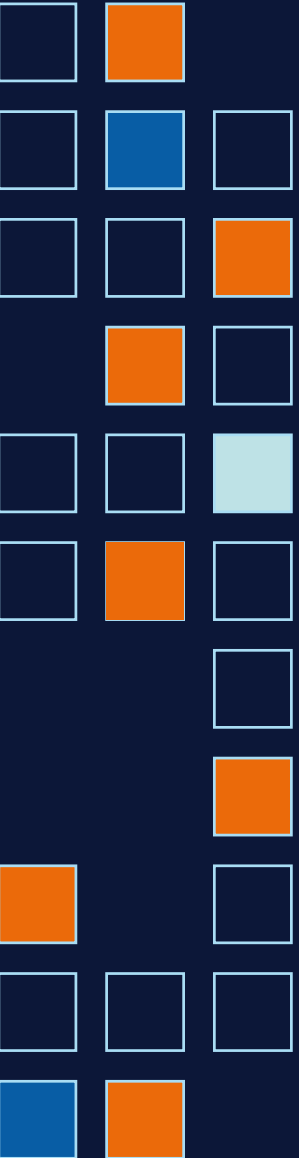
The sun does not always shine, especially in northern Europe; this is particularly true in Britain. In the winter, on average it is only light for seven hours a day, with only three or four hours of sunshine. This places severe limitations on the operation of traditional solar panels, including the latest evacuated tube type collectors.

The Energie system uses the highly energy efficient thermal solar technology based on the principle of the French physicist Nicholas Carnot, who discovered thermodynamics in 1840. Thanks to this principle, the thermodynamic solar panels are capable of extracting heat from the atmosphere during periods of sunshine, in rain, wind and even during the night. No other type of solar panel is capable of generating hot water 24 hours a day, 365 days of the year.

The eco-friendly fluid (refrigerant) enters the panel as a cold pressurised liquid. As it circulates inside the panel it absorbs heat from the atmosphere and becomes a gas. When the gas leaves the panel it is very warm. The warm gas then passes through a heat exchanger coil inside the water cylinder and gives up its heat to the water. Using a refrigerant in the panels instead of water is the secret of the success of this system.

This single feature enables the system to harvest heat from the atmosphere at a far higher efficiency and at much lower ambient temperatures than conventional water filled solar panels.

This facility, by which we link technology to a natural law, demonstrates the veracity and potential of the Energie solar system.



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MAIN FEATURES:

- > Heats water to 55°C all year round
- > Works in sun, wind, rain and at night
- > Outstanding thermal efficiency
- > Robust aluminium panels weigh only 8kg
- > Straightforward installation, minimal maintenance
- > Can be mounted vertically on walls
- > Suitable for domestic and commercial applications
- > Significantly reduces carbon emissions





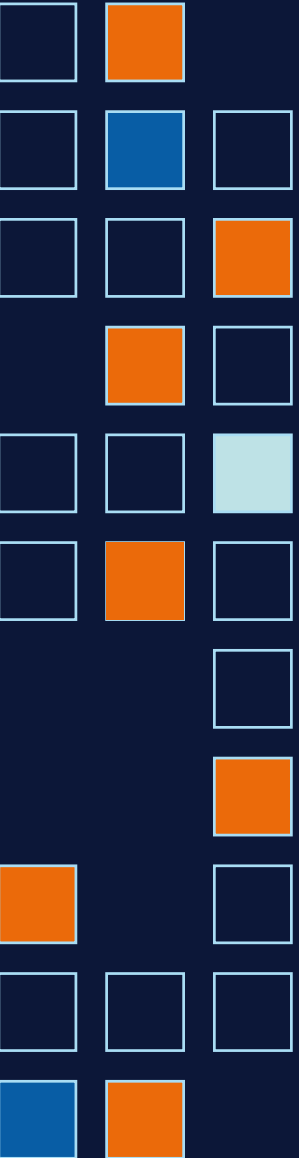
Domestic Hot Water

Domestic Hot Water 365 days of the year. This system will still work during rainy and cloudy conditions that are common in northern Europe. It even works at night – although it takes a little longer to heat the water.

Energie offers you the opportunity to benefit from the production of sanitary hot water at up to 55°C with a very high efficiency and low energy consumption.

For example a 200 litre system with one panel will only consume 600 watts of electricity and yet can give out up to 1690 watts of heating. As well as the ecological and economic benefits the reliability of the system is proven by the thousands of systems already installed. Maintenance is practically non-existent, guaranteeing absolute peace of mind.

The revolutionary principle employs a refrigerant in the panels instead of the traditional panels that use water. This application of cutting edge technology and greater thermal efficiency in comparison with other water filled solar systems makes the Energie thermodynamic solar system the latest generation in solar energy for water heating.



Model	Cap. (L)	No. Panels	Height (mm)	Diameter (mm)	Min. Power Absorbed (w)	Max. Thermal Power (w)	Nbr. of People
Eco 280	250	1	1.650	550	390	1.690	4/5
Eco 200	200	1	1.400	550	390	1.690	3
Eco 200 IS	200	2	1.400	550	595	2.800	4
Eco 300	300	1	1.800	550	390	1.690	5
Eco 300 IS	300	2	1.800	550	595	2.800	6
Eco 500	500	2	1.950	800	595	2.800	8

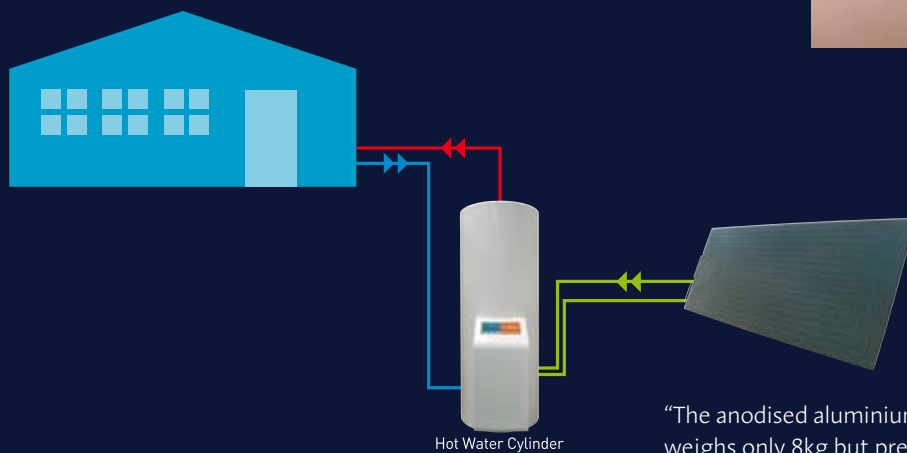
Eco 250	250	1	1.508	584	390	1.690	4/5
Eco 300	300	1	1.800	550	390	1.690	5

Hot Water Cylinder dimensions

Stainless steel Hot Water Cylinder
Enamelled Hot Water Cylinder



HOT WATER CYLINDER WITH INTEGRAL HEAT EXCHANGER



“The anodised aluminium collector weighs only 8kg but presents 3.2 m² of collector area, by utilising both sides of the panel.”

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thermodynamic solar energy system

Heating Your Home

Let comfort and low energy consumption be a new part of your life.

UNDERFLOOR HEATING OR TRADITIONAL RADIATORS - Use clean and free energy

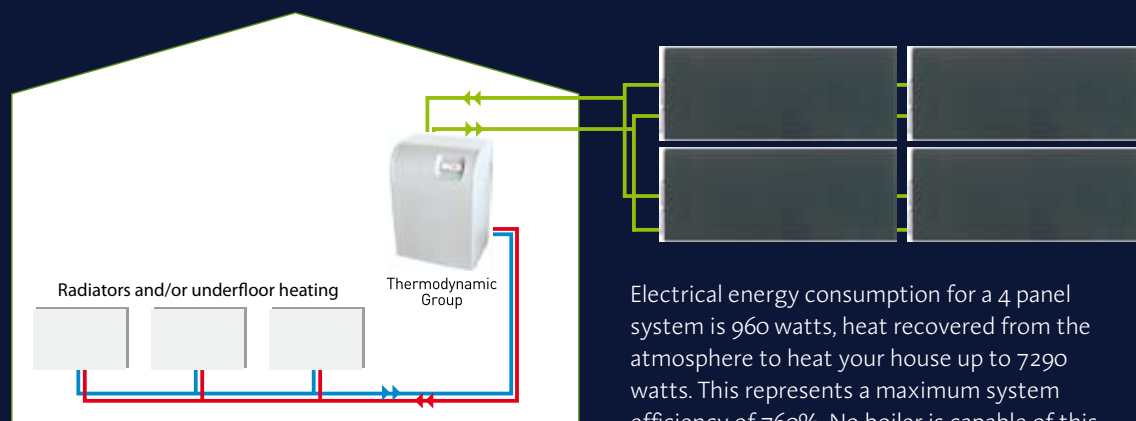
These systems are capable of extracting sufficient warmth to heat a building to a comfortable temperature even on the coldest winter days. Even the very best modern gas or oil boiler can only achieve maximum efficiency levels of 95%, the Energie solar system has a much higher efficiency; this translates into the use of clean, secure and free energy.

The Energie solar systems can alternate between heating the water in your swimming pool in spring, summer and autumn and heating your house during winter. In this way it optimises your resources and those of nature, paying back your investment in a short space of time whilst contributing to a better environment.



Model	No. Panels	Good Insulation	Poor Insulation	Min. Power Absorbed (w)	Max. Thermal Power (w)	Water Flow m ³ /h
Solar Block 4	4	270	150	960	7.290	0.5
Solar Block 6	6	350	200	1.230	9.680	0.7
Solar Block 8	8	425	250	1.440	11.240	0.8
Solar Block 12	12	600	350	2.010	16.580	1
Solar Block 16	16	900	450	3.210	24.210	1.5
Solar Block 24	24	1.100	700	4.140	31.430	2.8
Solar Block 32	32	1.500	900	5.690	42.600	4
Solar Block 40	40	2.000	1.300	7.630	52.970	5

Heating Volume (m³)



Electrical energy consumption for a 4 panel system is 960 watts, heat recovered from the atmosphere to heat your house up to 7290 watts. This represents a maximum system efficiency of 760%. No boiler is capable of this level of efficiency.

Swimming Pool Heating

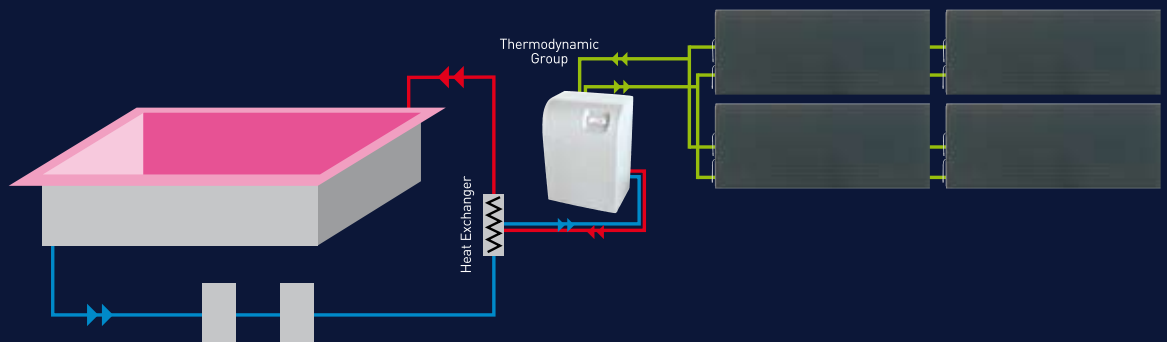
Live life to the full – all year round.

WARM WATER NO MATTER WHAT THE WEATHER

Energie offer you the chance to use your pool all year – round, with low energy consumption. Choosing thermodynamic solar energy to heat your pool is to opt for a reduction in maintenance costs and for a healthier environment.

The ease and flexibility of installation allows the replacement of your traditional boiler or other low efficiency heat source. Our experience in the production and installation of these solar systems is the guarantee of service that is led by dedication and the quality of our products.

Model	No. Panels	Min. Power Absorbed (w)	Max. Thermal Power (w)	Pool Dimensions
Solar Block 4	4	960	7.290	10m ² ou 20m ³
Solar Block 6	6	1.230	9.680	15m ² ou 25m ³
Solar Block 8	8	1.440	11.240	20m ² ou 30m ³
Solar Block 12	12	2.010	16.580	40m ² ou 55m ³
Solar Block 16	16	3.210	24.210	60m ² ou 80m ³
Solar Block 24	24	4.140	31.430	80m ² ou 120m ³
Solar Block 32	32	5.690	42.600	120m ² ou 150m ³
Solar Block 40	40	7.630	52.970	150m ² ou 180m ³



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Large Volume Water Heating

Feel the comfort all around you.

LATEST GENERATION OF SOLAR ENERGY

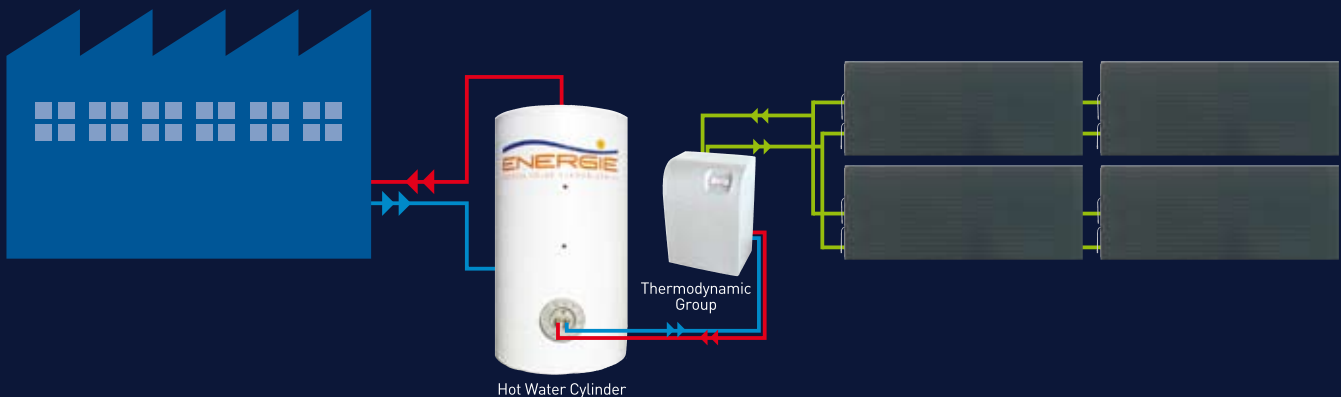
Efficiency and economy are the principal factors to consider when heating large volumes of water. The Energie system, as well as being a system that guarantees low energy consumption, allows the water temperature to be raised to 55°C.

The flexibility of the installation allows easy replacement of traditional boilers, thereby significantly reducing the costs of producing hot water. The Energie systems for heating large volumes of water are suitable for installation in hotels, shopping centres, food processing factories, restaurants, clinics, schools and municipal government buildings.



Model	Cap. (L)	No. Panels	Height (mm)	Diameter (mm)	Min. Power Absorbed (w)	Max. Thermal Power (w)
Eco 500	500	2	1.830	650	595	2.800
Eco 750	750	4	2.135	750	960	7.290
Eco 1000	1.000	4	2.185	850	960	7.290
Eco 1500	1.500	6	2.460	950	1.230	9.680
Eco 2000	2.000	8	2.520	1.100	1.440	11.240
Eco 3000	3.000	12	2.900	1.250	2.010	16.580
Eco 3000 E	3.000 E	16	2.900	1.250	3.210	24.210
Eco 4000	4.000	24	2.960	1.450	4.140	31.430
Eco 5000	5.000	32	3.030	1.600	5.690	42.600
Eco 6000	2 x 3.000	40	2 x 2.900	2 x 1.250	7.630	52.970


Hot Water Cylinder dimensions



YOUR NEXT STEP...

Contact us now to discuss your requirements or for a free, no-obligation quotation. Our sales and technical teams will be happy to help in choosing the right system for you.




ENERGIE[®]
THERMODYNAMIC SOLAR ENERGY


thermal reflections[™]
UNDERFLOOR HEATING SYSTEMS

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