



Feel the comfort
all around you



HEATING LARGE VOLUMES

Last generation of solar energy

Efficiency and economy are the principal factors to take into account when there is a need to heat 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 reducing the costs of producing hot water. The thermodynamics solar systems for heating large volumes of water are installed in hotel complexes, shopping centres, food processing factories, restaurants, clinics, schools and social security institutions.

Model	Cap. (L)	Nbr. 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



The sun does not always shine. In the winter, on average, it is only light for seven hours a day, with only three or four hours of sun, which places limits on the operation of traditional solar panels.

The **Energie** thermodynamic solar panels go beyond this limit by allowing the water temperature to be raised highly efficiently and economically, on rainy days or even at night.

The thermodynamic solar systems use the highly energy-efficient thermal solar technology, based on the principle of French physicist Nicolas Carnot, who discovered thermodynamics in 1840. Thanks to this principle, thermodynamic solar panels are capable of capturing the heat of the sun, in rain and wind, 24 hours a day, 365 days a year.

The ecological liquid that circulates in a closed circuit, at sub-zero temperatures, captures the heat from solar panels and then releases it into the water through a heat exchanger.

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

PEDRO MONTEIRO DESIGN

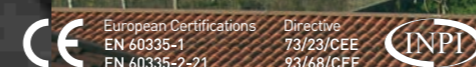


the futur
dynamics



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European Certifications
EN 60335-1
EN 60335-2-21

Directive
73/23/CEE
93/68/CEE



Thermodynamic Solar Energy

economic
ecological
efficient



Find your true self
in a unique environment



Let comfort
into your life



Live life to the full
all year round



DOMESTIC HOT WATER

Hot water 365 days of the year

Energie offers you the chance to benefit from the production of Sanitary Hot Water, at up to 55°C, with high-energy efficiency and without releasing CO₂ into the atmosphere. As well as its ecological and economic benefits, the reliability of the system is demonstrated via the thousand of systems already installed. Maintenance is practically non-existent, guaranteeing absolute peace to the user. The revolutionary principle, the application of cutting-edge technology and principally its economy in comparison with traditional solar systems, make the Energie thermodynamic solar system the latest generation in solar energy for water heating.

Model	Cap. (L)	Nbr. 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

Hot Water Cylinder dimensions

Stainless Steel Hot Water Cylinder
Enamelled Hot Water Cylinder



CENTRAL HEATING

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. While traditional boilers only have efficiency levels below 1, the **Energie** solar system has much greater efficiency, which translates into the use of clean, secure and free energy. The **Energie** solar systems can alternate between heating the water in your swimming pool during the spring, autumn and summer, and heating your house during the winter. In this way, it optimises your resources and those of nature, paying back your investment in a short space of time and contributing to a better environment.

Model	Nbr. 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]



HEATING SWIMMING POOLS

Warm water no matter what the weather

Energie offers you the chance to use your pool year-round, with low energy consumption. Opting for 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 boiler or other heat source. Our experience in the production and installation of these solar systems is the guarantee of the service that is led by dedication and the quality of our products.

Model	Nbr. Panels	Min. Power Absorbed (w)	Max. Thermal Power (w)	Pool Dimensions
Solar Block 4	4	960	7.290	10m ² ou 20m ²
Solar Block 6	6	1.230	9.680	15m ² ou 25m ²
Solar Block 8	8	1.440	11.240	20m ² ou 30m ²
Solar Block 12	12	2.010	16.580	40m ² ou 55m ²
Solar Block 16	16	3.210	24.210	60m ² ou 80m ²
Solar Block 24	24	4.140	31.430	80m ² ou 120m ²
Solar Block 32	32	5.690	42.600	120m ² ou 150m ²
Solar Block 40	40	7.630	52.970	150m ² ou 180m ²

We reserve the right to make any changes without previous notice.

