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. 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.

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 55ºC. The flexibility of the installation allows easy replacement of traditional boilers, thereby reducing the costs of producing hot water. Thermodynamic solar systems for heating large volumes of water are installed in hotel complexes, shopping centers, schools, restaurants, clinics, social security institutions, and even in large agricultural fields.
Energie offers you the chance to benefit from the production of Sanitary Hot Water, at up to 55ºC, with high-energy efficiency and without releasing CO\textsubscript{2} 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.

**DOMESTIC HOT WATER**

<table>
<thead>
<tr>
<th>Cap. (L)</th>
<th>Min. Power Absorbed (w)</th>
<th>Nbr. Panels</th>
<th>Max. Thermal Power (w)</th>
<th>Nbr. of People</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>Diameter (mm)</td>
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**CENTRAL HEATING**

Use clean and free energy

These systems are capable of heating 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.

**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.

**Find your true self in a unique environment**

**Let comfort into your life**

**Live life to the full all year round**