State-of-the-art technology that offers optimum performance

Solar PST relies on energy that is natural, clean, free and inexhaustible, by developing the only solar system capable of heating SANITARY WATER, SWIMMING POOLS AND CENTRAL HEATING all year round, under adverse weather conditions, even at night.

How does the state-of-the-art Solar PST technology work?

Based on the laws of thermodynamics, discovered by the French physicist Carnot in 1840, the groundbreaking Solar PST technology guarantees high performance not only by capturing solar radiation, but also by absorbing the ambient heat present in air, wind and rain, without depending on a backup system (ambient temperature >0°C).

According to the properties of thermodynamics, Solar PST systems use an environmentally friendly cooling liquid, that flows through the panel at a low temperature (-10°C). As it absorbs ambient heat through the collector, its state changes (liquid/gas) until it reaches a compressor. This compressor raises the temperature of the gas and transfers the heat to the water through a heat exchanger, and in this way the temperature rises as high as 50°C.

A natural, clean and inexhaustible energy source available all year round.

- Overcoming the limitations of other renewable energy systems
- Energy saving of up to 80%, covering 100% of your needs

Environmentally friendly, non-corrosive, non-toxic, inexhaustible, chlorine and ammonia free, chemically stable and resistant.
The panel: the essence and the technological solution of the PST system

Thanks to its features, the Solar PST panel is the only solar panel that is capable of functioning whether it is sunny, rainy, windy, cloudy and even at night.

High quality

- **High quality standards**: A “roll bond” panel made from 30 micron anodised aluminium that guarantees a useful life of over 25 years.
- **Unique design**: for all types of applications.
- **Optimizing the absorption area**: 3.20m in one single panel that captures heat on both sides.
- **Resistant** to corrosion and adverse weather conditions.

Integration

- **Can be placed anywhere**: roofs, façades, gardens, balconies… We recommend placing it horizontally and exposed to the sun, wind and rain. Possible orientation: 30° to 90°.
- **Reduced size and weight**: 2.00m x 0.80m x 2cm and 8Kg. It is not necessary to reinforce the surface where it will be installed.
- **Aesthetically adaptable** to any architectural context. Its black colour finish improves its heat absorption capacity.
ENVIRONMENTALLY FRIENDLY: we propose that you collaborate with us to build a more sustainable future

Unlike existing renewable technologies, the Solar PST system is AUTONOMOUS and represents the main heating system for the production of hot water with outdoor temperatures above 0°C, thus contributing to the reduction of CO₂ emissions.

COST-SAVING: we guarantee the return of your investment

The average payback time for our units is of 4 years, but the greater the use of hot water, the shorter the payback period and the greater the cost saving, compared to conventional systems.

By covering your needs by 100% you will save up to 80% on your hot water/heating bill.
**RELIABLE:**
An innovative system adopted by thousands of users for domestic and industrial purposes

Patented and certified technology that responds to the most demanding market regulations and criteria, providing the systems with a useful life above 25 years, thanks to its components of quality and repute.

**VERSATILITY:**
When technology has a number of virtues

- **Systems that are easily adaptable** to your current installation, without the need for major alterations.
- **One single Solar PST unit can satisfy various uses:** sanitary water, central heating and swimming pool water heating.
- For higher temperature demands (70°C, 80°C) **the PST systems ensure the water is preheated** to 50°C representing considerable cost saving.
- **Low noise level** thermodynamic blocks; they can be fitted anywhere without reducing comfort.
- **Integration** within any architectural context thanks to their exclusive design and the possibility of including plant ornamentation between panels, overlapping, etc…
SANITARY HOT WATER LINE

Solar PST system
- Storage tank made from stainless steel or vitrified steel with capacity between 850 litres to 6,000 litres.
- Thermodynamic block with serpentine tube heat exchanger
- 4 to 40 Thermodynamic Solar Panels
- Panel mounting rails

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of panels</th>
<th>Capacity (L)</th>
<th>Power (Watts)</th>
<th>Output power (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST 4 ACS</td>
<td>4</td>
<td>800 / 1.000</td>
<td>960 - 1.800</td>
<td>3.600 - 7.290</td>
</tr>
<tr>
<td>PST 8 ACS</td>
<td>8</td>
<td>1.000 / 1.500 / 2.000</td>
<td>1.440 - 2.625</td>
<td>5.500 - 11.240</td>
</tr>
<tr>
<td>PST 12 ACS</td>
<td>12</td>
<td>1.500 / 2.000</td>
<td>2.010 - 3.120</td>
<td>9.215 - 16.580</td>
</tr>
<tr>
<td>PST 16 ACS</td>
<td>16</td>
<td>2.000 / 3.000</td>
<td>3.210 - 5.156</td>
<td>14.190 - 24.200</td>
</tr>
<tr>
<td>PST 24 ACS</td>
<td>24</td>
<td>3.000 / 4.000</td>
<td>4.140 - 6.025</td>
<td>16.495 - 31.430</td>
</tr>
<tr>
<td>PST 32 ACS</td>
<td>32</td>
<td>3.000 / 4.000</td>
<td>5.690 - 8.300</td>
<td>24.090 - 42.600</td>
</tr>
<tr>
<td>PST 40 ACS</td>
<td>40</td>
<td>4.000</td>
<td>7.100 - 10.150</td>
<td>32.540 - 52.970</td>
</tr>
</tbody>
</table>

The electric consumption corresponds to water temperature between 30ºC to 50ºC. The power generated corresponds to the solar radiation on the panel.

<table>
<thead>
<tr>
<th>Storage tank model</th>
<th>Vol. (Litres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST 800-A</td>
<td>800</td>
</tr>
<tr>
<td>PST 1000-A</td>
<td>1.000</td>
</tr>
<tr>
<td>PST 1500-A</td>
<td>1.500</td>
</tr>
<tr>
<td>PST 2000-B</td>
<td>2.000</td>
</tr>
<tr>
<td>PST 3000-B</td>
<td>3.000</td>
</tr>
<tr>
<td>PST 4000-B</td>
<td>4.000</td>
</tr>
</tbody>
</table>

All the Solar PST systems are compatible with conventional water heating installations.
CENTRAL HEATING LINE

Solar PST system
- Thermodynamic block with plate heat exchanger panel
- 4 to 40 Thermodynamic Solar Panels
- Panel mounting rails
- A thermal inertia storage tank may be installed, depending on project.

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of panels</th>
<th>Floor area</th>
<th>Power (W)</th>
<th>Generated heat power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST 4C</td>
<td>4</td>
<td>60m²</td>
<td>960 - 1.800</td>
<td>3.600 - 7.290</td>
</tr>
<tr>
<td>PST 6C</td>
<td>6</td>
<td>80m²</td>
<td>1.230 - 2.220</td>
<td>4.900 - 9.680</td>
</tr>
<tr>
<td>PST 8C</td>
<td>8</td>
<td>110m²</td>
<td>1.440 - 2.625</td>
<td>5.500 - 11.240</td>
</tr>
<tr>
<td>PST 12C</td>
<td>12</td>
<td>120m²</td>
<td>2.010 - 3.120</td>
<td>9.215 - 16.580</td>
</tr>
<tr>
<td>PST 16C</td>
<td>16</td>
<td>190m²</td>
<td>3.210 - 5.156</td>
<td>14.190 - 24.200</td>
</tr>
<tr>
<td>PST 24C</td>
<td>24</td>
<td>260m²</td>
<td>4.140 - 6.025</td>
<td>16.495 - 31.430</td>
</tr>
<tr>
<td>PST 32C</td>
<td>32</td>
<td>350m²</td>
<td>5.690 - 8.300</td>
<td>24.090 - 42.600</td>
</tr>
<tr>
<td>PST 40C</td>
<td>40</td>
<td>420m²</td>
<td>7.100 - 10.150</td>
<td>32.540 - 52.970</td>
</tr>
</tbody>
</table>

The electric consumption corresponds to water temperature between 30ºC to 50ºC. The power generated corresponds to the solar radiation on the panel.

The Solar PST heating system is compatible with underfloor heating, fan coils and low temperature aluminium heaters.

LARGE VOLUMES (SWIMMING POOLS, SPAS…) LINE

Solar PST system
- Thermodynamic block with titanium heat exchanger panel
- 4 to 40 Thermodynamic Solar Panels
- Panel mounting rails
- A thermal inertia storage tank may be installed, depending on project.

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of panels</th>
<th>Titanium heat exchanger</th>
<th>Exterior (Max.)</th>
<th>Roof (Max.)</th>
<th>Electric power (W)</th>
<th>Generated heat power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST 4P</td>
<td>4</td>
<td>1 X 100-40</td>
<td>25 m³</td>
<td>30 m³</td>
<td>960 - 1.800</td>
<td>3.600 - 7.290</td>
</tr>
<tr>
<td>PST 6P</td>
<td>6</td>
<td>2 X 100-40</td>
<td>30 m³</td>
<td>50 m³</td>
<td>1.230 - 2.220</td>
<td>4.900 - 9.680</td>
</tr>
<tr>
<td>PST 8P</td>
<td>8</td>
<td>2 X 100-40</td>
<td>40 m³</td>
<td>65 m³</td>
<td>1.440 - 2.625</td>
<td>5.500 - 11.240</td>
</tr>
<tr>
<td>PST 12P</td>
<td>12</td>
<td>2 X 100-70</td>
<td>60 m³</td>
<td>100 m³</td>
<td>2.010 - 3.120</td>
<td>9.215 - 16.580</td>
</tr>
<tr>
<td>PST 16P</td>
<td>16</td>
<td>2 X 100-70</td>
<td>80 m³</td>
<td>130 m³</td>
<td>3.210 - 5.156</td>
<td>14.190 - 24.200</td>
</tr>
<tr>
<td>PST 24P</td>
<td>24</td>
<td>2 X 100-104</td>
<td>100 m³</td>
<td>160 m³</td>
<td>4.140 - 6.025</td>
<td>16.495 - 31.430</td>
</tr>
<tr>
<td>PST 32P</td>
<td>32</td>
<td>2 X 100-104</td>
<td>140 m³</td>
<td>220 m³</td>
<td>5.690 - 8.300</td>
<td>24.090 - 42.600</td>
</tr>
<tr>
<td>PST 40P</td>
<td>40</td>
<td>2 X 100-104</td>
<td>180 m³</td>
<td>300 m³</td>
<td>7.100 - 10.150</td>
<td>32.540 - 52.970</td>
</tr>
</tbody>
</table>

The electric consumption corresponds to water temperature between 30ºC to 50ºC. The power generated corresponds to the solar radiation on the panel.
The installation of our systems is our best presentation

Our KNOW-HOW and YEARS OF EXPERIENCE has resulted in a large number of highly satisfied clients.

Some reference installations

4-star Meliá Hotel, Spain
SYSTEM: 1 PST 40 SHW
BENEFIT: Sanitary hot water for 100 double rooms.

Industrial plant, France
SYSTEM: 8 PST 32 C
BENEFIT: 2,200 m² heating for industrial building and offices.

Sporting Club Casino, Spain
SYSTEM: 3 PST 40 P, 1 PST 40 SHW, 1 PST 16 SHW, 1 PST 500 SHW
BENEFIT: 10,500 Litres of (changing rooms and restaurant), 600 m² and 100 m³ for indoor swimming pools and 100 m³ for the SPA.

Residential Complex Ndovu Resort I, Kenya
SYSTEM: 13 PST 500 SHW, 11 PST 8 SHW
BENEFIT: 17,500 Litres of sanitary hot water for bungalows, restaurant and laundry.
Student Residence, Kalamata University, Greece

**SYSTEM:** 2 PST 12 SHW y 1 PST 40 SHW  
**BENEFIT:** 12,000 L sanitary hot water (rooms and kitchen).

Public Nursery School, France

**SYSTEM:** 1 PST 24C  
**BENEFIT:** Heating for 8 classrooms.

Fire station, Ireland

**SYSTEM:** 1 PST4 DWH  
**BENEFIT:** 1,000 L hot water for showers.

Cancer Disease Hospital, Spain

**SYSTEM:** 1 PST 8 SHW  
**BENEFIT:** 2,000 L sanitary hot water.

School with student residence, Spain

**SYSTEM:** 1PST40 SHW y 2PST40 P  
**BENEFIT:** 4,500 L/d. for dormitories 600 m³ swimming pool and 2,000 L/d. showers.

Leading international fast-food restaurant chain (80 restaurants with Solar PST). Building of Children’s Foundation-SPAIN

**SYSTEM:** 1 PST 16 SHW, 1 PST40 C, 1 PST 24 C  
**BENEFIT:** Sanitary hot water hot water for 60 children and 780m² for heating.
**Turn-key service**

To be able to respond quickly and efficiently with the highest standard of quality and service, Solar PST relies on a professional technical team with expertise in the water heating sector that will design your project to suit your needs, and will deliver a feasible and cost effective solution.

**TECHNICAL ASSISTANCE WITH TAILOR-MADE ADVICE**

You will be accompanied throughout your project by the Solar PST team and will always receive the best solutions to achieve your goals, according to the features of the location.

**FEASIBILITY STUDY**

- Project design based on the features of your installation and your needs for hot water for one or various uses; e.g. (SHW-heating and swimming pool heating). This phase includes the study of your requirements, and depending on the case, site visits by a Solar PST professional.

- Delivery of a feasibility and energy efficiency study of the Solar PST system compared with the existing energy source system and/or another energy source. Elements as important as reducing CO₂ emissions, payback time, financial feasibility and project budget are included in the study.
The proposal takes into account: the type of system that needs to be installed, the ideal placement of the panels based on the restrictions of the location, the technical modalities of the installation and works execution (duration of the installation, start-up, etc.)

**FOLLOW-UP OF THE WORKS AND START-UP**

- The optimal functioning of the Solar PST installations and the **total satisfaction** of our clients is a priority. Solar PST offers advice in each case, and in this way provides an added value to the project.
- Solar PST provides, among other additional services, its team of technicians for the partial or total execution of the installation and start-up.

**AFTER SALES SERVICE**

- Solar PST recommends an annual check-up of its large volumes systems in order to ensure their **optimum functioning and achieve their maximum performance**. Therefore, either directly or through certified technicians, you can receive professional attention by contacting Solar PST.
The Solar PST commitment

Solar PST has been developed in Galicia, Spain, since 2005, within the renewable energies sector and is a pioneer in the development and installation of Thermo-dynamic Solar Panels for heating sanitary hot water, central heating or swimming pool water.

Solar energy is the most abundant, cleanest and free type of energy that is steadily leading us away from depending on fossil fuels and towards environmental care. Our commitment with the environment and clear focus on guiding consumers towards energy saving are the main reasons for our business venture.

Our technological development provides an added value to the world of renewable energies by maximising the quality of our services. In this way, since the year 2007, Solar PST has positioned itself successfully within the EU market and also has expanded to other countries such as Chile, Argentina, Morocco, New Zealand, etc.

Today we are present in over 20 countries through a network of commercial alliances with distributors and sales agents that offer the excellence of a unique, feasible and environmentally friendly technology.

We are convinced that renewable energies are the way to go and our energy solutions form part of our commitment to the environment.