ECOTOP
DOMESTIC HOT WATER

LATEST GENERATION OF SOLAR TECHNOLOGY.
WORKS WITH SUN, WIND, RAIN OR EVEN AT NIGHT.

ENERGY EFFICIENCY CLASS
A+

PORTUGUESE MANUFACTURING
SINCE 1981

ENERGIE. PT
EFFICIENCY & QUALITY
IN DOMESTIC HOT WATER PRODUCTION

MAXIMUM RETURN ON INVESTMENT

SAVING 85%

• Stainless steel cylinder
• Minimum occupied space at home
• High level of efficiency and ecology
• Quiet operation
• Time scheduling with chrono function
• Easy installation
• Smart photovoltaic function
• Anti-legionella function
• Controller with software in 6 languages
• Optional coil
• HP Keymark Certification

TEDYNOAMIC SOLAR PANEL TECHNOLOGY

• Anodized aluminium, with waterproof and flexible paint
• Easy to transport and install, only 8 kg and 2x0.8 m
• No glass, rubber or fragile materials
• No overheating and freezing problems
• It can be installed on the roof, wall, garden, etc.
• Panel efficiency does not decrease with age or dirt
• No need for cleaning and humidity resistance
• Estimated lifespan of 25 years
• Passed the corrosion test in a salt fog test equivalent to 20 years
• Solar Keymark Certification

24 HOURS A DAY / 7 DAYS A WEEK / 365 DAYS A YEAR
SOLAR PERFORMANCE

Tested and certified according to the most rigorous European standards it has achieved an extraordinary coefficient of performance of 3.8 according to the EN16147. The testing was carried out without solar irradiance, wind or rain. To enhance the real operating performance even more we advise to install the thermodynamic solar pane facing South (North on the southern hemisphere), east or west. Vertically or horizontally on a wall, roof, flat roof but always on a landscape position.

SOLID AND ROBUST

The thermodynamic solar panel is made of anodised aluminium with a special Solokote finishing that ensures it’s robust and long-lasting against corrosion, in particular when exposed to saline and/or aggressive environments. This innovative technical feature allows energy to provide a 10 years warranty against corrosion, ensuring peace of mind to the end user.

SIMPLE AND ERGONOMIC

The high efficiency of the hot water cylinder is achieved by using a high-density polyurethane foam that ensures a low heat loss rate, being able to keep the water heated for several days in a row even if the units is turned off.

SOPHISTICATED

The equipment’s indoor unit has a stainless steel cylinder, as well as an external condenser. High density injected polyurethane insulation with cathodic protection. The thermodynamic block is equipped with a state-of-the-art compressor, with one of the lowest electrical consumptions on the market.
LATEST GENERATION TECHNOLOGY

Make the right choice when choosing the most advanced system.

See warranty conditions.
THERMODYNAMIC SOLAR SYSTEM

WORKING PRINCIPLE

The evaporation of the fluid that runs inside the closed looped circuit happens on the solar panel by capturing the heat from the sun, wind, rain and surrounding air by natural convection. The heated fluid then travels to the compressor, that will compress the fluid increasing its pressure and also its temperature. Then it goes to the heat exchanger where where this heat is transferred to the water. After this, an expansion valve will make the pressure and temperature drop to sub-zero values. The fluid travels up to the thermodynamic solar panel and the cycle repeats again.

EQUIPMENT

- No ducts and no fans
- No energy-consuming defrost cycles
- Super efficient low consumption compressor
- No need to install support equipment

SOLAR PANEL

- Captures heat regardless of weather factors
- Primary circuit does not need to dissipate excess heat on hotter day
- Easy architectural integration, versatile without visual impact

ELECTRONIC CONTROLLER

DOMESTIC HOT WATER PRODUCTION

PHOTOVOLTAIC INTELLIGENT FUNCTION

Take Full advantage of your PV System:
• Sets new standards of smart energy management
• Maximize your PV Solar Panels production and reduce your DHW costs
• Maximize the solar irradiation available by having the thermodynamic solar system working more when there is more sun available
• Get the balance between PV production and consumption with our intelligent controller

With PV Smart Grid Ready, the ENERGIE Solar System absorbs the extra power generated by PV Panels, Wind Energy or Small Hydro storing, what would be lost energy, into the water, enabling you to save even more.

NEW APP NOW AVAILABLE FOR ANDROID

DID YOU KNOW THAT

Any thermodynamic solar system inside has only one mechanical element with electrical consumption. This Element is a super efficient low consumption compressor. Since the capacity to capture heat from the environment is primarily ensured by solar radiation, it is superior to any other equipment intended for the same purpose, the savings are maximum.
System maintenance is practically null and longevity is very high.

Equipment: Thermodynamic Solar Panel

Equipment: Storage Water Heater


Suction Line | Liquid Line

APP DEVELOPED BY ENERGIE

Configure operating modes
Time schedule
Vacation Mode
Consumption history
Temperature control
Anti-legionella cycle

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Equipment: Storage Water Heater


Suction Line | Liquid Line
**TECHNICAL DATA**

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<td>Heat loss (EN12897)</td>
<td>kWh/24h</td>
<td>0.99</td>
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**THERMODYNAMIC SOLAR PANEL**

<table>
<thead>
<tr>
<th>Material</th>
<th>Anodized aluminum solarcoat</th>
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<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>mm</td>
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<tr>
<td>Weight</td>
<td>Kg</td>
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**THERMODYNAMIC BLOCK**

<table>
<thead>
<tr>
<th>Absorbed Power (Avg/Max)</th>
<th>W</th>
<th>350</th>
<th>600</th>
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<td>Thermal Power (Avg/Max)</td>
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<td>1250</td>
<td>2100</td>
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<tr>
<td>Electric Support Power</td>
<td>W</td>
<td>1500</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Fluid / Qt.</td>
<td>g</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Piping Material</td>
<td>Pol.</td>
<td>Copper (DHP ISO1337)</td>
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<tr>
<td>Liquid line</td>
<td>Asp.</td>
<td>1/4”</td>
<td>1/8</td>
</tr>
<tr>
<td>Voltage Supply</td>
<td>V / Hz</td>
<td>220-240 / Single-phase / 50 or 60</td>
<td></td>
</tr>
<tr>
<td>Fuse (General</td>
<td>Resistance)</td>
<td>A</td>
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<td>Operating Temperatures</td>
<td>°C</td>
<td>-5</td>
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**PERFORMANCE**

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<td>Coefficient of performance (COP)</td>
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<td>Energy efficiency class</td>
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<td>+</td>
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<td>Energy efficiency</td>
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<td>155</td>
<td>151</td>
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<td>Annual energy consumption</td>
<td>kWh/year</td>
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<td>1078</td>
<td>1111</td>
<td>664</td>
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<td>Amount of useful water at 40°C</td>
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<td>349</td>
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<td>240</td>
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<tr>
<td>Interior sound level</td>
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**DIMENSIONS (mm)**

<table>
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<th></th>
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<tr>
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<tr>
<td>B</td>
<td>-</td>
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<td>215</td>
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<td>C</td>
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<td>O</td>
<td></td>
<td>20</td>
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</table>

1) The amount of fluid must be verified by the installer. In certain cases, it is necessary to adjust the amount of fluid to guarantee the correct functioning of the system.
2) The 60 Hz frequency is only available upon order.
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