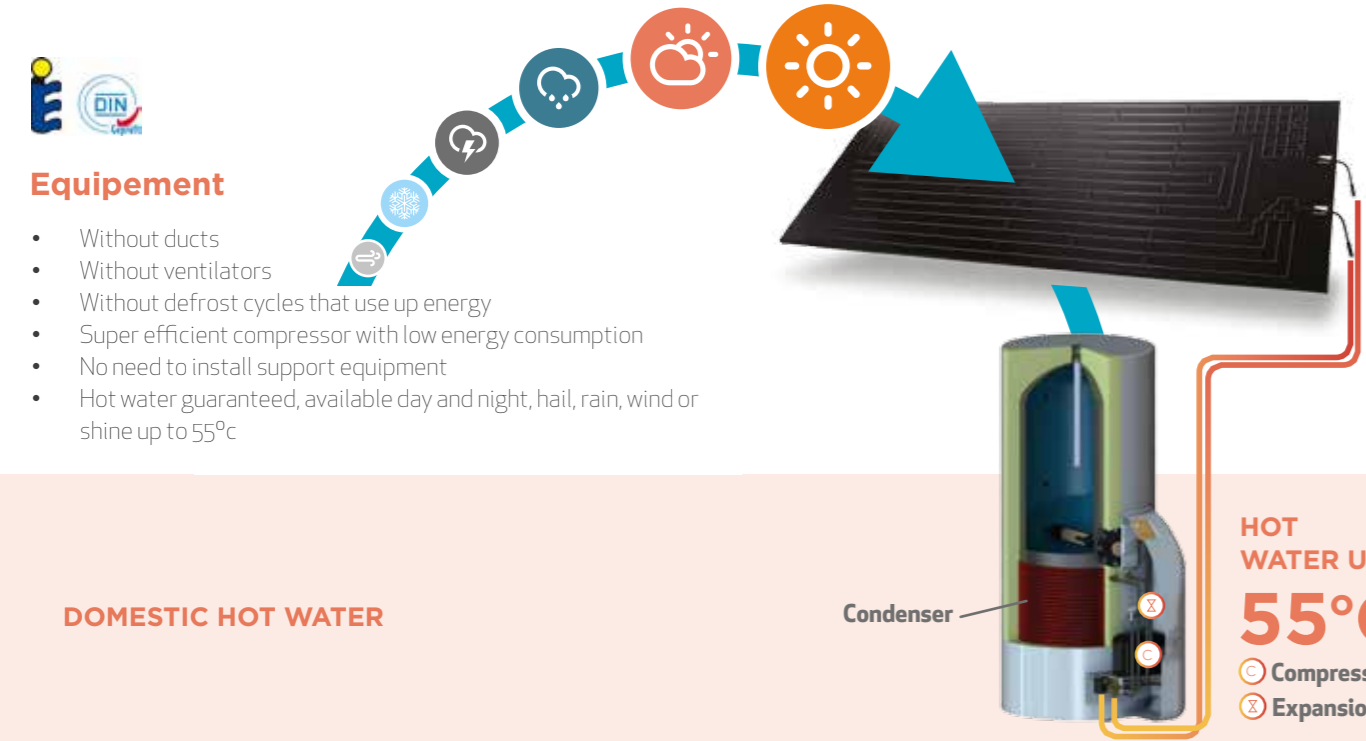
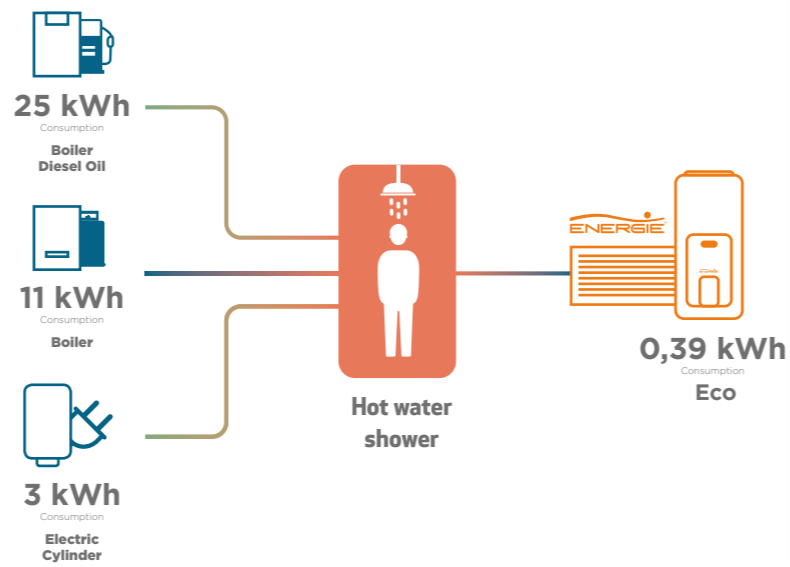


THERMODYNAMIC SOLAR SYSTEM OPERATING PRINCIPLE



Distribution of consumption to different systems



DESIGN, DEVELOPMENT AND EUROPEAN MANUFACTURING



ECO

DOMESTIC HOT WATER

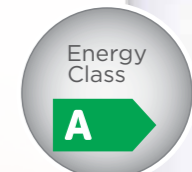
ECONOMY | COMFORT | ECOLOGY

DOMESTIC HOT WATER

DID YOU KNOW?

That all thermodynamic solar systems only have one mechanical element that requires electricity? This element is a low energy consumption compressor and is extremely efficient. As the capacity to capture heat from the environment is primarily ensured through solar radiation, it is superior to other equipment with the same goal offering maximum savings. The maintenance of the system is practically non-existent and it has high longevity.

PROBABLY THE MOST ADVANCED SOLAR WATER HEATER IN THE WORLD



Solar Panel

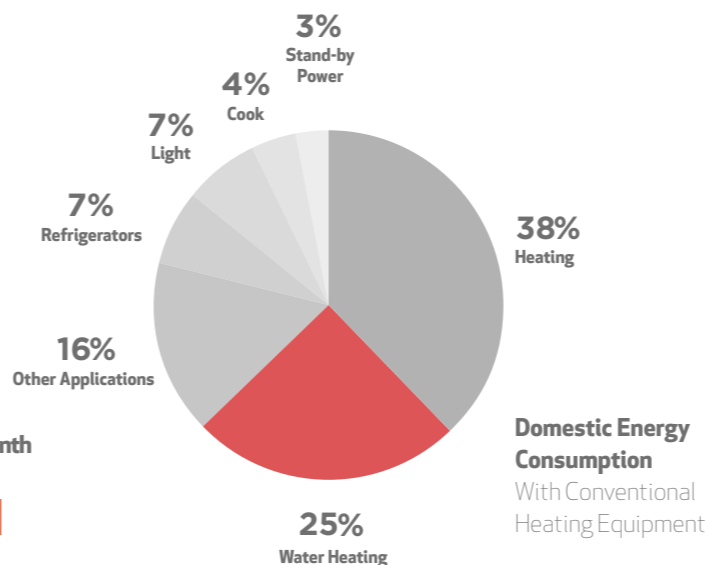
- ANODIZED ALUMINUM, WITH HYDROPHOBIC FLEXIBLE COATING.
- LIGHT WEIGHT - ONLY 8 KILOS, EASY TO TRANSPORT AND INSTALL.
- DIMENSIONS: 2m X 0,8m X 0,02m.
- NO GLASS, RUBBER OR FRAGILE MATERIALS.
- NO RISK OF OVER HEATING.
- NO RISK OF FREEZING.
- HIGH RESISTANCE IN SALINE ENVIRONMENT.
- HIGH RESISTANCE TO HUMIDITY.
- IT CAN BE INSTALLED FROM 10° TO 85° IN A HORIZONTAL POSITION.
- IT CAN BE INSTALLED ON THE ROOF, WALL, IN THE GARDEN, ETC...
- THE PANEL DOES NOT LOSE ITS EFFICIENCY WITH TIME OR WITH DIRT.
- NO NEED TO CLEAN.
- ESTIMATED USEFUL LIFE OF 25 YEARS.



More detailed information on energie.pt

SAVE UP TO **85%**

Taking into account Eco300
7 Hours operation per day
Consumption of 0.39 kW/h
Energy necessary / month: 0.39 kW x 7 h x 30 days = 81.9 kWh / month



Authorized Dealer

Address Zona Industrial de Laúndos, Lote 48
4570-311 Laúndos - Póvoa de Varzim PORTUGAL
GPS Coordinates N 41 27.215' , W 8 43.669'
Telephone + 351 252 600 230

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Project co-financed by:



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New Design

We select the best components and subject our systems to rigorous quality testing to ensure maximum customer satisfaction



100% ENVIRONMENTALLY FRIENDLY

MAXIMUM PRODUCTIVITY WITH SOLAR PERFORMANCE



- HEAT IS CAPTURED IN THE FORM OF SOLAR RADIATION, ENVIRONMENTAL TEMPERATURE, RAIN, WIND AND EVEN SNOW.
- THE HEAT PRODUCED ON COLDER DAYS, EVEN AT NIGHT IS SUFFICIENT TO PRODUCE THE WATER TEMPERATURE DESIRED.
- THE SOLAR PANEL IS LIGHT, DISCREET AND VERSATILE IN TERMS OF WHERE TO PUT IT.
- OUTSIDE CYLINDER CONDENSER (NO CONTACT WITH WATER).
- 3RD GENERATION THERMODYNAMIC SOLAR ENERGY.

- HOT WATER UP TO 55°C AVAILABLE 24h PER DAY.
- LOW MAINTENANCE.
- THE ENERGY CONSUMPTION OF THE EQUIPMENT IS REDUCED DUE TO A SUPER EFFICIENT COMPRESSOR.
- NO DEFROST CYCLE.
- VERSIONS WITH 1 OR 2 THERMODYNAMIC SOLAR PANELS.
- ENAMELLED OR STAINLESS STEEL CYLINDER.
- WITH OR WITHOUT SUPPLEMENTARY COIL.

FAQs

What is the ENERGIE Thermodynamic Solar System?

ENERGIE Thermodynamic Solar Systems use a technology based on the principle of the French physicist Nicolas Carnot, who discovered thermodynamics. Thanks to him, Thermodynamic Solar Panels are capable of capturing the heat from the sun, or even from the rain and wind, 24 hours a day, 365 days a year. One of the innovative aspects is that an ecological fluid at freezing temperatures circulates through the solar panel, allowing a greater uptake of the solar energy and a higher absorption of the environmental energy that is then released to the water through a heat exchanger. Thus, ENERGIE's Thermodynamic Solar Panels surpass the limitations of the traditional solar panels and make possible a more efficient increase of the water temperature.

Can I have hot water in days without sun?

Because the fluid passes inside the panel at very low temperatures, it can receive more solar energy than a normal liquid and even on days without sun or at night. Because of this thermal difference, the solar panel can capture the heat existing in the environment and transmit it to the water. Thus, the system always ensures hot water up to 55°C.

Does the Thermodynamic Solar System require extensive maintenance care?

Maintenance is almost non-existent, you are just advised to check the magnesium anode, a protection element of the tank, once a year.

Does this system have any anti-bacterial device?

Yes it does. According to the standard in force, the equipment for sanitary hot water has a function that allows the tank's temperature to be raised to over 70°C, whose activation is manual with automatic deactivation.

Can the ENERGIE Thermodynamic Solar System be installed in any region?

Yes it can. The ENERGIE Thermodynamic Solar System can be installed anywhere in the country, including in areas where it rains or snows.

Electronic Controller

ECO Operating Mode

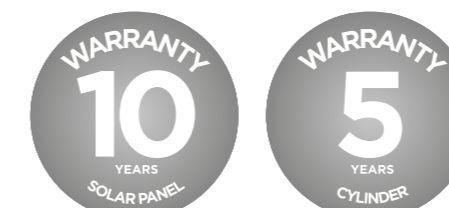
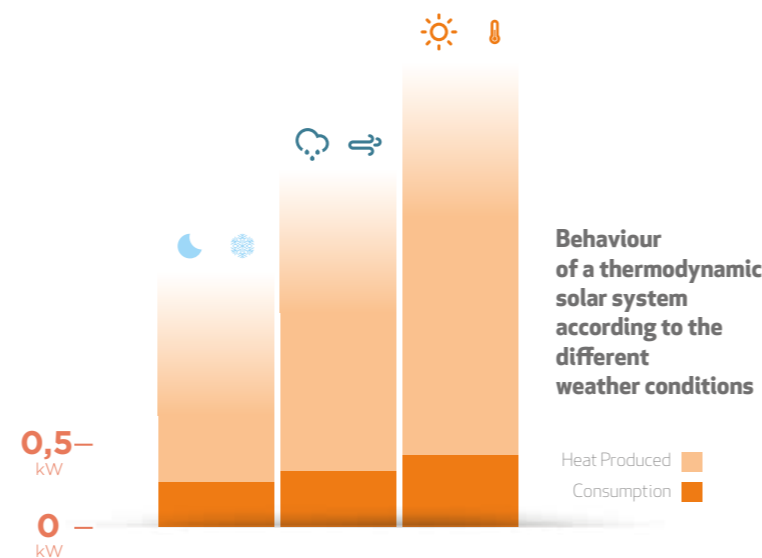
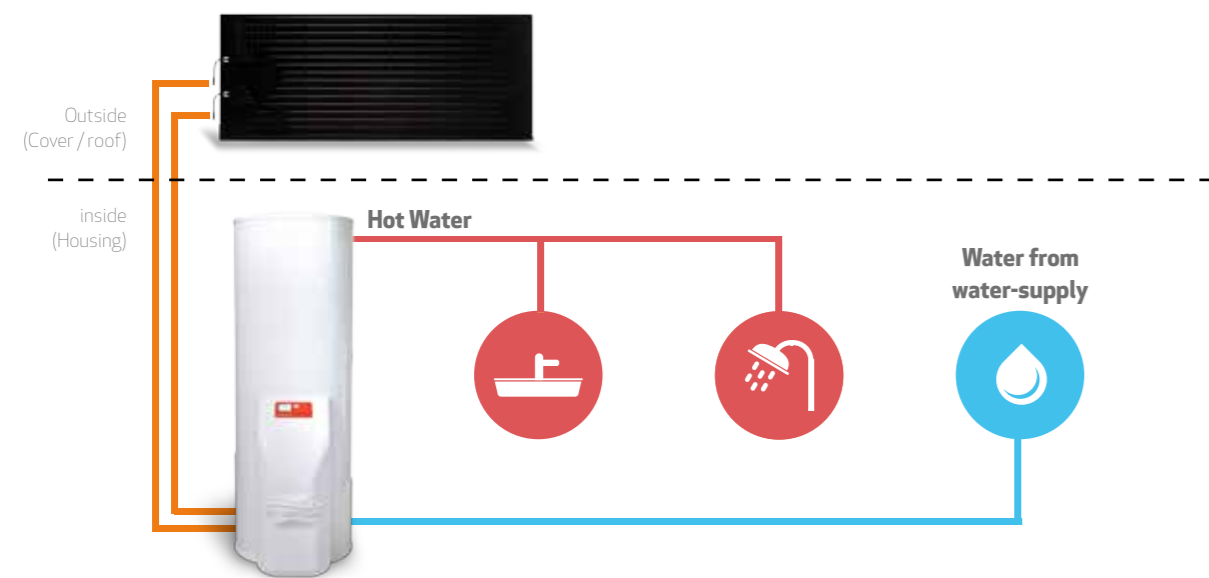
The equipment only works as a Thermodynamic Solar System.

AUTO Operating Mode

The equipment works as a Thermodynamic Solar System and/or electrical support should it be required.

BOOST Operating mode

The equipment works with a Thermodynamic Solar System and electrical support simultaneously.



Check warranty conditions

MAXIMUM EFFICIENCY



APPLIES TO EUROPEAN DIRECTIVE FOR ENERGY RELATED PRODUCTS

PV 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.



- Thermodynamic Solar Panel 1
- DWH Cylinder + Thermodynamic Block 2
- PV Panels 3
- Inverter 4

List of equipment from the range

Model	No. of Panels	Esm Stainless	Thermal Power W(Max)	Power Consumption W(Avg)	Electrical Supply V/Hz	Extra Coil	Liters	No. of People	ErP Class	Tapping Profile
Eco 200esm	1	x	1690/2900	390/550	230/50		200	4	A+	L
Eco 250esm	1	x	1690/2900	390/550	230/50		250	4	A+	XL
Eco 300esm	1	x	1690/2900	390/550	230/50		300	5	A+	XXL
Eco 250i	1	x	1690/2900	390/550	230/50		250	4	A+	XL
Eco 300i	1	x	1690/2900	390/550	230/50		300	5	A+	XXL
Eco 250ix	1	x	1690/2900	390/550	230/50		250	4	A+	XL
Eco 300ix	1	x	1690/2900	390/550	230/50		300	5	A+	XXL
Eco 300esms	2	x	2800/4550	595/890	230/50		300	6	A+	XXL
Eco 250is	2	x	2800/4550	595/890	230/50		250	5	A+	XL
Eco 300is	2	x	2800/4550	595/890	230/50		300	6	A+	XXL
Eco 500is	2	x	2800/4550	595/890	230/50		455	9	A+	XXL
Eco 250isx	2	x	2800/4550	595/890	230/50		250	5	A+	XL
Eco 300isx	2	x	2800/4550	595/890	230/50		300	6	A+	XXL
Eco 500isx	2	x	2800/4550	595/890	230/50		455	9	A+	XXL

esm (Enamelled) | i (Stainless Steel) | s (2 Solar Panels) | x (Supplementary Coil)

