



ECOTOP DOMESTIC HOT WATER



EFFICIENCY & QUALITY

IN DOMESTIC HOT WATER PRODUCTION



- 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

THERMODYNAMIC 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





SOLAR PERFORMANCE

Tested and certified according to the most rigorous European standards it has achived 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 instal the thermodynamic solar pane facing South (North on the southern hemisphere), east or west. Vertically or horizontally on a wall, roof, flat roofbut 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 energie 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.



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 it's 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.





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- •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













EMPERATU

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



Configure operating modes



Consumption history



Time schedule



Temperature control



Vacation Mode



Anti-legionella cycle

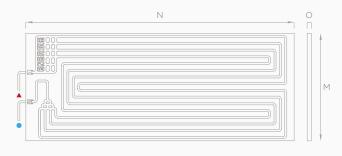


DID YOU KNOW THAT

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



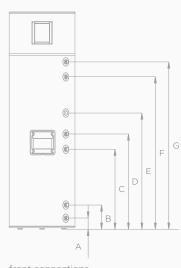
▲ Suction Line • Liquid Line

H. Hot water | PT. PT Valve | R. Recirculation | C. Cold Water | Mg. Magnesium anode | Sc. Solar Coil

Equipment: Storage Water Heater



rear connections 300 i / 300 ix



front connections 2001 / 2001X /2501 /250 IX

TECHNICAL DATA			200i	250i	300i	200ix	250ix	300ix
Net weight		Kg	58	65	71	61	68	74
Volume		L	200	250	300	195	245	295
Water heater		-			Stainless	Steel		
Cathodic protection		-		Mg Anode (1"1/4)				
Hydraulic connections	Water - inlet and outlet		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	PT Valve	Pol.	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Recirculation		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Coil - entrance and exit		-	-	-	1"	1"	1"
Insulation		-		High density polyurethane 50mm				
Maximum pressure		bar	7	7	7	7	7	7
Maximum temperature		°C	80	80	80	80	80	80
Heat loss (EN12897)		kWh/24h	0.99	1.01	1.17	0.99	1.01	1.17

-	Anodized aluminum solarcoat
mm	2000 x 800 x 20
Kg	8
W	350 600
W	1250 2100
W	1500
-/g	R134a / 1100
-	Copper (DHP ISO1337)
Pol.	1/4" 3/8"
V / Hz	220-240 / Single-phase / 50 or 60 ²
А	10 10
	mm Kg W W -/g - Pol. V / Hz

PERFORMANCE ³		200i	250i	300i	200ix	250ix	300ix
Load profile	-	L	XL	XL	L	XL	XL
Coefficient of performance (COP)	-	3,6	3,8	3,7	3,6	3,8	3,7
Energy efficiency class	-	A++	A+	A+	A++	A+	A+
Energy efficiency	-	154	155	151	154	155	151
Annual energy consumption	KWh/year	664	1078	1111	664	1078	1111
Amount of useful water at 40°C	L	247	349	389	240	342	382
Set point	°C	53	53	53	53	53	53
Interior sound level	dB	47	47	47	47	47	47

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.

3 According to EN16147, Delegated Regulation (EU) Nº812/2013 and Delegated Regulation (EU) Nº814/2013.

DIMENSIONS (mm)	200i	250i	300i	200ix	250ix	300ix			
А	99	99	107	99	131	107			
В	-	-	-	215	231	236			
С	-	-	-	706	435	636			
D	820	840	787	820	690	787			
E	940	1025	1096	940	840	1096			
F	1044	1343	1187	1044	1205	1187			
G	1180	1475	1330	1180	1325	1330			
Н	580	580	650	580	580	650			
	1615	1915	1775	1615	1915	1775			
М		800							
N		2000							
0		20							

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