

 **MEGASUN**<sup>®</sup>  
No. 1 UNDER THE SUN



AUTHORISED DISTRIBUTOR

**POWERGAS**  
Oilfield Equipments LLC



Made in GREECE



[projects@powergasglobal.com](mailto:projects@powergasglobal.com)  
[www.powergasglobal.com](http://www.powergasglobal.com)

Abu Dhabi  
Tel. : +971 2 632 2480  
Fax : +971 2 632 2490

Sharjah                      Dubai  
Tel. : +971 6 523 3034  
Fax : +971 6 523 3035



The standing out feature of the thermosyphon solar water heater MEGASUN is the internal protection of the water tank with a double glass enameling process heated at 860°C.

The MEGASUN boiler have a long life, even in climatic conditions humid or saline. The solar collector composed of one single absorber sheet with high selective titanium blue treatment welded with ultrasonic onto copper tubes. The mode of the continuous welding assures not only the high performances of the collector but also an optimal endurance in time.

The double insulation in combination with the special tempered glass and the high selective in titanium blue absorber treatment allow the collector to collect the direct and indirect sunrays, assuring its high efficiency even in days with reduced sunshine. The excellent exterior design of the solar water heater MEGASUN with the well-designed support base, permit an easy installation on every type of roof matching ideally with every architectural construction.



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## 13 ARGUMENTS OF TECHNOLOGICAL SUPERIORITY

### 1. GUARANTEED ENDURANCE NEXT TO THE SEA

Most solar water heaters are manufactured with black or painted sheet metal, materials that corrode and have a short life span, especially in areas close to the sea. The MEGASUN storage tank has an exterior polygonal casing made from anodized aluminium, which is extremely durable to ultraviolet rays, in humid climates, and in coastal areas.

### 2. THE MEGASUN DOES NOT FREEZE

The advanced design of the sealed jacket around the storage tank in the closed system of the MEGASUN solar water heater guarantees the operation of the system in freezing conditions, and also secures the collectors against corrosion and from interior clogging.

### 3. MEGASUN SECURES MORE HOT WATER IN THE WINTER

The strong polyurethane insulation 50-60mm thickness and high density (40 Kg/ m<sup>3</sup>) guarantees the consumer more hot water for use even when the temperature outside is 30°C.

### 4. DOUBLE LIFE SPAN

Metallic storage tank 2,5mm thick made according to DIN 4800. That means the tank is twice as resistant compared to most ordinary solar water heater.

### 5. GUARANTEED ENDURANCE OF STORAGE TANK FROM HARD WATER

Automatic sand blasting process of 6phase for the interior cleaning of the tank. Interior protection of the water tank with double "direct" glass enameling baked at 860°C. The tank has a long life span, even in waters with high salinity content. Tank is also equipped with a magnesium rod for additional protection.

### 6. HOT WATER IN COMBINATION WITH THE CENTRAL HEATING SYSTEM

The MEGASUN boiler equipped with an electric resistance with thermostat which can be activated during cloudy days when there is no sufficient sunshine. The electrical resistance can be fitted with a tube exchanger (upon request) which can be connected to the central heating system achieving even more energy saving.

### 7. THE MEGASUN SOLAR COLLECTOR HAVE TRIPLE DURABILITY

Most solar collectors due to flaws in their design do not have air holes and moisture is accumulated in the interior of the collector due to

difference in temperatures especially in wet climates, resulting to the corrosion of the absorber. The MEGASUN collector has airholes which allow the collector to breath and the special built-in profile of collector is designed in such a way so as to keep the airholes completely water tight protecting them from raining water.

### 8. THE MEGASUN REACTS BETTER

The collector MEGASUN is composed of one single absorber sheet with high selective titanium blue treatment. The absorber is welded with ultrasonics continuous welding seam onto copper tubes. With this unique method the heat transfer is achieved completely resulting to the MEGASUN collector to be most efficient.

### 9. THE MEGASUN SOLAR COLLECTOR UTILIZES THE DIRECT & INDIRECT SUN RAYS

The high selective titanium surface of the solar in combination with the Solar Tempered Glass with its specialized crystals, minimize the reflection of the direct sun rays and make the MEGASUN collector a high output collector.

### 10. STEADY PERFORMANCE WITHOUT HEAT LOSSES

The double insulation, at the back side and lateral secure the high performance and minimize the heat losses.

### 11. SECURITY AND RELIABILITY The MEGASUN

solar collector has a solar TEMPERED GLASS, to withstand hail and prevent any accidents.

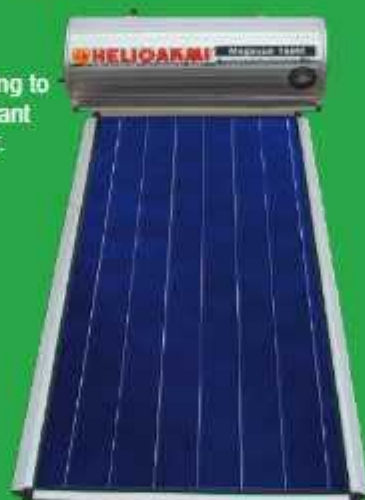
### 12. SUPERB DESIGN AND EASY INSTALLATION

The excellent outer design of the unit along with the well-designed support base, allow for the easy and adjustable installation of the unit on top of tiled or any other type of roofs. Moreover, the side covering of the collector protect the connection pipe from the ultraviolet rays and offer at the same time a

nice aesthetic look that could be incorporated in every architectural building design.

### 4. HIGH QUALITY STANDARDS

The MEGASUN solar water heater is manufactured under the strictest international standard specifications and its production is inspected at each production stage. All units have a special identification quality and inspection badge proving they have been inspected to ensure the highest quality.



## EXTERNAL DIMENSIONS ALL MODELS

MEGASUN MODEL	STORAGE TANK SPECIFICATION			COLLECTOR SPECIFICATION		
	Tank Dimensions (mm)	Cylinder pressure test		Collector Dimensions (mm)	Number of Collectors	Surface m <sup>2</sup>
120	500x1000	10	BAR	1546x1015x90	1	1.57
160M	500x1250	10	BAR	1546x1015x90	1	1.57
160	500x1250	10	BAR	1546x1015x90	1	1.57
200M	570x1250	10	BAR	1546x1015x90	1	1.57
200	570x1250	10	BAR	2050x1010x90	1	2.10
300M	570x1870	10	BAR	1546x1015x90	2	2x 1.57
300	570x1870	10	BAR	2050x1010x90	2	2x 2.10
350	570x2000	10	BAR	2050x1275x90	2	2x 2.10

# INTERNATIONAL CERTIFICATIONS



Australian Standard



Instituto Nacional De Técnica Aeroespacial



Solar Keymark

SPF/ ITR

Solarenergie Prüf und Forschungsstelle Rapperswil Switzerland



ISO 14001:2004



HELIOAKMI SA, HEADQUARTERS: Nea Zoi 19300 ASPROPYRGOS, ATTICA – GREECE

Tel : +30 210 55 95 624 – 55 95 625 – 55 95 626 Fax : +30 210 55 95 723,

web : [www.helioakmi.com](http://www.helioakmi.com), e-mail: [megasun@helioakmi.com](mailto:megasun@helioakmi.com)

NOTE: The manufacturer reserves the right to change and/or modify the specifications of the products and their accessories without prior notice.

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