

**SOLAR WATER HEATER**

 **MEGASUN**

**Low in height, high in performance  
and highly aesthetic**



Greek product

**1<sup>st</sup> National  
Award  
Business  
Excellence**

**MINISTRY OF DEVELOPMENT  
GENERAL SECRETARIAT FOR INDUSTRY**

**HELIOAKMI S.A. Group Of Companies**



# 13 points 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's outside casing is made from Anodized Aluminum, 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 guarantees the operation of the system in freezing conditions.

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

The high density polyurethane insulation with 50mm thickness guarantees the consumer more hot water for use even when the temperature outside is  $-30^{\circ}\text{C}$ .

## 4. DOUBLE LIFE SPAN

The metallic storage tank is made according to DIN 4800-5. That means the tank is twice as resistant to high pressure water supply networks than most ordinary solar water heaters.

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

The inside of the storage tank is protected against corrosion with double enameling, heated at  $850^{\circ}\text{C}$ . This innovative method of enameling offers durability and resistance to the hardest water ensuring a long life span.

## 6. HOT WATER EVEN CLOUDS

The solar water heater is equipped with an electrical resistance with a thermostat which can be activated when there is no sunshine or during days with a prolonged cloudy weather and there is a need for additional hot water. Furthermore, it is also possible, upon request, to add on the electric resistance an auxiliary heating element (a tube heat exchanger coil) so that to connect it to the central heating boiler for greater energy saving.

## 7. THE SOLAR COLLECTORS HAVE TRIPLE DURABILITY

Most of solar collectors due to flaws in their design do not have «air holes», allowing in moisture to accumulate inside the collector due to the difference in temperature, especially in wet climates. This results in the corrosion of the absorber. The profile of the collector is designed in such a way so as to keep

the 4 air holes completely water tight and at the same time do not allow the entrance of rain water.



## 8. THE MEGASUN REACTS BETTER

Flat plate solar collector with anodized aluminium profile, copper tubes and a unique sheet of absorber with a selective titanium treatment.

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

The one unique sheet of absorber with the selective in titanium treatment, in combination with the solar tempered glass with its specialized crystals, minimize the reflection of the direct sunrays and make the 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 from the collector.

## 11. SECURITY AND REALIBILITY

The MEGASUN collector has a special tempered glass 4mm thick so that it can not easily break and to be protected from possible accidents.

## 12. SUPER 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 any type of roof. 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.

## 13. INNOVATION IN MAINTENANCE

The large cleaning flange  $\varnothing 120$  facilitate the replacement of magnesium rod and the cleaning of the tank from the salts. The solar water heater MEGASUN is made under the strictest international standards and its manufacture is inspected at each production stage.

All devices feature a SPECIAL MARK OF QUALITY AND CONTROL which proves that they have been tested at all stages of production.

**1<sup>st</sup> National Award Business Excellence**

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## SPECIFICATIONS AND DIMENSIONS OF THE SYSTEM

MEGASUN MODEL	COLLECTOR		
	Dimensions (mm)	Number of collectors	Surface (m <sup>2</sup> )
160-HOR	2050x1275X90	1	2,62
200-HOR	2050x1275X90	1	2,62
300E-HOR	2050x1275X90	2	2,62x2

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## INTERNATIONAL RECOGNITION RECEIVED BY HELIOAKMI INTERNATIONALSA



QUALITY ASSURANCE SYSTEM ISO 9001