Solar Water Heaters ...for life

ASSOS BOILERS
HELIOAKMI S.A. Group of companies



Made in GREECE

The strong point of the thermosyphon solar water heater ASSOS BOILERS is the internal protection of the water tank with a double glass enameling process heated at 850 °C. The ASSOS BOILERS tanks have a long life , even in climatic conditions humid or saline. The solar collectors composed of one single absorber sheet with high selective titanium blue treatment welded with ulstrasonic 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.



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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 ASSOS BOILERS with the well designed support base, permit un easy installation on every type of roof matching ideally with every architectural construction.

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 ASSOS BOILERS 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 ASSOS BOILERS DOES NOT FREEZE

The advanced design of the sealed jacket around the storage tank in the closed system of the ASSOS BOILERS Solar Water Heater guarantees the operation of the system in freezing conditions, and also secures the collectors against corrosion and from interior clogging.

3. ASSOS BOILERS SECURES MORE HOT WATER IN THE WINTER

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

4. DOUBLE LIFE SPAN

The metallic storage tank of ASSOS BOILERS is 2,5mm thick and is made according to DIN 4800-5. That means the tank is twice as resistant to high-pressure water supply networks as most ordinary solar water heaters.

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 enamelling baked at 850˚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 ASSOS BOILERS tank is equipped with an electric resistance with thermostat which can be activated during cloudy days when there is no sufficient sunshine. The electrical resistance of the ASSOS BOILERS units 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 ASSOS BOILERS SOLAR COLLECTORS 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 ASSOS BOILER collector has air holes which allow the collector to breath and the profile of the ASSOS BOILER collector is designed in such a way so as to keep the air holes completely water tight protecting them from raining water.

8. THE ASSOS BOILERS REACTS BETTER

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

9. THE ASSOS BOILERS COLLECTOR UTILIZES THE DIRECT & INDIRECT SUN RAYS

The copper titanium surface of the solar panel in combination with the Solar Tempered Glass with its specialized crystals, minimize the reflection of the direct sun rays and make the ASSOS BOILERS collector the only collector with such a high output.

10. STEADY PERFORMANCE WITHOUT HEAT LOSSES

The double insulation made from 40mm thick rock wool placed on the back side and 20mm thick fibreglass insulation that is placed on the sides, secure the high performance and minimize the heat losses from the ASSOS BOILERS collector.

11. SECURITY AND RELIABILITY

The ASSOS BOILERS collector has a special TEMPERED GLASS (4mm thick), to withstand hale 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 coverings of the collector protect the connection pipes from the ultraviolet rays and offer at the same time a nice aesthetic look that could be incorporated in every architectural building design.

13. HIGH QUALITY STANDARDS

ASSOS BOILERS 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.

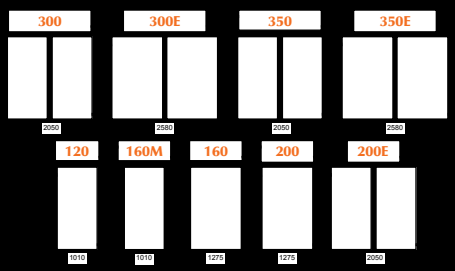
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QUALITY ASSURANCE SYSTEM ISO 9001



EXTERNAL DIMENSIONS - ALL MODELS

MODEL ASSOS BOILERS	STORAGE TANK			COLLECTOR					SUPPORT BASE	TOTAL WEIGHT
	Dimensions mm	Weight kg	Cylinder pressure test	Dimensions mm	Collectors	Surface	Weight kg (per collector)	Pressure test	Weight kg	EMPTY kg
120	500x1100	48	10 BAR	2050x1010x90	1	2,10	36	10 BAR	24	108
160M	500x1320	59	10 BAR	2050x1010x90	1	2,10	36	10 BAR	24	119
160	500x1320	59	10 BAR	2050x1275x90	1	2,62	45	10 BAR	24	128
200	570x1320	65	10 BAR	2050x1275x90	1	2,62	45	10 BAR	24	134
200E	570x1320	65	10 BAR	2050x1010x90	2	2 x 2,10	36	10 BAR	26	163
300	570x2050	110	10 BAR	2050x1010x90	2	2 x 2,10	36	10 BAR	32	214
300E	570x2050	110	10 BAR	2050x1275x90	2	2 x 2,62	45	10 BAR	32	232
350	570x2050	117	10 BAR	2050x1010x90	2	2 x 2,10	36	10 BAR	32	221
350E	570x2050	117	10 BAR	2050x1275x90	2	2 x 2,62	45	10 BAR	32	239

Tollerance +/-10%

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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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