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THERMOSIPHON CLASSIC

GREENoneTEC 1
SOLAR COLLECTORS

THERE CAN ONLY BE 1

HOT WATER SUPPLY SAFE & RELIABLE

THERMOSIPHON SYSTEM CLASSIC FROM GREENoneTEC

The high-performance but attractively priced "Slimline" quality collector is the starting point for the thermosiphon system from GREENoneTEC. The connection lines from the solar collector to the storage tank are well protected and therefore the energy losses are eliminated and the full power of the sun is used for heating water. This clever solution ensures quick and easy installation and meets even the most demanding aesthetic requirements. The generated heat can be stored over a longer period thanks to a special tank insulation.

All thermosiphon systems (160, 200, 300 litres) are designed as "high pressure" dual-circuit systems and thereby guarantee maximum solar yields. This makes a substantial contribution towards cutting costs and saves you money according to the maxim:

"We don't get a bill from the sun"

THERMOSIPHON SYSTEM CLASSIC WITH QUALITY FROM GREENoneTEC

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CLASSIC 160 | 200 | 300

COMPACT HOT WATER SYSTEM

WITH ENAMELLED DOUBLE-JACKET STORAGE TANK

PRODUCT ADVANTAGES of Thermosiphon CLASSIC from GREENoneTEC

- High efficient TS system with natural circulation (no electricity required)
- Best system performance, Solar Keymark tested
- High-performance collector – One collector for all system sizes
- With enamelled double jacket storage tank
- High efficient heat transfer at the absorber using state of the art
- Tempered solar safety glass
- Easy transport and straight forward installation thanks to the modular system design
- Mounting sets available flat roof installation as well as for parallel installations on pitched roofs
- Production with state-of-the-art robotic production technology
- All components and spare parts from a single source
- Installation system for wind loads up to 210 km/h (tested acc. to EN 1991)
- Low investment costs
- Long service life & minimum maintenance requirements
- 5-year system warranty

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CLASSIC SOLUTION

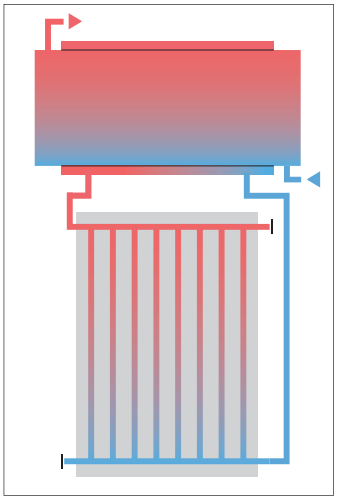
As a dual-circuit system, the GREENoneTEC thermosiphon CLASSIC **with a enamelled double jacket storage tank** is available in three sizes. The storage tank is provided with two exchangeable magnesium anodes for maximum corrosion protection as standard. As an option, the storage tank can also be equipped with a heating rod for rapid water heating.

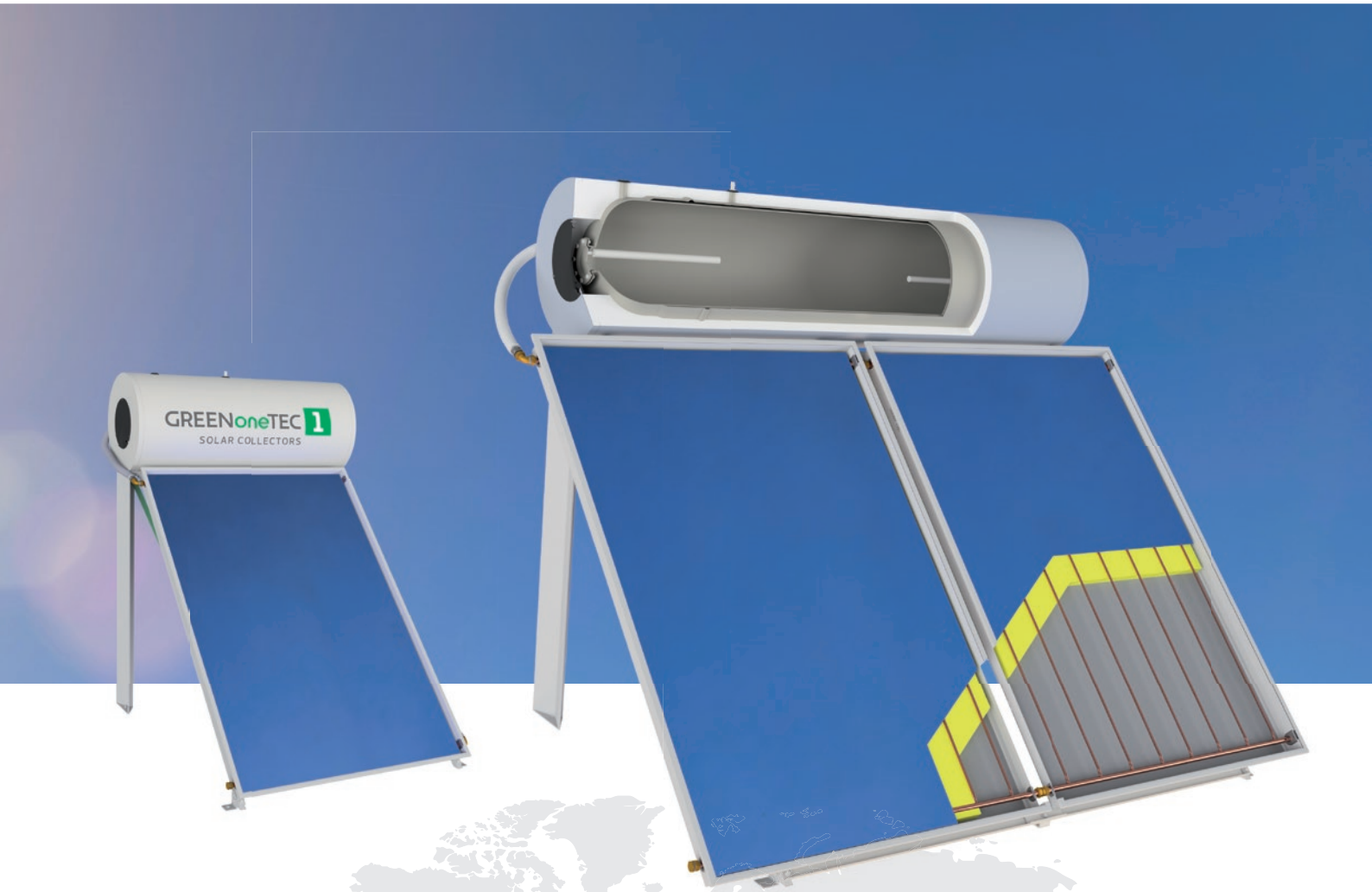
TECHNICAL DATA

Collector	**160**	**200**	**300**
Overall area [m²]	2.03	2.03	2.03
L x W x H [mm]	1.733 x 1.173 x 73	1.733 x 1.173 x 73	1.733 x 1.173 x 73
Weight of collector, empty [kg]	28	28	28
Number of collectors	1	1	2
Housing	Al-frame		
Absorber sheet	Al, highly selective vacuum coating		
Tank	**160**	**200**	**300**
Weight of tank [kg]	60	80	100
Tank capacity [l]	145	177	266
Tank insulation	PU foam 50 mm		
Compressive strength - primary	max. 3 bar		
Compressive strength - secondary	max. 10 bar		
Tank connections	½'' female thread - primary circuit		
Heat transfer medium	Glycol / water mixture		
Tank material	steel, powder-coated		
Corrosion protection	magnesium anode		
System	**160**	**200**	**300**
Weight of overall system (empty) [kg]	100	120	173
Weight of overall system (filled) [kg]	253	308	455
Capacity of solar circuit [l]	8.2	10.9	16.2
Heating rod (optional)	1.5kW/220V & 3.5kW/220V *		
Mounting material	aluminium / steel galvanized		

* on request 110 V

Operating principle

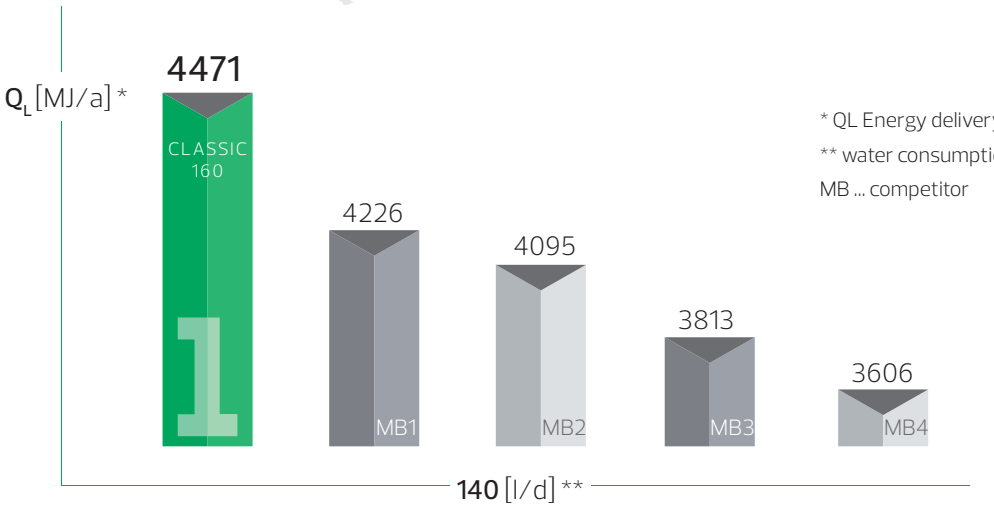




BEST SYSTEM PERFORMANCE

According to Solar Keymark system test
Location: Athens / daily draw-off 140l

Solar Keymark certified



* QL Energy delivery by the system
** water consumption/day [38°C]
MB ... competitor

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BEST CUSTOMISED SOLUTION

THE UNIQUE QUALITY OF OUR HIGH-PERFORMANCE ABSORBERS

The GREENoneTEC manufacturing technology for full-surface high-performance absorbers is unique in the market and therefore provides the basis for the decisive advantage of our collectors.

The harp register used in the thermosiphon collector is manufactured on a fully automated soldering machine.

Laser welding technology

Based on multi-stage quality assurance procedures, our production has been designed for industrial mass production and relies on optimised laser welding technology and a highly automated copper and aluminium semi-finished products manufacture.

- Highly selective absorber coating
- Laser-welded absorbers in aluminium/copper with excellent strength and durability values of the weld seams
- Automated quality assurance concept with 100% pressure test to 15 bar on all absorbers

FASTENING SYSTEMS FOR EASY AND SAFE INSTALLATION

The all-in-one solution

High quality Thermosiphon systems also need an optimal fastening concept. GREENone-TEC supplies optimised fastening systems and accessories for flat roofs 30°, 45° and roof-mounted installation in parallel for all Thermosiphon systems.

Simple, universal and safe

The focus is on short installation times and maximum safety in accordance with EN 1991 for the technical design and material selection.

Installation manuals

Installation manuals with clearly arranged illustrations, text passages, maintenance and service hints are enclosed with all fastening systems as standard.

ADDED VALUE FOR OUR CUSTOMERS:

- All-year-round delivery performance > 99% even in the seasonal peak months
- Optimum utilisation of production capacity
- Transport and cost-optimised packaging solutions
- All types of shipping possible (truck, air and sea)

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PERFECT LOGISTICS SERVICE

TOP LOGISTICS PERFORMANCE IN PACKAGING AND DELIVERY

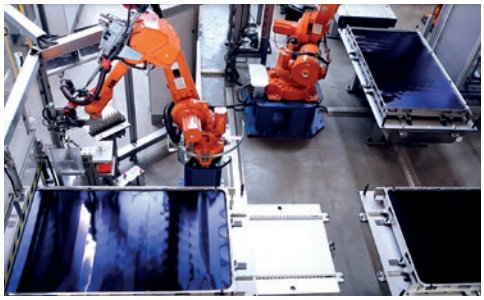
The GREENoneTEC supply chain

A decisive competitive advantage for us and for our customers is our ability to generate a seamless supply chain and hence the associated extremely reliable delivery performance. Our modern high bay warehouse allows us to provide cost-optimised production even during the winter months and to guarantee a constant supply capacity at peak times.

Customised packaging solutions

All GREENoneTEC products can be packed in our in-house packaging centre for all types of shipping (truck, air and sea).

TOP BRAND IN SOLAR INDUSTRY



CERTIFIED MANAGEMENT SYSTEMS:

- Quality management according to ISO 9001
- Environmental management system according to ISO 14001
- Occupational Health and Safety Management System BS OHSAS 18001

PRODUCT CERTIFICATES:

- Solar Keymark
- Austria Solar Seal of Quality (AT)
- Austrian Ecolabel (AT)
- CSTBat (FR)
- MCS (UK)
- SRCC (USA)
- ICC–International Code Council (USA)
- DCL – Dubai

A MARK OF QUALITY AND INNOVATION

The best products – Made in Austria

GREENoneTEC develops and produces the best solar thermal collectors and fixing systems in customized OEM versions. We supply our high performance large-area collectors to solar thermal power plants and, on the global market for thermosiphon systems as well, our customers trust our innovative system applications.

Trademark for best quality

GREENoneTEC has developed into a brand which stands for the highest production quality and innovation in the solar market. Praise that brings a lot of responsibility with it. As the driving force in the market, we accept this challenge every day to provide sustainable success for our customers.

Quality control

The quality assurance of our products begins in the development phase and ends with the delivery of the products. We test our products according to defined quality and performance criteria. Collectors and systems are subject to extreme weather conditions and continuous stress at the outdoor testing site of our own test centre. Performance measurements, without the influence of weather conditions or seasonal interruptions, are possible at our indoor test laboratory; the measurements taken here satisfy official testing requirements.

Efficiency, performance and high-tech

Advances in the core technologies of soldering, welding and bonding enable us to manufacture solar collectors to the highest quality in industrial mass production. We create the basis for high-performance, consistently high quality products with an excellent price-to-performance ratio.

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GREENoneTEC 1
SOLAR COLLECTORS

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