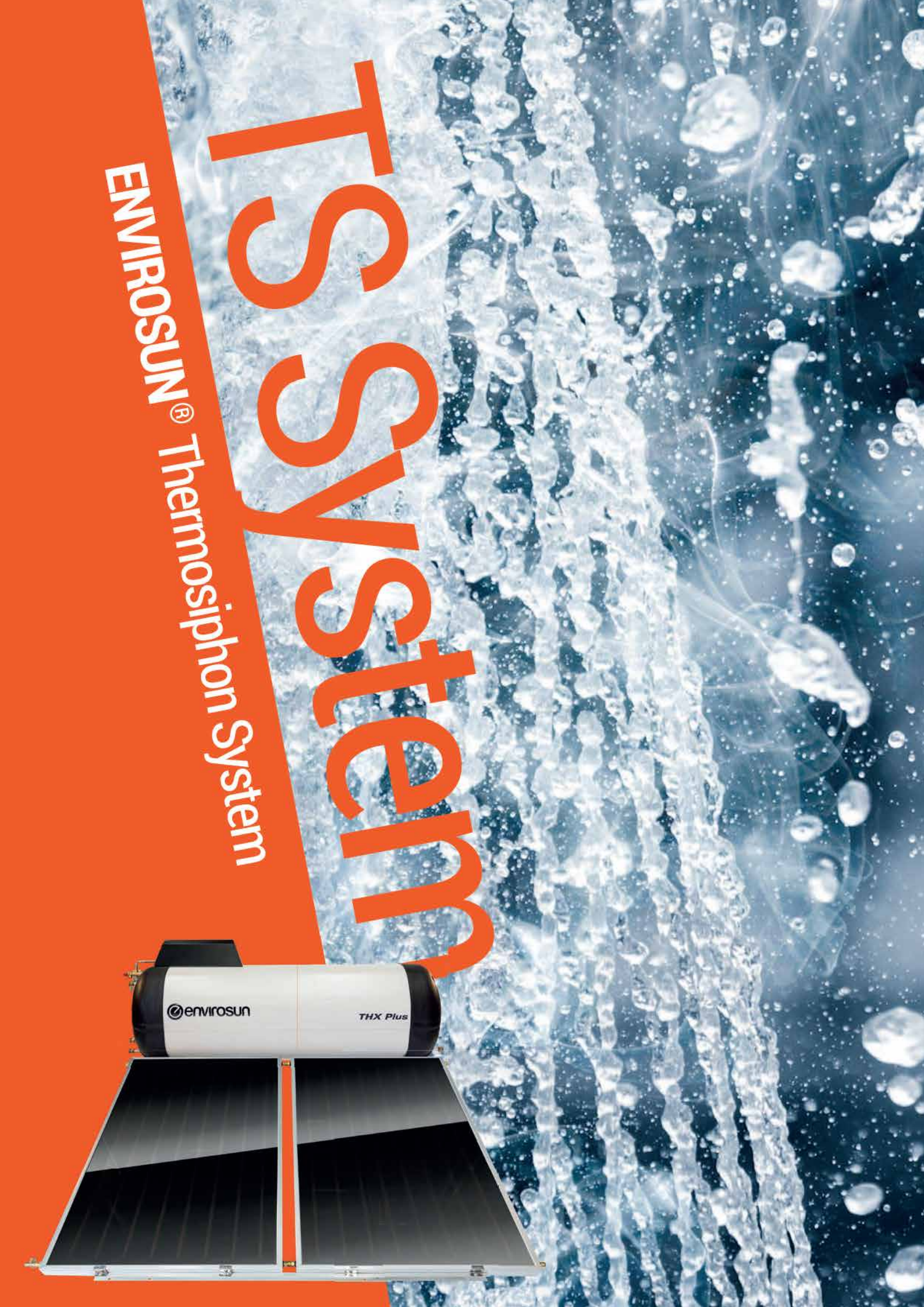


# TS System

ENVIRO SUN<sup>®</sup> Thermosiphon System







Australian  
Standard

AS2712: 2007  
Lic. SMK20021  
SAI Global



WaterMark

AS3498 Lic. WMKA21707  
SAI Global

## ENVIROSUN — SMARTER SOLAR SOLUTIONS

Everyone knows the benefits of solar water heating — by harnessing the sun's energy and converting it into hot water, a solar heater reduces your household's greenhouse gas emissions, saves you money on energy bills and adds value to your home.

Envirosun takes these benefits one step further, with a real commitment to the environment and to you.

The Envirosun story is one that encompasses over a quarter of a century of industry experience, innovation and commitment.

Building solar hot water systems is all that we do, and we do it well.

Our approach and philosophy is different — we are designers, not manufacturers; we are specifiers, not fabricators.

The benefit is that we're not shackled by an investment in out-dated plant and equipment. Instead we use the very best and latest components — globally sourced and matched to deliver performance, reliability and durability.

## TS AND THX SOLAR WATER HEATERS



### STEEL THAT'S STAINLESS

At the heart of our heaters is the DEJONG tank — a high-pressure cylinder manufactured in Holland specifically for us. DEJONG is one of Europe's leading, independent producers of stainless hot water tanks.

It has a history that tracks back some 40 years and each year it makes more than 120,000 tanks.

DEJONG understands that not every grade of stainless steel is suited to hot water applications and knows that the total manufacturing process is an important element in preserving the corrosion-resistance of the material.

That's why our DEJONG tanks are made exclusively from grade 444 stainless steel and are 'pickled and passivated' after fabrication — a process that ensures our tanks give the longest possible serviceable life.



# TS

## THERMOSIPHON SYSTEMS

### Features of the TS system

1. Tank and collectors roof-mounted as a single, integrated unit.
2. Maximum solar efficiency with no power input.
3. Technologically-advanced safety and control systems.
4. Closed circuit for maximum solar collector freeze and fouling protection (THX only).
5. Superior durability, reliability and cost-effectiveness.



### AS NATURAL AS GRAVITY

Thermosiphon flow is a natural process that drives the weather, currents in the ocean and water heated in a pot. It occurs as a result of the density difference between warm and cool water – warm-water, because it is less dense, naturally rises and displaces denser cool-water.

The same process drives our TS and THX solar water heaters. The storage tank sits on the roof immediately above and nestled against the solar collectors. This reduces the amount of pipework between the tanks and collectors and keeps heat loss down. It also means that as fluid is heated in the solar collectors, it can naturally rise up to the cooler storage tank.

Provided the fluid in the collectors is hotter than the base of the storage tank, circulation continues. As the collector temperature approaches that of the tank, circulation stops - automatically. The whole process occurs without the need for any external power to operate pumps or valves – and the flow is naturally optimised.

With our TS systems, hot water from the collectors flows to the middle of the storage tank, and displaces cooler water lying in the bottom of the tank. This in turn flows down into the collectors to be heated.

For our THX system, the hot collector fluid enters the jacket chamber around the storage tank, transfers its heat to the water within the tank and returns to the solar collectors for reheating.







**STANDARDSMARK LICENCE**

SAI Global hereby grants:

**Energie Group Australia Pty Ltd**  
ABN 60 166 302 787

480 Victoria Road, Malaga, WA 6090, Australia

**StandardsMark Licence**

Manufactured to:

**AS/NZS 2712:2007 - Solar and heat pump water heaters - Design and construction**

The StandardsMark Licensee's right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

**Certificate No:SMKP20021**

**Issued: 16 November 2017**

**Expires: 3 July 2018**

**Originally Certified: 4 July 2003**

**Current Certification: 16 November 2017**

Nicole Grenham  
General Manager SAI Global Certification Services



\* For details of manufacture, refer to the licensee  
The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 884 842) and is issued under license by SAI Global Certification Services Pty Limited (A.C.N. 100 116 889). SAI Global (NSW) Centre Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its required date to [www.sai-global.com](http://www.sai-global.com) for the list of product models.



**CERTIFICATE OF CONFORMITY**

SAI Global hereby grants:

**Energie Group Australia Pty Ltd**  
ABN 60 166 302 787

480 Victoria Road, Malaga, WA 6090, Australia

**WaterMark Certificate of Conformity - Level 1**

Evaluated to:

**AS 3498-2009 - Authorization requirements for plumbing products - Water heaters and hot-water storage tanks**

The WaterMark Licensee's right to use or arrange the use of the WATERMARK as shown below only in respect of the goods described and detailed on the product schedule identified on [www.sai-global.com](http://www.sai-global.com) which are produced by the WaterMark Licensee or on behalf of the WaterMark Licensee and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the WATERMARK and the Terms and Conditions for certification. The WaterMark Licensee covenants to comply with all the Rules and Terms and Conditions.

**Certificate No:WVWKA21707**

**Issued: 8 December 2016**

**Expires: 7 July 2020**

**Originally Certified: 8 July 2010**

**Current Certification: 8 December 2016**

Nicole Grenham  
General Manager SAI Global Certification Services



\* For details of manufacture, refer to the licensee  
The WATERMARK is a registered certification trademark of Australian Building Codes Board (ABCB) 74 009 000 000 and is issued under license by SAI Global Certification Services Pty Limited (A.C.N. 100 116 889). SAI Global (NSW) Centre Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its required date to [www.sai-global.com](http://www.sai-global.com) for the list of product models.



Available from Hot Water Supplies

**HWS**

[www.envirosunhotwater.com.au](http://www.envirosunhotwater.com.au)