

Harness the power of the sun

# Heatseeker Maxi Solar Pool Heating

High performance evacuated tube technology



## Getting the most out of your pool

A pool or spa is a considerable investment and solar heating is a great way to maximise the use and enjoyment you get from it. Naturally, it's wise to make a well-informed decision on which solar system will work best and give you maximum access to a warm pool with minimum expense.

Supreme Heating has a range of solar heating products designed to minimise running costs and CO<sup>2</sup> emissions and is proud to include the Heatseeker Maxi system in its range. The Heatseeker Maxi system is ideal for indoor, lap pool and commercial applications, where year round heating is required. This high performance system can be mounted on a frame, making it ideal for any roof, and needs only 50% of the area of a traditional strip system to duplicate its performance.

- ✓ Award winning technology
- ✓ 100% cockatoo proof
- ✓ Minimal roof space required
- ✓ Ideal for high wind areas
- ✓ Year round heating input
- ✓ Hail rated to AS2712

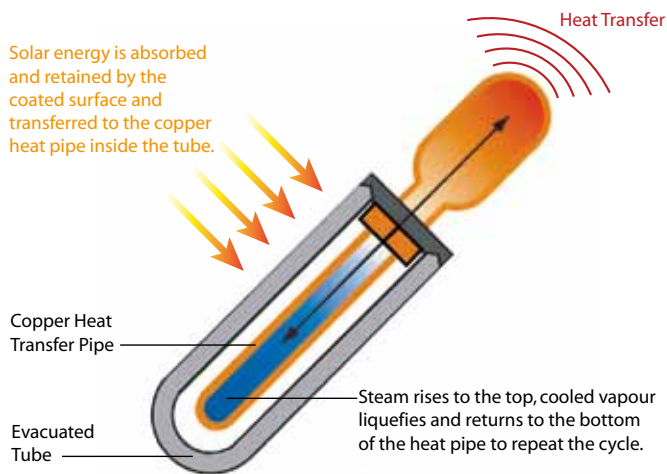


**Supreme  
Heating**

*Specialists in heating for homes & pools*



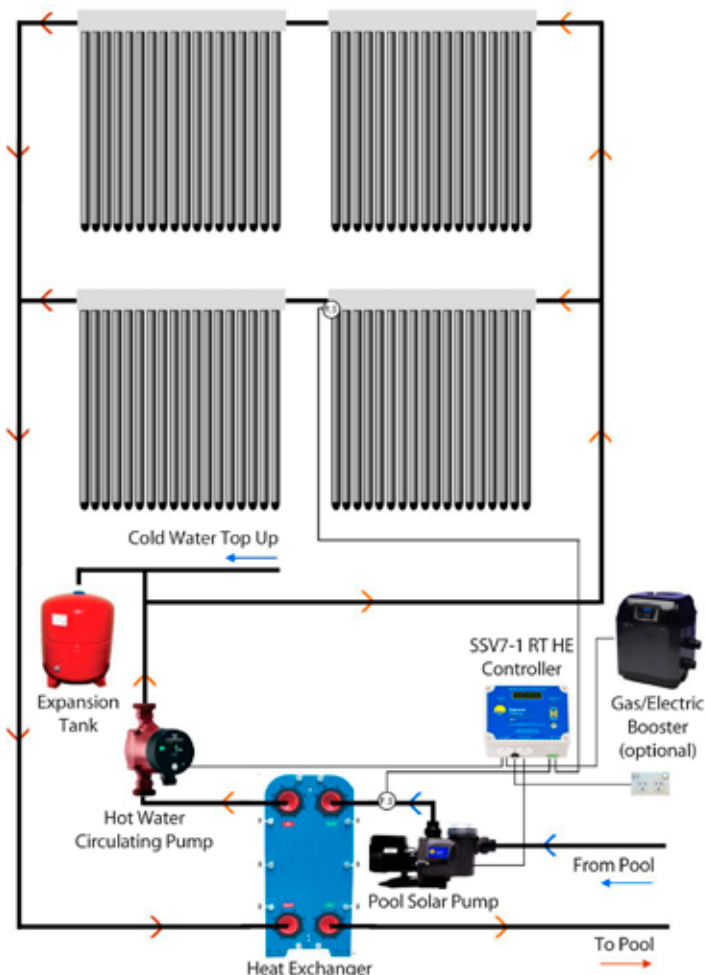
**Solar Pool Heating**  
Heatseeker Maxi



### What is an evacuated heat pipe tube?

The key component of this system is the evacuated tube, which consists of an inner and outer glass tube that has been vacuum sealed together. The tubes are made from highly transparent and extremely strong borosilicate glass, which are able to resist the impact of hail up to 25mm in diameter and have the ability to handle stress caused by extreme temperatures. The inner tube is coated with a special selective coating, 'novel sputtering', developed at the University of Sydney, which allows solar radiation to be effectively absorbed. This means that light energy is absorbed and turned into heat energy even on cloudy days. A properly designed evacuated tube system can provide energy savings of more than 50% depending on where you are situated in Australia, saving you thousands of dollars annually.

On a global level, evacuated tubes are the highest performing solar collector due to their ability to absorb solar energy on cold and cloudy days. When averaged out over an entire year in Australia, evacuated tube collectors can increase efficiencies at least 40% above a standard flat plate hot water system and in excess of 100% compared to a normal strip pool heating system.



### How does evacuated tube solar heating work?

In this type of system the pool water is heated indirectly through a very efficient titanium heat exchanger. The evacuated tube reacts to light energy and creates steam vapour that rises to the bulb on the end of the heat pipe that is inserted into the glass tube. The energy is transferred into the circulating water at the manifold and the hot water is returned to the heat exchanger. A specific automatic controller coordinates the heating process.

The sizing of the evacuated tube system in relation to an outdoor pool is approximately 10,000L for every panel. This creates a much more compact system in comparison to a traditional strip or panel system thus allowing more options when considering roof space.

For year round heating or high temperature applications, the panel sizing can be increased to suit.

### Domestic or Commercial solar hot water applications

The evacuated tube system can also be used to pre-heat your home or commercial facilities hot water tanks.

Prioritisation or surplus energy heat rejection can be automatically controlled in the heating process.

For further information, please contact Supreme Heating.

### Automatic Control Systems

Supreme Heating has combined the latest technology, together with user friendly concepts in the development of our automatic solar controllers and pumps specifically for the Heatseeker Maxi system.



The controller features include built-in frost protection, anti-boil function, a LCD (liquid crystal display) module to suit hot water applications and a priority link with any primary heating source to ensure maximum solar efficiency.

### Purpose-Built Solar Pump

Manufactured exclusively in Australia since 2005, Supreme Heating's purpose-built SS Series Solar Pumps were the first to be released into the market.

The SS Solar Pump is specifically designed to suit the solar application where water needs to be pumped onto a high roof and correct flow rates achieved for optimum efficiency.



*"This generation technology is recognised by global experts as the most efficient solar hot water system available"*

Jared O'Meara, Entrend Australia Pty Ltd

For more details contact: