ZANE

Solar Pool Heating

Established since 1974

ZANE GULFPANEL | Get the most out of your swimming pool with Zane solar pool heating

www.zane.com.au

Introduction

Zane Gulfpanel harnesses the natural power of the sun and extends the swimming season by creating beautiful warm water, enabling your family to spend more time relaxing and having fun in the pool without costing the earth or harming the environment.

Custom designed for residential and commercial swimming pools, Zane's integrated pool heating options may include teaming solar with either a pool heat pump or a gas pool heater to increase your swimming options whilst minimising running costs.

- Modular one-piece solar panels
- Outstanding heat transfer properties
- Exceptional durability and UV stabilised
- High resistance to attacks from birds and wildlife

Extend your summer

A swimming pool is a major financial investment. Getting the most out of your pool, means keeping the pool at a swimmable temperature.

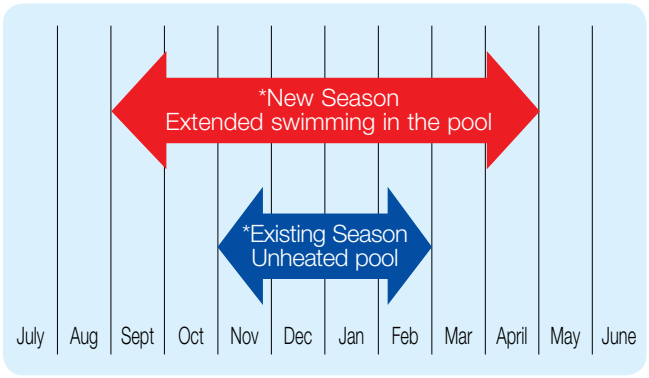
Heating the pool during the swimming season

There are many days during the “Swimming Season” when the pool is still too cool to swim. Zane solar heating allows you to control the pool temperature throughout the “Swimming Season”.

Heating the pool to extend the swimming season

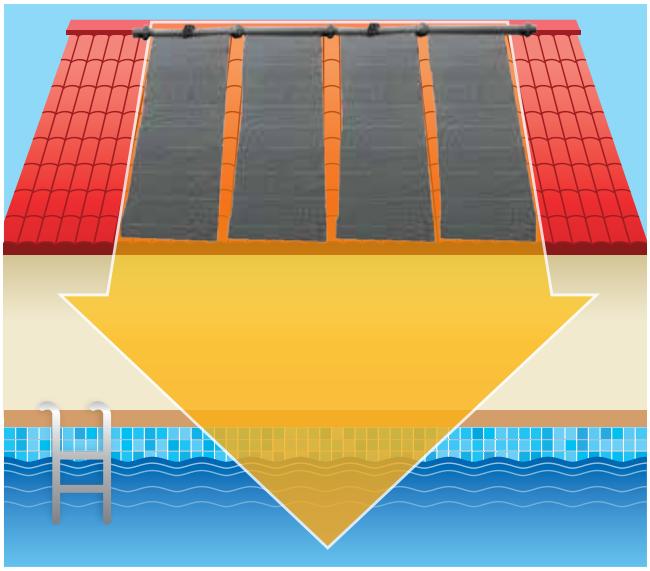
People generally find a pool at a usable temperature for only 3 to 4 months of the year. A solar heated pool can be expected to maintain the “swimmable” temperatures for 6 to 9 months of the year.

Imagine how much added enjoyment your pool would provide if it was warm for more hours in every day and for more days in every year.



How does Zane Solar work?

Zane Solar absorbs the sun’s heat and transfers it to your swimming pool. The water in your pool is heated as it flows through a series of solar Gulfpanels strategically installed on your roof. The heated water is returned to the pool to increase its overall temperature.



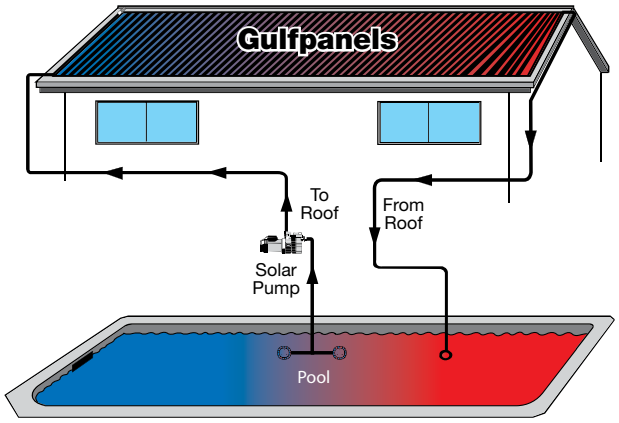
Solar pays for itself

Zane Solar pays for itself in just a few years. After the initial setup cost, the ongoing running costs are minimal as the heat is provided free from the sun.

A Zane solar system can be installed either as an independent system or an integrated system.

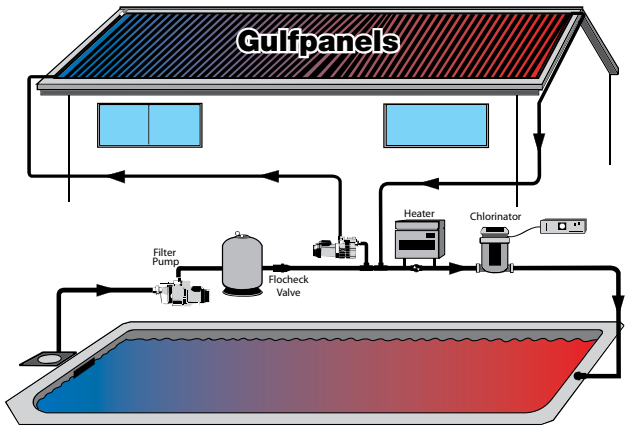
Independent System

- In an independent system, the pool water is pumped directly from the pool to the solar Gulfpanels on the roof and then returns the heated water back to the pool.
- Independent systems require the pool builder to plan for solar system, or to have the professional support of a Zane dealer from the initial stages.
- Independent systems are simple to install and do not interrupt the filtration system.



Integrated Solar System

- An integrated system involves diverting the flow of water after the filtration system. Generally a secondary pump pushes the filtered water up to the solar panels on the roof and returns the heated water back to the pool via the existing pool water return lines.
- An integrated system can be easily retro-fitted without affecting any other part of the pool structure and it uses the filtered water of the pool to ensure that clean water is sent to the roof panels.



The Zane Method

At Zane we use “The Calculated method” which is applied in either manual or computer calculations. In this method, we give a numerical value to each of the factors listed in the table and then relate them to the pool surface area.

Custom designed

The Zane method is designed to calculate the amount of collector required to achieve the maximum “Cost Effective” result. This is called the “Full System” and may provide a more comfortable pool during the existing season plus up to four months extension of that season. To predict the performance of your system with an acceptable degree of accuracy, it is necessary to first complete this calculation. Having completed the calculation, it is a simple matter to adjust the result either up or down to increase or decrease the system size to suit your personal needs e.g.: 75% of the “Full” system area will provide you with 75% of the result, i.e.: a more comfortable pool during your existing season plus a three month extension.

GEOGRAPHICAL LOCATION	Colder locations require more collector to produce any given result.
COLLECTOR ORIENTATION	North facing is best. More collector is needed if the roof is not north facing.
COLLECTOR SLOPE	A flat roof receives less sun in winter than a pitched northerly-facing roof.
ROOF COLOUR	When forming part of the collector a dark roof will contribute more energy than a light coloured one.
ROOF TYPE	Metal roofs are better heat conductors than most other types. Insulated roofs are also better.
SHADE ON THE ROOF	Some allowance should be made for trees, neighbouring properties etc. that may shade the collector for the part of the day.
WIND OVER THE ROOF	A roof area exposed to the wind will require more collector to be fitted to compensate for heat loss.
SHADE ON THE POOL	A shaded pool will normally be colder than one constantly bathed in sunlight. Therefore it will need more collector.
WIND OVER THE POOL	Wind over the water accelerates heat loss from the pool. Pools open to the wind need more collector than sheltered pools.
POOL COLOUR	Provided it receives sunlight, a dark coloured pool will normally be warmer than a light coloured one.

Zane commercial solar

Zane solar systems have installed commercial solar systems at many prestigious and well-known locations. Our expertise has enabled us to successfully complete large commercial projects of a size and scope completely beyond the reach of most others in the industry.

Zane Solar Gulfpanel

Extensive research, development and testing have gone into the refinement of Zane Solar Gulfpanel. Gulfpanels are precision injection moulded from a high grade formulated polymer, selected for its outstanding heat transfer properties and its exceptional durability. Gulfpanels are UV stabilised and designed to withstand extreme weather conditions.

Gulfpanel's modular design allows the creation of a solar system, which is easily adaptable to a variety of roof configurations. Each Gulfpanel consists of a multitude of miniature solar absorber tubes to maximise its surface area exposed to the sun.

The solar absorber's thick circular wall structure is highly resistant to attacks from birds and wildlife. Gulfpanel's seamless one piece construction eliminates any welds or seams, ensuring long lasting performance.

The modular panels are connected together via reinforced water tight unions without the need for gluing or the use of clamps, guaranteeing a robust leak free connection.

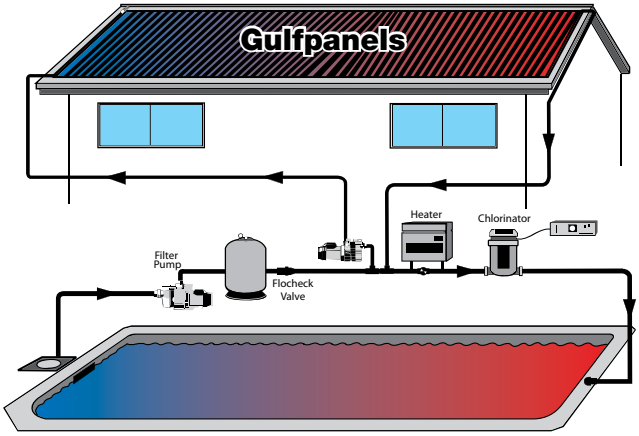
Gulfpanels are securely fastened to the roof via a series of custom built roof clamps designed to allow for expansion and contraction of the Gulfpanels

Zane Solar controllers

A Zane solar controller ensures your pool's temperature is constantly monitored, without the need for your direct supervision. Once programmed to your needs, the controller will determine precisely if it is to heat your pool, and by how much.

Two temperature sensing probes are used to measure the pool water and roof temperatures.

- When the roof temperature exceeds pool temperature, the solar controller senses a solar gain and automatically activates the pool heating system.
- When the temperature of the pool water is above your pre-determined 'top out' temperature, no heating will occur until the pool water cools.



ZX3000

The ZX3000 computerised solar controller can control both the filter and the solar systems for your pool or spa. The ZX 3000 also has the ability to control extra heating equipment to work in conjunction with the solar system e.g. gas heater, heat pumps.

PC5

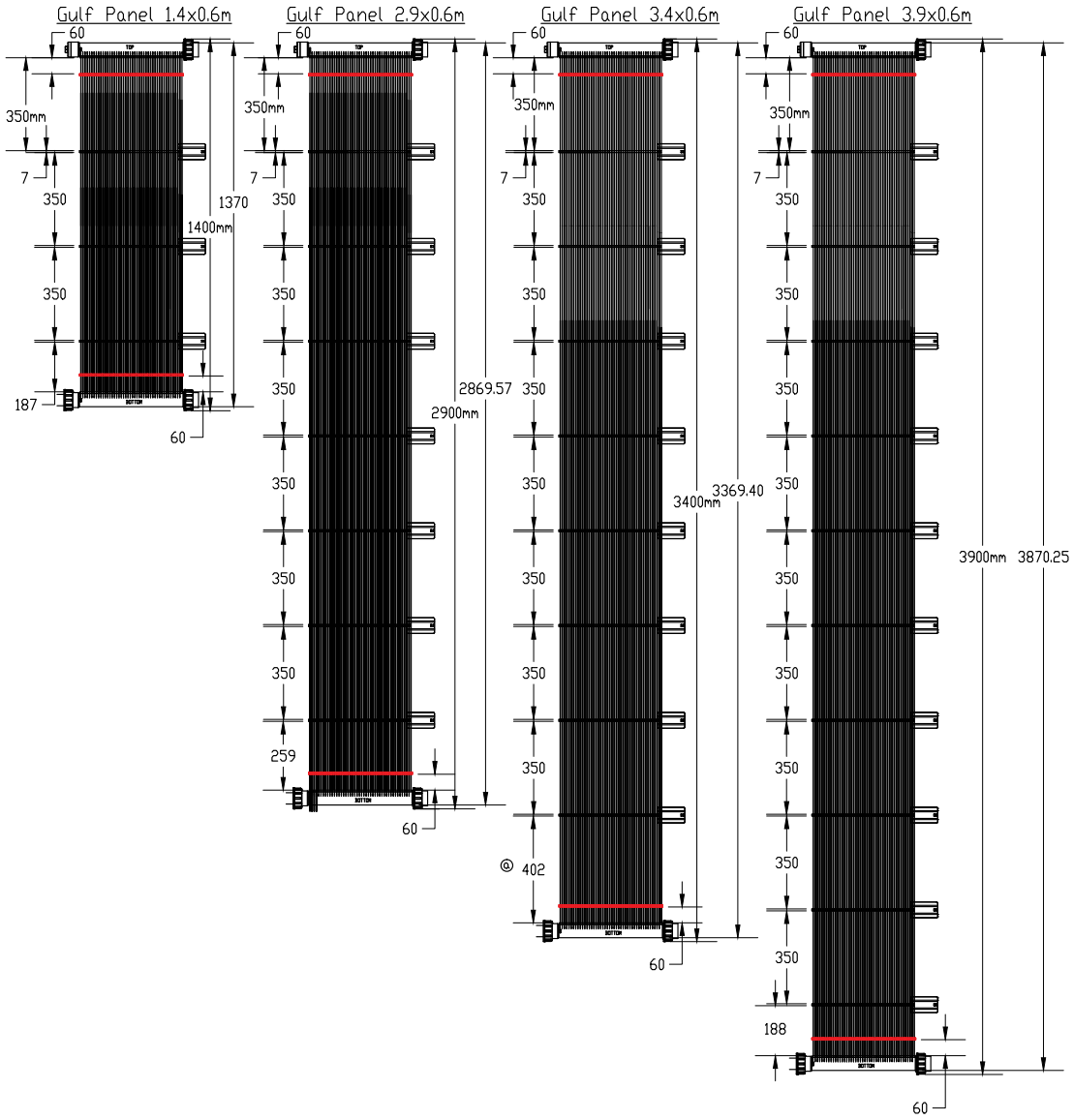
The PC5 computerised solar controller has an "Auto", "Off" and "Manual" switch with a "top out" temperature control, winter mode and digital temperature readout.

Solar booster pumps

Zane Solar systems require efficient circulation to function at its peak performance. For this reason, we use a specially designed range of Solar booster pumps incorporating the essential features required to make them compatible with Zane Solar systems.

Gulfpanel Dimensions and Design

Product Code	8640800	8641700	8642000	8642300
Panel Length (m)	1.4	2.9	3.4	3.9
Panel Width	0.6	0.6	0.6	0.6
Overall surface area (m^2)	0.84	1.74	2.04	2.34
Effective surface area (m^2)	0.7	1.5	1.8	2.1
Required flow rate (L/min)	2.52	5.22	6.12	7.02
Weight Dry (kg)	2.5	5.2	5.9	7.0
Weight Wet (kg)	6.1	10.2	11.4	13.0
Number of Tube Supports	3	7	8	10
Filled area Weight (kg/m^2)	7.3	5.9	5.6	5.5



The Zane Guarantee

Zane's systems are only available from Authorised Zane dealers. This way, Zane can ensure that every system sold is correctly designed and installed.

Zane dealers are required to undertake intensive training to ensure they adhere to Zane's design and professional installation practices. A nationwide network of dealerships ensures service is always available.

Every Zane solar system is individually inspected and a comprehensive 'Commissioning Report' check list is completed and issued by the Zane dealer.

Zane solar systems conform in every way with the Australian Standards.

Customer Protection Plan

Every Zane Gulfpanel system owner is covered by an exclusive Customer Protection Plan which provides them with direct cover from Zane.

Under our Customer Protection Plan you benefit by:

- ✓ Our dealers guarantee their installation and workmanship for 2 years from the date of installation.
- ✓ 10-year warranty on solar Gulfpanel absorber material PLUS a further 5-year warranty on pro-rata basis.
- ✓ 7 Year Limited Wildlife Warranty. 2-year warranty PLUS a further 5-year warranty on a pro-rata basis.
- ✓ 2-year warranty on solar controllers (for probe and lead 1-year).
- ✓ 2-year warranty on all other Zane components.
- ✓ Zane's warranty is backed by Waterco Ltd - the leading supplier to the pool industry.
- ✓ At Zane, all product warranties are issued direct from our central office to the owner. It is a good idea to enter into a seasonal maintenance program with your dealer.

* See the Zane Warranty at www.zane.com.au/solar-pool-heating/warranty.

Zane Pool Heating

Your Zane Dealer is also able to supply Turbotemp gas heaters and Electroheat heat pumps to compliment your solar heating system. Contact your Zane Dealer for more information.

Turbotemp™
POOL AND SPA HEATING

Electr Heat MKIII

Founded in 1974, Zane is an Australian company specialising in customised solar and conventional heating systems for residential, commercial and Olympic swimming pools.

Zane has been synonymous with the Australian pool industry for nearly 40 years due to its uncompromising commitment to quality, reliability and efficiency.

In addition to creating its versatile, integrated solar pool heating system, Zane also established a nationwide network of authorised dealers. This not only ensures every system sold is correctly designed and installed but also serviced by specially trained inspectors.

Furthermore, Zane solar heating systems are independently tested to meet exacting Australian Standards.

Zane is a subsidiary of Waterco Ltd, an ASX listed company manufacturing and distributing a diverse range of products for the international swimming pool and water treatment markets.

ZANE
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WATERCO
water, the liquid of life

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