

## Zane Solar controllers

A Zane solar controller ensures that 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.

## 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.



## 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.



## Flocheck valve

The Zane Flocheck valve is integrated with the solar controller and will stop the solar pump if the pool filtration pump is not working.



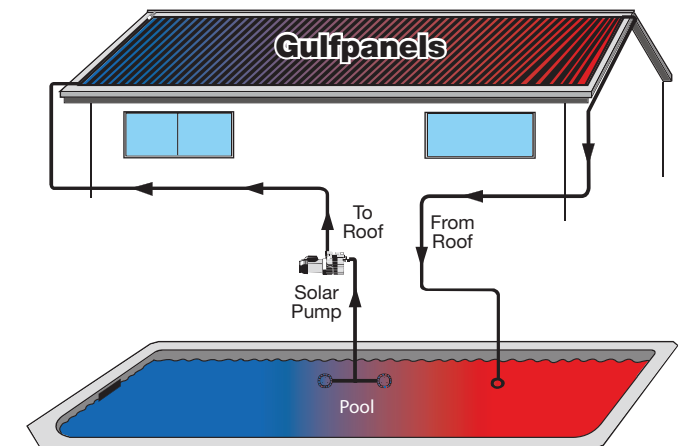
## Solar pays for itself

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.

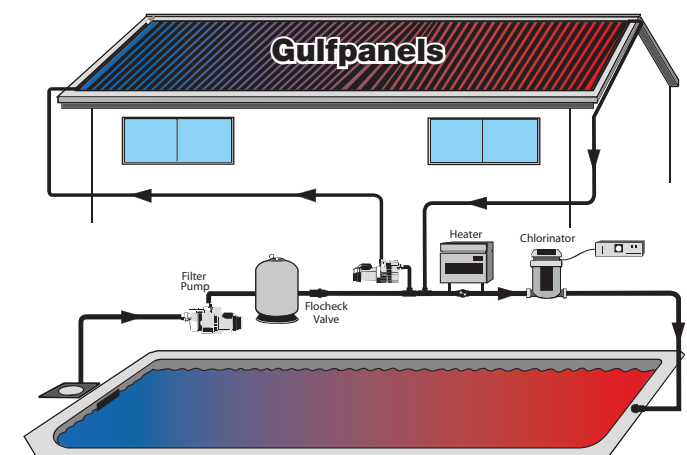
### INDEPENDENT SYSTEM

- 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.





## Zane Solar Gulfpanel

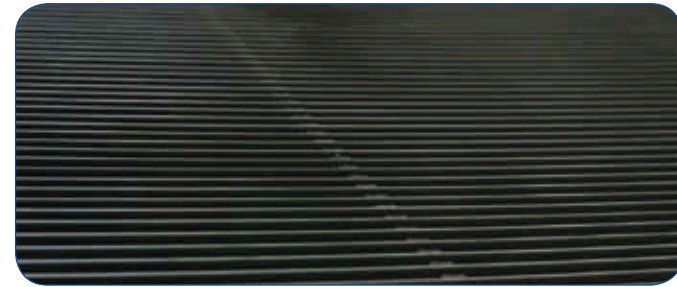
Extensive research, development and testing have gone into the refinement of Zane Solar Gulfpanel.

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.



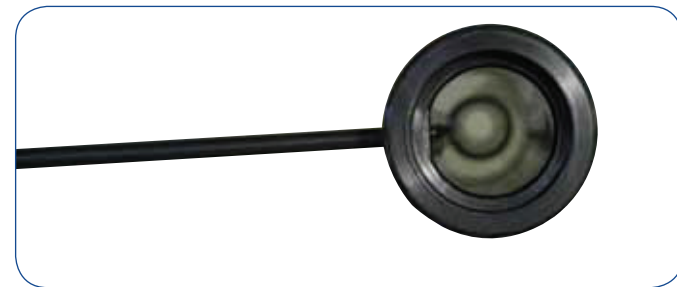
Gulfpanel's modular design allows the creation of a solar system, which is easily adaptable to a variety of roof configurations.



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 impervious 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

*Extend your summer with Zane*

## Inline strainer

Installed after the solar pump, the Inline strainer is designed for removal of suspended solids from the water so as not to block the solar system.



## Vacuum relief valve

A Vacuum relief valve prevents the absorber from continually 'working' due to the constant changes within the system from negative to positive pressure, extending the life of the system.

By allowing water to drain from the system, problems associated with freezing, boiling and stagnation are eliminated.

