

**Swim in the  
Warmth  
of the Sun**

**ECOSUN<sup>®</sup>**

Solar Pool Heating Systems

**Environmentally Friendly  
Pool Heating for the  
21st Century**

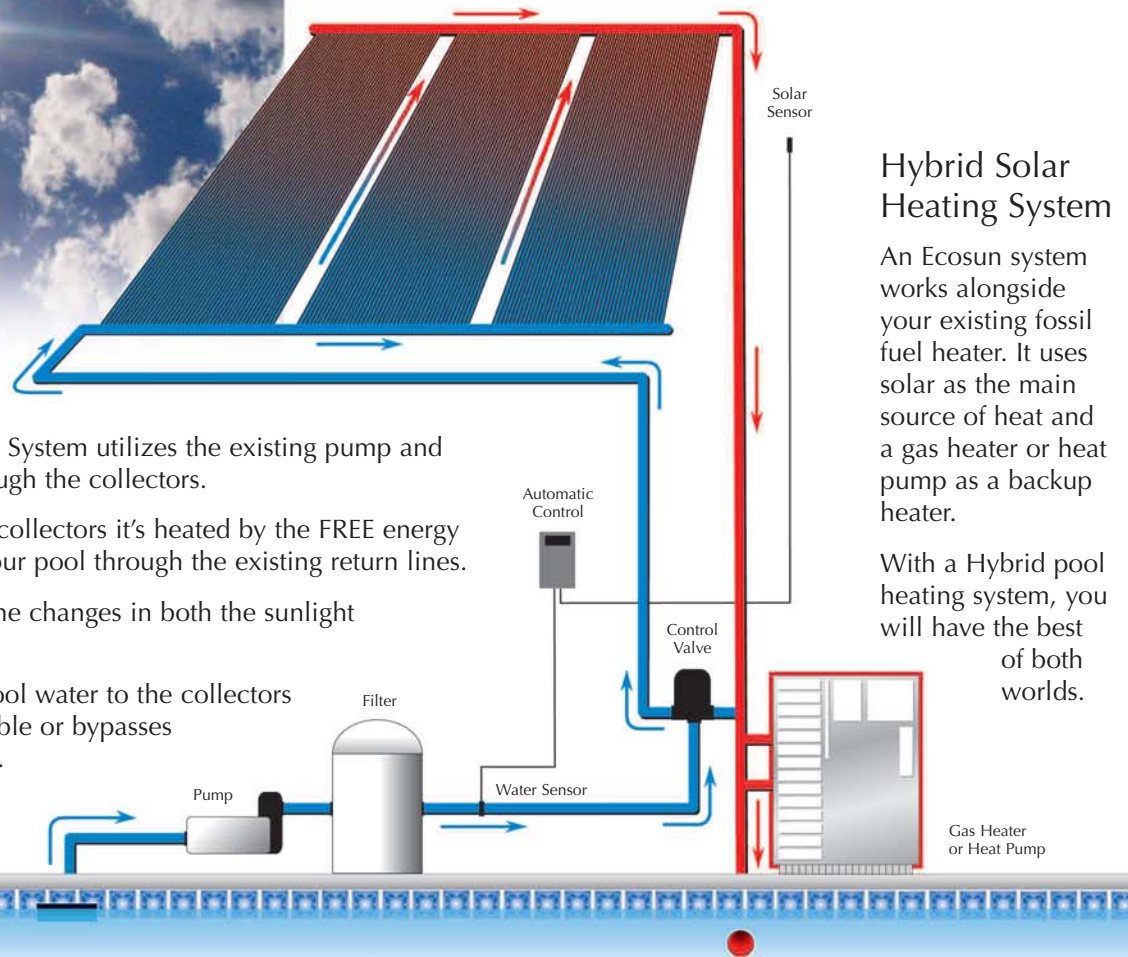
# How an Ecosun Solar System Works

Your Ecosun Solar Pool Heating System utilizes the existing pump and filter to circulate the water through the collectors.

As the water flows through the collectors it's heated by the FREE energy from the sun and returned to your pool through the existing return lines.

The Automatic Control senses the changes in both the sunlight and water temperature.

The Control Valve diverts the pool water to the collectors when sufficient energy is available or bypasses them when heat is not required.

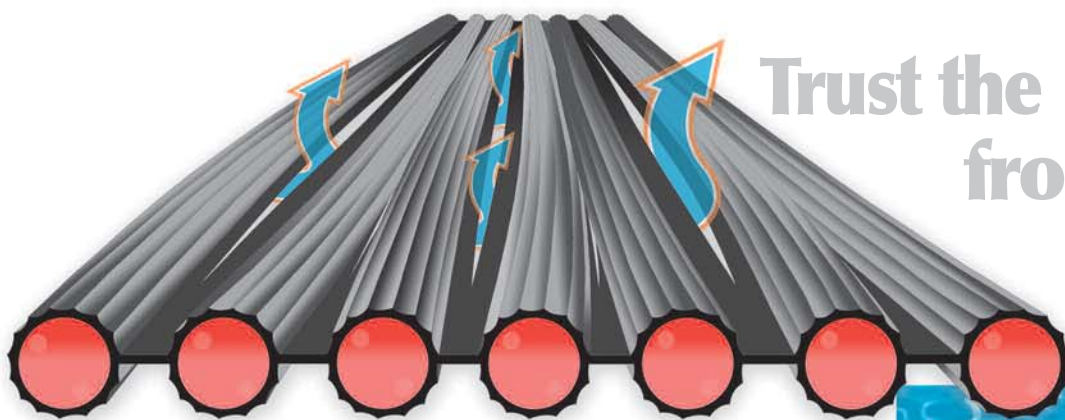


## Hybrid Solar Heating System

An Ecosun system works alongside your existing fossil fuel heater. It uses solar as the main source of heat and a gas heater or heat pump as a backup heater.

With a Hybrid pool heating system, you will have the best of both worlds.

Gas Heater or Heat Pump



## Trust the Ecosun System from Aquatherm

With an Ecosun Solar Pool Heater, you can relax knowing that you have chosen the very best!

The Ecosun Solar Pool Heating System with its' patent pending vented web and unique fluted surface design is the most advanced solar pool heating system available today.

The vented web allows for moisture ventilation for the roof and wind load relief during adverse weather conditions. The fluted surface design provides over 10% more collector area and has received one of the highest performance ratings ever recorded.

Used with our stainless steel mounting system, only Ecosun combines the strength and high performance of a full plate collector with the benefits of roof ventilation and reduced wind load. Ecosun is a system for the 21st Century that is unmatched in quality, value and performance.



# Evolution of Solar Collector Design

## 70s

### Square Tube on Tube

Early efforts at making solar pool heating collectors used a square tube design that was easy to manufacture but was subject to buckling and tube separations. Tube separation resulted from the design's inability to handle expansion and contraction. The thicker tube walls produced low efficiency ratings compared to today's collectors.



## 80s

### Round Tube on Tube

The next attempt used the same concept as square tubes but used round tubes with thinner walls. This produced higher efficiencies but the design was still plagued with buckling and weakening of the collector, resulting from expansion and contraction as the collector heated and cooled.



## 90s

### Loose Tube Design

Another attempt was made using separate tubes held together by plastic brackets. This design did eliminate buckling but the lightweight hardware allowed shifting of the collectors on the mounting surface. The loose tubes also provided a "trap" for organic debris under the collectors. Performance of these collectors was low because sunlight passed between the tubes and the heat was not transferred to the water. Also, any breezes passing through the loose tubes affected the performance significantly.



## 2000

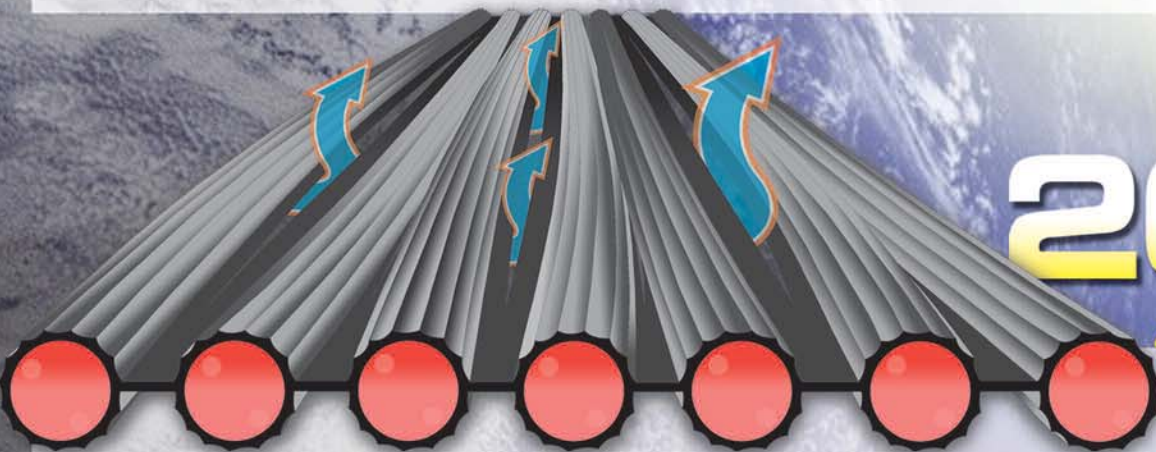
*...and Beyond*

### Vented Web and Fluted Surface Design

With its' patent pending vented web and unique fluted surface, the Ecosun Hybrid Collector has evolved from lessons learned in over 30 years of collector design resulting in the most advanced solar pool heating collector available today.

The vented web allows for moisture ventilation for the roof and wind load relief during adverse weather conditions. The fluted surface design provides over 10% more collector area and has received one of the highest performance ratings ever recorded.

Used with our stainless steel mounting system, only the Ecosun Hybrid combines the strength and high performance of a full plate collector with the benefits of roof ventilation and reduced wind load. Ecosun is a system for the 21st Century that is unmatched in quality, value and performance.



Your "Partners in Quality"  
Representative is:



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