

Hybrid Solar Pool Heating Technology for the 21st Century

ECOSUN®
Solar Pool Heating Systems

The new Ecosun collector is the world's first Hybrid Solar Pool Heating Collector. These high performance collectors are a product of Aquatherm Industries, the largest manufacturer of solar pool heating systems in the United States.

Aquatherm Industries has been featured on CNBC TV, and has been cited in numerous business publications for its dedication to cutting edge technology, as well as its firm commitment to customer satisfaction.

A product of over thirty years of manufacturing experience, Ecosun collectors have proven themselves in tens of thousands of installations around the world. Before leaving the factory, each collector is fully tested to insure trouble free startups. When you choose Ecosun, you are choosing solar technology for the 21st century.

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

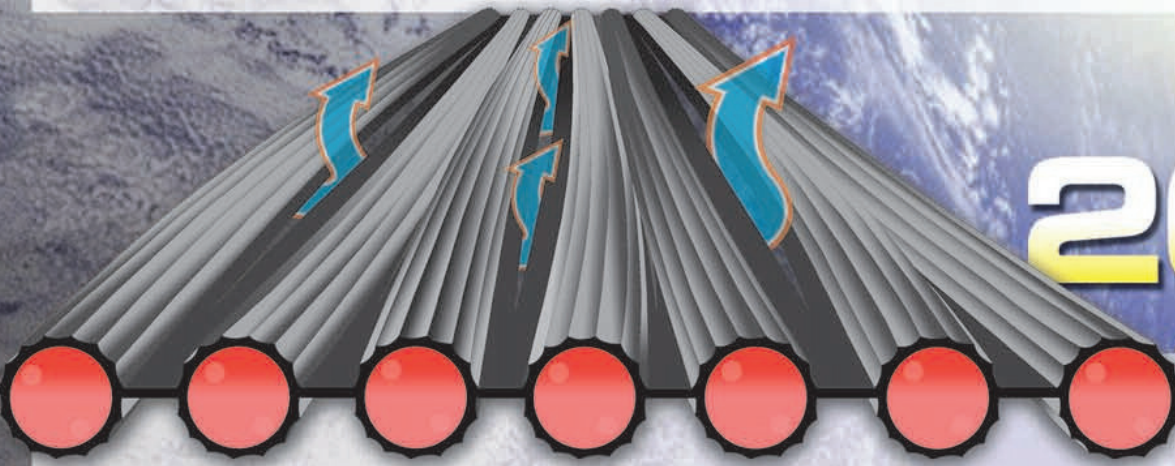
The next attempt used the same concept as square tubes but used round tubes with thinner walls. This produced higher efficiencies but the design was still plagued with buckling and weakening of the collector, resulting from expansion and contraction as the collector heated and cooled.

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:

