

Built to Last

Ultra-Swim solar collectors have been designed from over thirty years of experience in manufacturing of solar heating equipment. They have undergone extensive testing resulting in performance certification and meet or exceed the criteria for approval from all nationally and locally accredited independent laboratories and recognized approval agencies. Ultra-Swim collectors are performance rated at 1,000 BTU's per square foot by the Florida Solar Energy Center.

Available in either a low profile 1 1/2" design or a commercial grade heavy duty 2" manifold for today's high flow, high efficiency pool filtration systems.

DIMENSIONS

Model Number	.16045-12	.16045-10	.16045-8
Nominal Size ft.	4x12	4x10	4x8
Overall Collector Length-in	144.0	120.0	96.0
Collector Width-in	47.0	47.0	47.0
Manifold Length-in	50.5	50.5	50.5
Manifold O.D.-in	1.9	1.9	1.9
Manifold I.D.-in	1.5	1.5	1.5
Gross Collector Area-ft ²	47.3	39.3	31.4
Net Collector Area-ft ²	47.3	39.3	31.4

16050-12	.16050-10	.16050-8
4x12	4x10	4x8
144.0	120.0	96.0
47.0	47.0	47.0
50.5	50.5	50.5
2.4	2.4	2.4
2.0	2.0	2.0
47.3	39.3	31.4
47.3	39.3	31.4

WEIGHTS

Dry-lbs	.21.3	.17.1	.14.3
Wet-lbs	48.0	41.6	35.1
Wet lbs-ft ²	1.01	1.06	1.12
Fluid Capacity-gal	3.2	2.9	2.5

22.3	18.1	15.3
54.0	47.6	41.1
1.14	1.20	1.31
3.8	3.5	3.1

FLUID FLOW RATES

Maximum-GPM	10.0	10.0	10.00
Minimum-GPM	3.0	2.5	2.5
Recommended-GPM	5.0	4.0	3.3
Max. Collector with Single Feed @ Recommended Flow Rate	10	12	12

10.0	10.0	10.0
3.0	2.5	2.5
5.0	4.0	3.3
12	14	14

PRESSURES

Pressure Drop: 0.14 ft head (0.06PSI) pressure loss @ recommended flow rate 0.09 ft head (0.04PSI) pressure loss @ minimum flow rate
 Max. Fluid Pressure: Greater than 85 PSI @ 80°F
 Recommended Max. Operating Pressure: 35 PSI @ 140°F

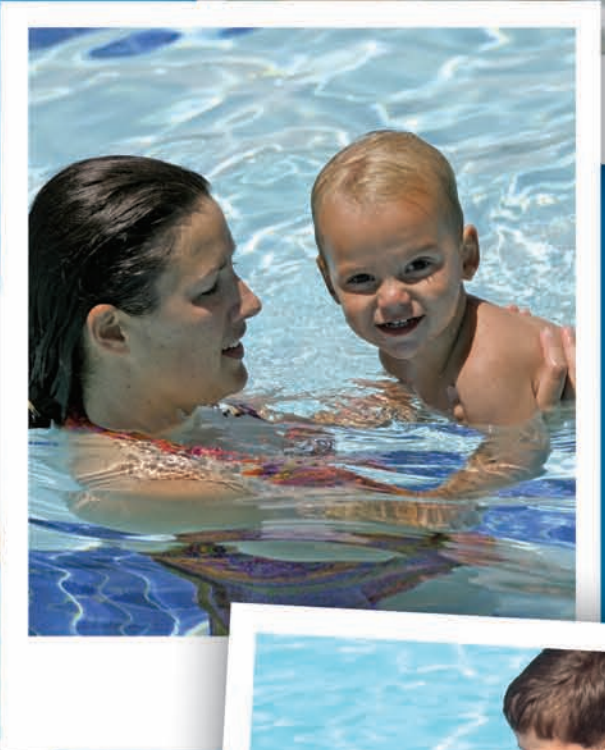
THERMAL PERFORMANCE RATINGS

Thermal Performance Equation -n = 85.8 - 3.42
 Incident Angle Modifier-Kqr = 1.0 - 0.03
 (Rated in accordance with ASHRAE standard 96-80)

Florida Solar Energy Center Certification
 (BTU's per standard day)
 4x12=47,200 / 4x10=39,300 / 4x8=31,500

TECHNICAL DATA

Enjoy your own heated pool



Made in the USA
 ...and proud of it!



Available through:



Simply Wonderful

Do you remember why you wanted a pool?

- Poolside Parties
- Early Morning Workouts
- Family Fun
- Romantic Late-Night Swims

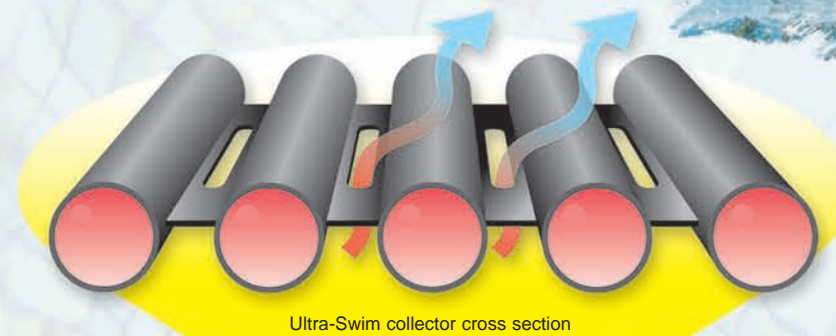
Heating your pool with an Ultra-Swim Solar Pool Heater means more enjoyment, more often. Hundreds-of-thousands of pool owners have extended their swimming season with solar, and are now realizing the full potential of their pools.



Ultra-Swim Solar Collectors

Ten Year Warranty

Ultra-Swim collectors carry the strongest warranty in the business because they are backed by Aquatherm Industries. Every warranty on every collector has been honored for more than thirty years, so your satisfaction and peace of mind are assured. You can relax with the knowledge that you own the "Best Backed" system available in the world.



Strategically placed slots in the webbing of Ultra-Swim Collectors prevent moisture buildup under the collector to preserve the life of the roof. These same slots allow pressure relief during high winds so you can expect your Ultra-Swim System to still be working long after the storm has passed.

This combination of features is unique to Ultra-Swim and blends all the strength and performance of a full plate collector with the benefits of wind load protection and moisture ventilation for your roof.

Ultra-Swim Quality and Reliability makes it the Pool Professional's Preferred Solar Pool Heating System.

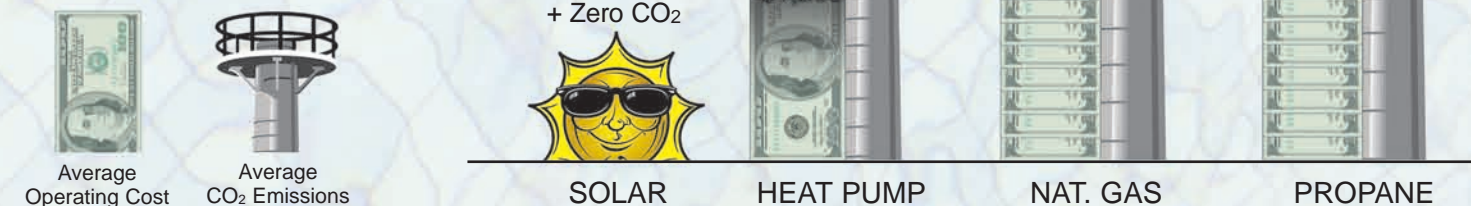
Sunshine Lets You Save

Dollar for dollar, of all the options available to heat your pool, solar energy is the most cost-effective and environmentally friendly method available. In fact, solar pool heating is so effective that it's the largest use of solar thermal energy in the U.S.... accounting for over 90% of all solar collector shipments!

(Source Department of Energy Solar Collector Activity Report).

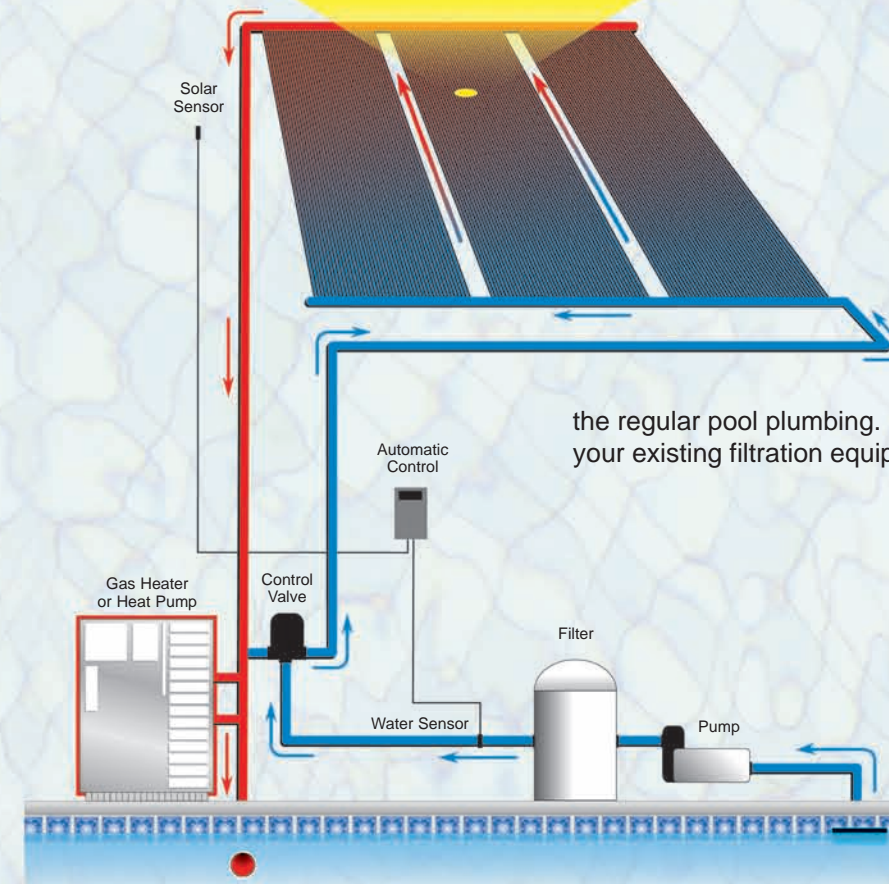
ANNUAL OPERATING COST and EMISSIONS

(5-6 month heating period for a 120,000 BTU heat pump or 400,000 BTU gas heater)



Wonderfully Simple

Using your existing pool pump, water is circulated through the many small passages of the solar collector, where it is warmed by the sun. This warm water then flows directly back to your pool through the regular pool plumbing. Ultra-Swim Solar Pool Heaters are designed to work with your existing filtration equipment as well as the latest in pool automation technology.



Hybrid Solar Pool Heating

An Ultra-Swim system can also work 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'll have the best of both worlds.