

# Sun-Swim® Solar Collectors

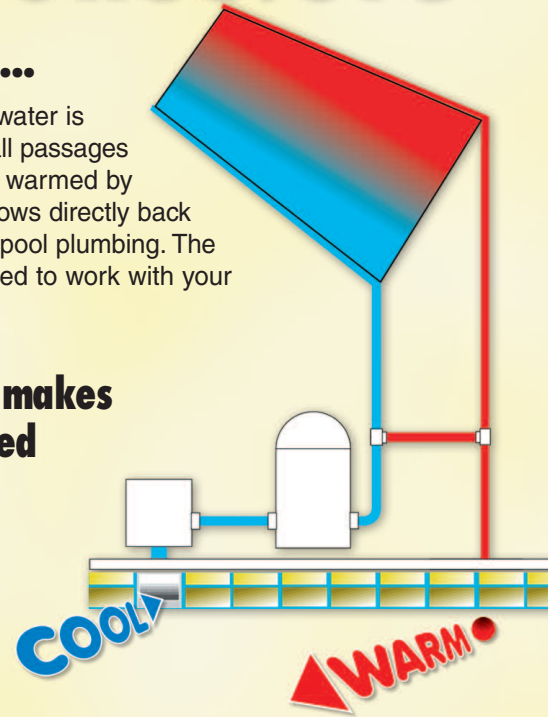
## Simply Wonderful...

Owning a swimming pool means poolside parties... early morning workouts... refreshing dips... family fun and romantic late night swims. Owning a Sun-Swim pool heater means more enjoyment more often. Join the hundreds of thousands of pool owners that have extended their swimming seasons with a solar pool heating system.

## 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. The Sun-Swim pool heater is designed to work with your existing pump and equipment.

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



## Built To Last...

Sun-Swim solar collectors have been designed from thirty years of experience in manufacturing of solar heating equipment. They have undergone extensive testing resulting in performance certification by accredited independent laboratories and approval agencies. Performance rated at 1,000 BTU's per square foot by the Florida Solar Energy Center.

## Ten Year Limited Warranty

For more than 30 years, Aquatherm has honored every warranty on every collector ever made. Sun-Swim collectors lead the way in value backed by a Ten Year Limited Warranty with five full years of protection.



## Sun-Swim Plus

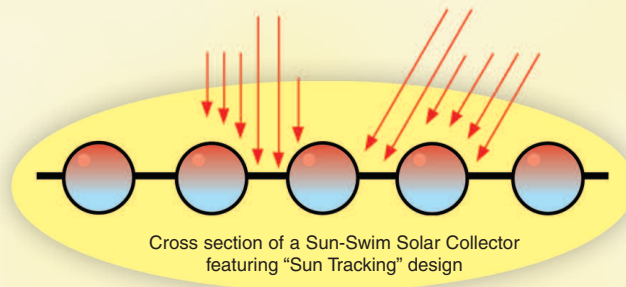
For added piece of mind, Sun-Swim Plus collectors carry a Full Ten Year Warranty. You can relax with both Sun-Swim and Sun-Swim Plus knowing that you own the "Best Backed" system in the world.



## CERTIFICATIONS, APPROVALS & TESTING

The Sun-Swim and Sun-Swim Plus solar pool heating systems meet or exceed the criteria for approvals from the following accredited independent laboratories and approval agencies:

- International Association of Plumbing and Mechanical Officials (IAPMO)
- Florida Solar Energy Center
- Dade County
- City of Los Angeles
- Solar Rating and Certification Corp. (SRCC)
- DSET Exposure Test, New River, Arizona



## PROVEN PERFORMANCE IN ALL CLIMATES

Engineered "tube and web" construction relieves the thermal stress of expansion and contraction assuring years of trouble free operation.

**Available in 1 1/2" low profile design or 2" for larger or commercial installations**

### DIMENSIONS

	1 1/2"		
Nominal Size-ft. ....	4 x 12	4 x 10	4 x 8
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-ft² ....	47.3	39.3	31.4
Net Collector Area-ft² ....	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./ft² ....	1.01	1.06	1.12
Fluid Capacity-gal. ....	3.2	2.9	2.5

### FLUID FLOW RATES

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

### PRESSURES

Pressure Drop - .30 ft. head (.13PSI) pressure loss @ recommended flow rate. .20 ft. head (.09PSI) pressure loss @ minimum flow rate.  
 Max. Fluid Pressure ..... Greater than 85 PSI @ 80°F  
 Recommended Max. Operating Pressure ..... .35 PSI @ 140°F

Specifications subject to change without notice.

### MATERIALS

Absorber Plate - Propylene copolymer with synergistic antioxidants and UV screen including carbon black.  
 Mounting Brackets - Glass reinforced polypropylene.  
 Hold-Down Straps - High tensile woven polyester.  
 Connecting Hoses - EPDM.  
 Clamps - Type 302/304 stainless steel; all welded construction.  
 (Optional all-stainless steel mounting hardware also available)

## THERMAL PERFORMANCE RATINGS

Thermal Performance Equation -  $n = 85.8 - 3.42$   
 Incident Angle Modifier -  $K_{qr} = 1.0 - 0.03$   
 (Rated in accordance with ASHRAE standard 96-80)

Florida Solar Energy Center Certification  
 (BTU's per standard day)  
 4 x 12 - 47,200 / 4 x 10 - 39,300 / 4 x 8 - 31,500



Available Through: