

ELM Solar Collectors

Simply Wonderful...

Owning a swimming pool means poolside parties... early morning workouts... refreshing dips... family fun and romantic late night swims. Owning an ELM 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.



Built To Last...

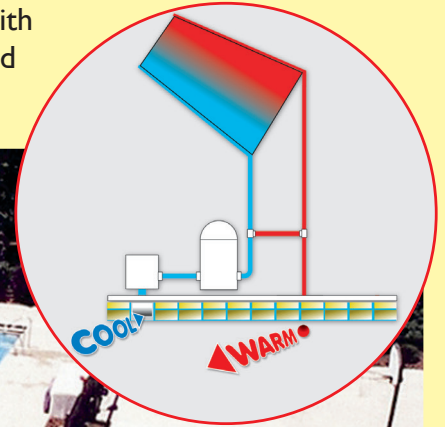
ELM solar collectors have been designed from nearly forty years of experience in manufacturing of solar heating equipment. They have undergone extensive testing resulting in performance certification by accredited independent laboratories and approval agencies. Performance rated at 1,100 BTU's per square foot by the Florida Solar Energy Center.

Ten Year Warranty

ELM collectors lead the way in value backed by a full Ten Year Warranty. You can relax with ELM, knowing that you own the "Best Backed" system in the world.

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 ELM pool heater is designed to work with your existing pump and equipment.



ELM Quality and Reliability makes it the Pool Professional's Preferred Solar Pool Heating System.



www.elmdistribution.com
1 (866) 765-2713

CERTIFICATIONS, APPROVALS & TESTING

The ELM and ELM 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
- City of Los Angeles
- NSF-50
- ISO 9806 Standard

MATERIALS

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

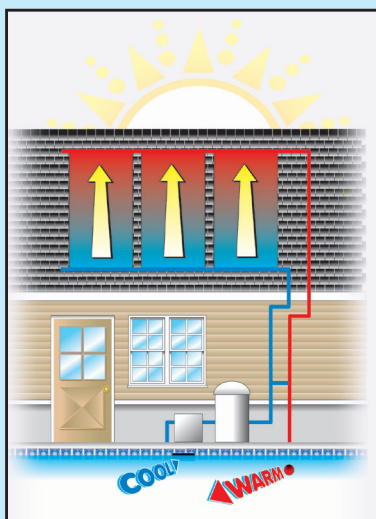
Available in 1 1/2" or 2" low profile design

DIMENSIONS	1-1/2"			2"		
	4 x 12	4 x 10	4 x 8	4 x 12	4 x 10	4 x 8
Nominal Size-fit	4 x 12	4 x 10	4 x 8	4 x 12	4 x 10	4 x 8
Overall Collector Length-in	144.0	120.0	96.0	144.0	120.0	96.0
Collector Width-in	47.0	47.0	47.0	47.0	47.0	47.0
Manifold Length-in	50.5	50.5	50.5	50.5	50.5	50.5
Manifold O.D.-in	1.9	1.9	1.9	2.4	2.4	2.4
Manifold I.D.-in	1.5	1.5	1.5	2.0	2.0	2.0
Gross Collector Area-ft ²	47.3	39.3	31.4	47.3	39.3	31.4
Net Collector Area-ft ²	47.3	39.3	31.4	47.3	39.3	31.4
WEIGHTS						
Dry-lbs.	21.3	17.1	14.3	22.30	18.1	15.3
Wet-lbs.	48.0	41.6	35.1	54.00	47.6	41.1
Wet-lbs./ft ²	1.01	1.06	1.12	1.14	1.20	1.31
Fluid Capacity-gal	3.2	2.9	2.5	3.80	3.5	3.1
FLUID FLOW RATES						
Maximum-GPM	10.0	10.0	10.0	10.0	10.0	10.0
Minimum-GPM	3.0	2.5	2.5	3.00	2.5	2.5
Recommended-GPM	5.0	4.0	3.3	5.00	4.0	3.3
Max. Collectors with Single Feed @ Recommended Flow Rate	10	12	12	12	14	14

PRESSURES

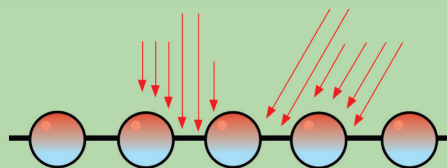
Pressure Drop - 0.05 @ 2.5 GPM; 0.20 @ 5.0 GPM; 0.60 @ 10.0 GPM
 Recommended Max. Operating Pressure - 50 PSI @ 77°F
 Maximum Operating Pressure - 75 PSI @ 77°F; 35 PSI @ 140°F
 Design Burst Pressure - Greater than 100 PSI @ 140°F

Specifications subject to change without notice.



www.elmdistribution.com
 1 (866) 765-2713

PROVEN PERFORMANCE IN ALL CLIMATES



Cross section of a Elm Solar Collector, featuring "Sun Tracking" Design.

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

THERMAL PERFORMANCE RATINGS

Thermal Performance Equation:
 $n = 0.9248 - 0.0512(u) - (4.76 + 1.998u)$

Florida Solar Energy Center Certification (BTU's per standard day)
 4 x 12 - 51,920 / 4 x 10 - 43,230 / 4 x 8 - 34,650

Tested and Certified in accordance with ISO 9806 Manufactured in Compliance with SRCC Standard 100-2012

Available through: