

Enjoy your own solar heated pool!

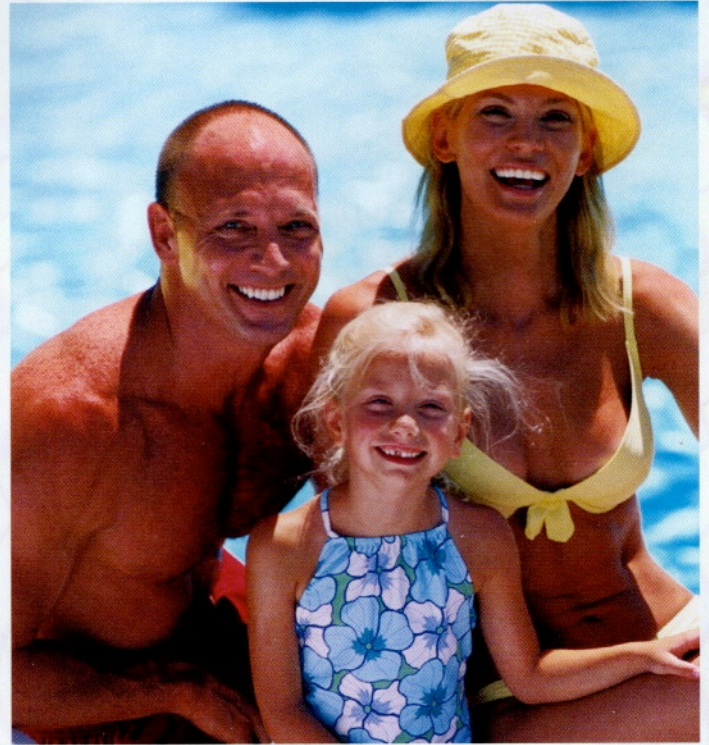
eco-therm

Solar Pool Heating Systems

Simply Wonderful

Do you remember why you wanted a pool in the first place? **Poolside parties, early morning workouts, family fun, romantic late-night swims... that's what it's all about!**

Heating your pool with an Eco-therm 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.

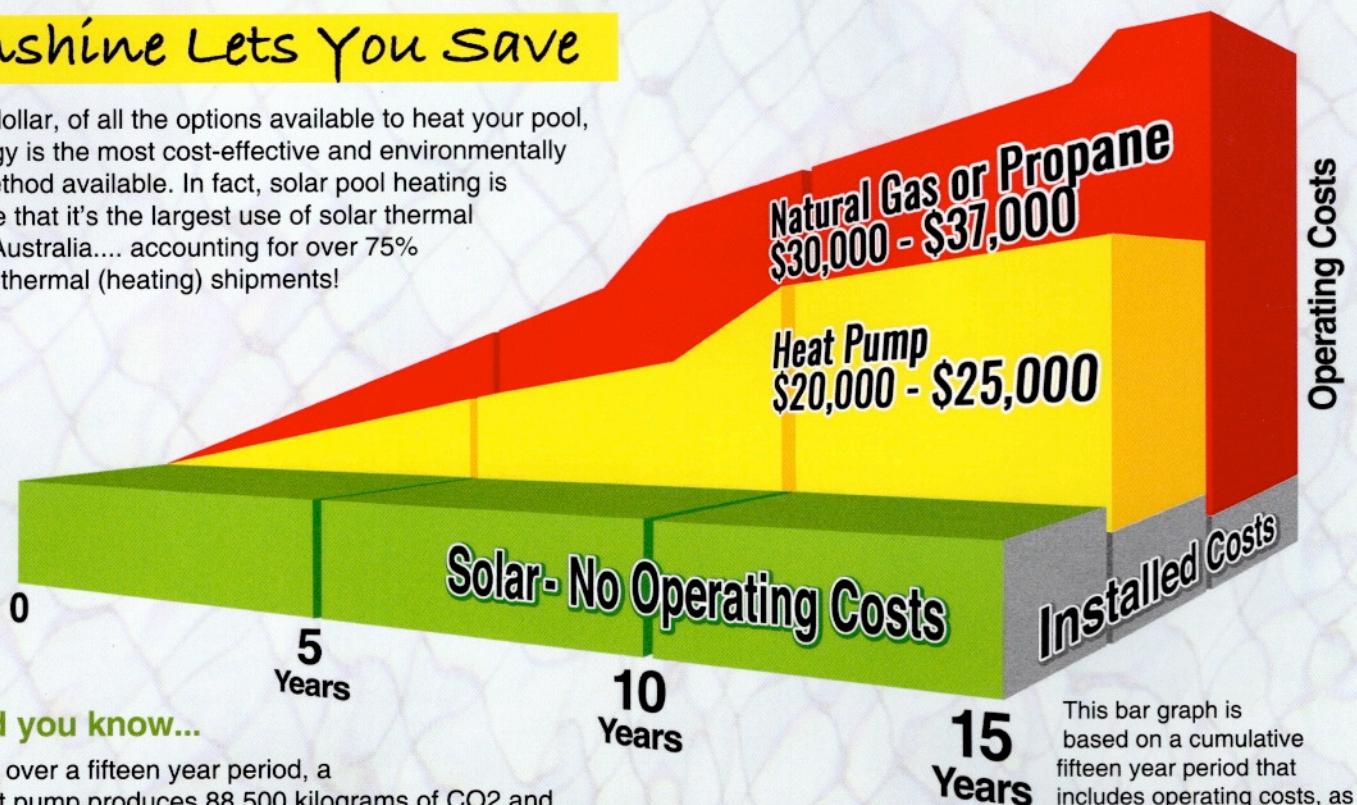


"Since installing your system, we have thoroughly enjoyed the pool more and more. We've had numerous gatherings and get rave reviews. We love it!"
-Bryan D., Sydney, NSW

Eco-therm 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 Australia.... accounting for over 75% of all solar thermal (heating) shipments!



Did you know...

that over a fifteen year period, a heat pump produces 88,500 kilograms of CO₂ and a natural gas heater produces 164,000 kilograms of CO₂. Solar produces zero harmful emissions to the environment.

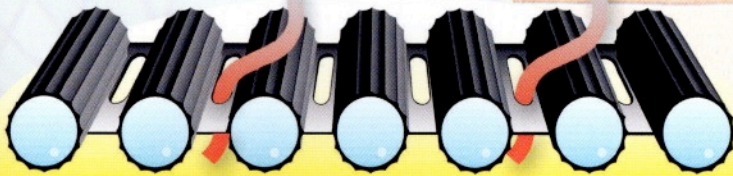
**15
Years**

This bar graph is based on a cumulative fifteen year period that includes operating costs, as well as replacing a heat pump once and gas pool heater twice.

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Stress-Free Warranty

The only solar pool heating panel specifically designed for the Australian, New Zealand and Pacific markets. It is manufactured by the largest and most reputable heating company in the USA which gives peace of mind to the strongest warranty in the business. You can relax with the knowledge that you own the "Best Backed" system available in the Australasia.



Eco-therm collector cross section

Strategically placed slots in the webbing of Eco-therm 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 Eco-therm System to still be working long after the storm has passed.

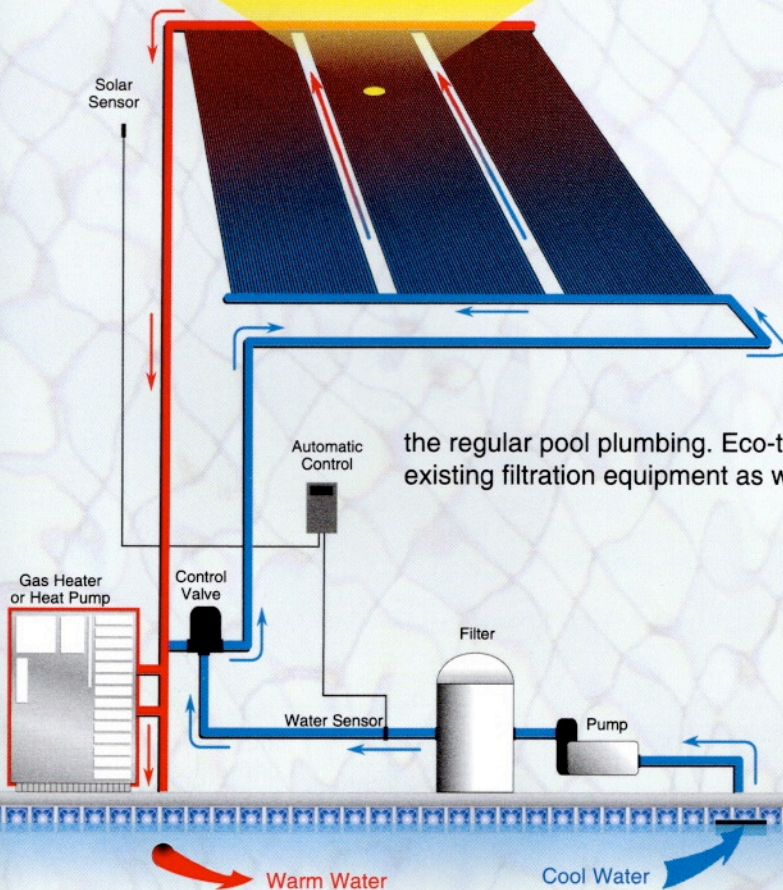
This combination of features is unique to Eco-therm and blends all the strength and performance of a full plate collector with the benefits of wind protection and moisture ventilation for your roof.

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. Eco-therm 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 Eco-therm 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.



Commercial Grade... Built to Last!



NSF-50 Approved for Durability, Safety, and Toxicity

Eco-therm is available in standard 40mm as well as 50mm manifold designs to accommodate high-flow, high-efficiency pool filtration systems. The National Sanitation Foundation has listed Eco-therm as an approved product for use in recreational commercial aquatic equipment (NSF-50).

DIMENSIONS

	40mm Series			50mm Series		
Model Number	16104-12	16104-10	16104-8	16204-12	16204-10	16204-8
Nominal Size - m	1.2 x 3.7	1.2 x 3.1	1.2 x 2.4	1.2 x 3.7	1.2 x 3.1	1.2 x 2.4
Overall Collector Length-in	3.7	3.0	2.4	3.7	3.1	2.4
Collector Width - m	1.2	1.2	1.2	1.2	1.2	1.2
Manifold Length - cm	128.3	128.3	128.3	128.3	128.3	128.3
Manifold O.D. - mm	48.3	48.3	48.3	61.0	61.0	61.0
Manifold I.D. - mm	38.1	38.1	38.1	50.8	50.8	50.8
Gross Collector Area - m ²	4.4	3.7	2.9	4.4	3.7	2.9
Net Collector Area - m ²	4.4	3.7	2.9	4.4	3.7	2.9

WEIGHTS

Dry - Kg	9.7	7.8	6.5	10.1	8.2	6.9
Wet - Kg	21.8	18.9	15.9	24.5	21.6	18.6
Wet Kg - m ²	4.9	4.9	5.4	5.4	5.9	6.3
Fluid Capacity - L	12.1	11	9.5	14.4	13.2	11.7

FLUID FLOW RATES

Model Number	16104-12	16104-10	16104-8	16204-12	16204-10	16204-8
Maximum - LPM	37.9	37.9	37.9	37.9	37.9	37.9
Minimum - LPM	11.4	9.5	9.5	11.4	9.5	9.5
Standard - LPM	18.9	15.1	12.3	18.9	15.1	12.3
Max. Collector with Single Feed @ Recommended Flow Rate	10	12	12	10	14	14

(Made to Order)

PRESSURES

Pressure Drop (kPa @ LPM): 0.34 @ 9.5; 1.4 @ 18.9; 4.1 @ 37.9
 Recommended Max Operating Pressur: 344.7 kPa @ 25o C

Max. Operating Pressure: 517.1 kPa @ 25oCF; 241.3 kPa @ 60o C
 Design Burst Pressure: Greater than 689 kPa @ 60o C

CERTIFICATIONS & APPROVALS

Eco-therm 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. Eco-therm collectors are performance rated at 1,100 BTU's per square foot by the Florida Solar Energy Center.

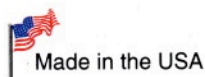


Florida Solar Energy Center Certified Ratings
 (BTU's per standard day at 26.6°C air / 30°C inlet)
 4x12 = 51,744 / 4x10 = 43,120 / 4x8 = 34,496

Efficiency Equation $n = 0.935 - 8.930(P/G) - 0.647(P2/G)$
 Incident Angle Modifier-Kqr = 1.0 - 0.13
 (Tested in accordance with ISO 9806)

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Available through:



TECHNICAL DATA