



The Heliocol Advantage



THE FEATURE

Patented individual tube design

Patented mounting hardware

One-piece overmolded construction

Hurricane resistant

Low collector-head loss rate

THE ADVANTAGE

Allows expansion and contraction, eliminating cracks and leaks. Lets roof breathe, keeping it clean and dry.

Eliminates hoses, clamps and straps. No gaps between panels for smoother look; less than half the number of roof penetrations.

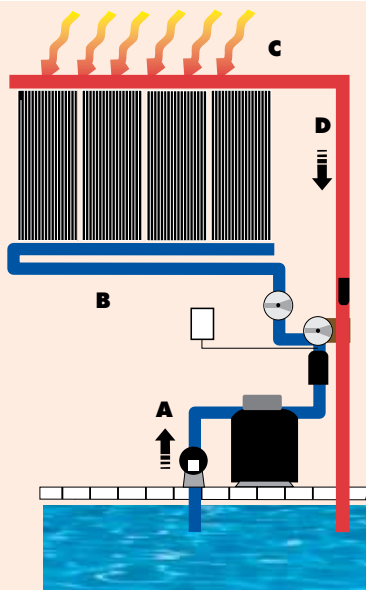
Eliminates welds and weld leaks.

Can withstand hurricane-force winds; Heliocol panels are approved by most property and casualty insurance carriers.

Reduces pump requirements.

Using the power of the sun to heat your pool

- A.** Using your existing pool pump, pool water is directed through a series of valves to your solar collectors.
- B.** Pool water enters the solar collectors at the bottom and rises to the top through the individual tubes of the collector.
- C.** As the water rises through the collector it is heated by the sun's radiant energy.
- D.** The water is then returned to the pool to repeat the cycle until your pool has been warmed by the sun.



Certification Data

- ISO 9001:2008 and ISO 14001:2004
- Ortech International Laboratories
- Solar Rating & Certification Corporation (SRCC)
- Solar Energy Analysis Laboratory (SEAL)
- DSET Laboratories, Inc.
- HRS, Florida (Required for commercial use)
- Florida Solar Energy Center (FSEC)
- City of Los Angeles #RR-4508
- British National Water Council (for potability)
- German Federal Health Board
- NSF 50 for Recreational Water Facilities



Enjoy Year-Round Leisure Living.

WHAT ISO CERTIFICATION MEANS TO YOU

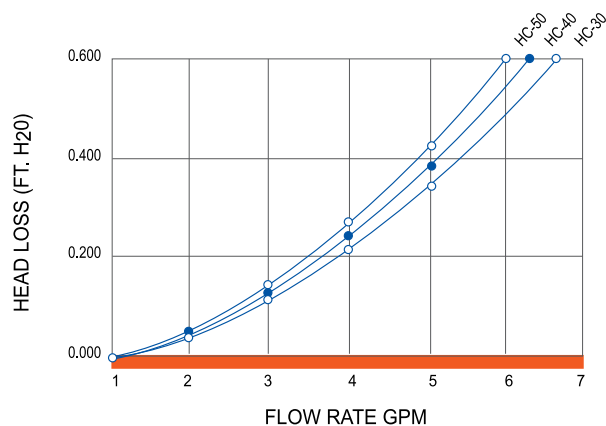
Established in 1947, the International Organization for Standardization (ISO) is a worldwide federation of national standards bodies representing over 130 countries. ISO 9001- 2008 Certification is a standard granted only to companies performing at the highest levels in their industries. Heliocol is the first solar pool manufacturer in the world to achieve ISO 9001- 2008 Certification. This certification process took years of measuring Heliocol's customer service, low product failure rate, engineering and general business management.

PERFORMANCE RATING

Certifying Organization	BTUs PER DAY			Performance Equations
	HC-50	HC-40	HC-30	
Int'l Standard ORTECH	47,400	39,400	28,440	$.872 - 3.729 (T_i - T_A) / I$ $K_A X = 1.00 - .0316(S) - .0104(S)^2$
National Standard SRCC	47,400	39,400	28,440	$.872 - 3.729 (T_i - T_A) / I$ $K_A X = 1.00 - .0316(S) - .0104(S)^2$
Florida Standard	956 BTU's/ft ²	956 BTU's/ft ²	956 BTU's/ft ²	$.828 - 3.26 (T_i - T_A) / I$ $K_A X = 1.00 - .11(S)$

Performance Note: Solar scientists agree that there are many variables to consider when properly sizing a system. Wind condition, micro climates, flow rates, orientation and shading of the pool and/or collectors all affect the performance of your system. A BTU rating is just one of the many factors to consider.

HEAD LOSS PER FLOW RATE



HELIOCOL HC-50

Collector Rating Number
Thousands of BTU's per day per panel

Category T(°F)	Solar Insolation		
	2,000 BTU/ft ²	1,500 BTU/ft ²	1,000 BTU/ft ²
Water Temp. Minus Air Temp			
A (-9)	98.74	78.07	57.49
B (+9)	64.13	44.01	23.96
C (+36)	22.91	7.64	0
D (+90)	0	0	0
E (+144)	0	0	0

COLLECTOR DATA

Collector Model	HC-50	HC-40	HC-30	HC-12.5	HC-10
Size, Nominal	4' x 12.5'	4' x 10.5'	4' x 8'	1' x 12.5'	1' x 10.5'
Width	47" (120 cm)	47" (120 cm)	47" (120 cm)	11.75"	11.75"
Length	152.1" (380 cm)	127" (323 cm)	91" (231 cm)	151.5"	127"
Area (sq. ft)	50.0 (4.65 m ²)	41.6 (3.88 m ²)	30.0 (2.77 m ²)	12.2	10.2
Manifold Diameter	2" (5.08 cm)	2" (5.08 cm)	2" (5.08 cm)	2"	2"
Weight (dry)	22 lbs (10 kg)	19 lbs (8.5 kg)	15 lbs (6.8 kg)	5.5 lbs	4.75 lbs
Volume Capacity	3.7 gal (14 L)	3.1 gal (12 L)	2.4 gal (9 L)	.93 gal	.78 gal
Workin gPressure	90 psi	90 psi	90 psi	90 psi	90 psi
Burst Pressure	270 psi	270 psi	270 psi	270 psi	270 psi
Recommended Flow	5 gpm	4 gpm	3 gpm	1.25 gpm	1 gpm



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