

HELIOLC Unique Technical Features

- Patented Individual Tube Design allows for expansion and contraction, eliminating cracks and leaks.
- One piece "over-molded" construction eliminates welds.
- No moisture build-up under collectors.
- Innovative mounting hardware eliminates need for radiator hoses, metal clamps and multiple straps across collectors.
- Designed to withstand hurricane force winds.
- Low collector head loss rate reduces pump requirements.

Certification Data

- Ortech International Laboratories
- Solar Rating and Certification Corporation (SRCC)
- Solar Energy Analysis Laboratory (SEAL)
- DSET Laboratories, Inc.
- HRS, Florida (Required for Commercial Use)
- British National Water Council (for potability)
- German Federal Health Board
- Israeli Technical Institute
- Standard Installation Corporation of Israel IAPMO ISO 9002 Certification
- Dade County, Florida
- Miami Testing Laboratory (MTL)
- Florida Solar Energy Center (FSEC)
- City of Los Angeles

Collector Data

Collector Model	HC-50	HC-40	HC-30	HC-12.5	HC-10
Size, Nominal	4'x12.5'	4'x10.5'	4'x8'	1'x12.5'	1'x10.5'
Width	47" / 120cm	47" / 120cm	47" / 120cm	11.75"	11.75"
Length	152.1" / 380cm	127" / 323cm	91" / 231cm	151.5"	127"
Area (sq. ft.)	50.0 / 4.65m ²	41.6 / 3.88m ²	30.0 / 2.77m ²	12.2	10.2
Manifold Diameter	2" / 5.08cm	2" / 5.08cm	2" / 5.08cm	2"	2"
Weight, Dry	22lbs / 10kg	19lbs / 8.5kg	15lbs / 6.8kg	5.5lbs	4.75lbs
Volume Capacity	3.7gal / 14L	3.1gal / 12L	2.4gal / 9L	.93gal	.78gal
Working Pressure	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	4 GPM	1.25 GPM	1 GPM

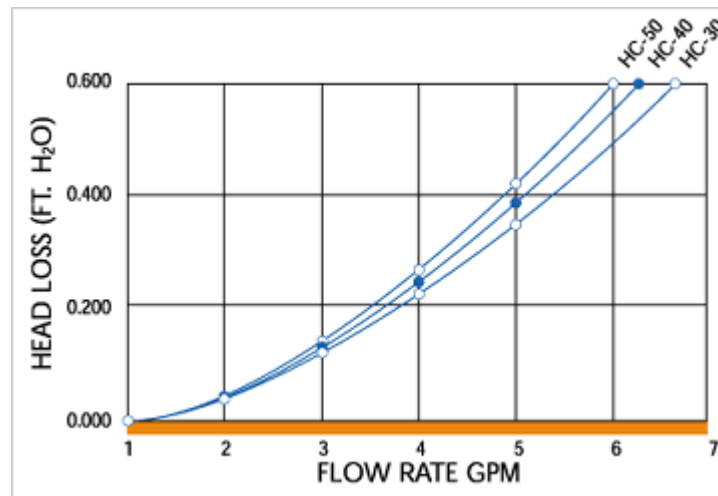
Performance Rating

Collector Size	Int'l Standard ORTECH	National SRCC	Florida Standard FSEC Data
HC-50 4'x12.5'	47,400	47,400	45,000
HC-40 4'x10.5'	39,400	39,400	37,440
HC-30 4'x8'	28,440	28,440	27,000
Performance Equations	$.872 - 3.729 (T_i - T_A) / I$ $KAX = 1.00 - .0316(S) - .0104(S)^2$		$.825 - 3.74 (T_i - T_A) / I$ $KAX = 1.00 - 0.4(S)$

Performance Note:

Solar Scientists agree that there are many variables to consider when properly sizing a system. Wind conditions, climates, flow rates, orientation and shading of the pool and/or collectors all effect the performance of your syst. BTU rating is just one of the many factors to condiers.

Head Loss Per Flow Rate



How Solar Pool Heating Works

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

