

Technical Corner

Heliocol Unique Features

Over-Molding Injection Technology

One of a kind injection process connects riser tubes to the manifold header, creating a single polymer panel with no leaks.

Individual Tube Design

Minimises wind effects on the panel and creates extreme mechanical stability.

Spacer Bars

Prevent warping of the panel over time, as well as prevents abrasion of the riser tubes due to thermal expansion of the panel.

Modular Structure

Enables fast and firm connection between panels, creating any size absorption area over any type of roof imaginable.

Cylindric Shape

All parts are rounded, with no sharp angles, in order to avoid stress concentration or the risk of bursting at high pressure.

Fins

Provide added strength to the unit while preventing differential thermal expansion and distortion of the system.

Specially Formulated Polymer Material

As tested in authorised laboratories, a unique polymer formula stabilises against sustained ultraviolet radiation, extreme weather and aging.

Alligator Clamp

Firmly mounts the panel to any roof type with minimum roof penetration.

Parts & Fittings

All-Polymer parts, creating simple connection between panels and standard plumbing pipes.



COLLECTORS TYPE		HC-50	HC-40	HC-38	HC-30	HC-15
Length	m	3.85	3.23	2.92	2.31	1.38
Width	m	1.2	1.2	1.2	1.2	1.2
Area	m ²	4.62	3.85	3.52	2.77	1.65
Weight "Dry"	Kg.	10	8.5	8.2	6.8	3.8
Volume Capacity	Lit.	14.4	12.6	11.4	9.7	7.1
Weight "Wet"	Kg.	24	21	19.6	16.5	10.9
Rec. Flow Rate	Lit./min	20	15	15	12	7



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.

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	$.872 - 3.729 (Ti-TA) / I$ $K_{\lambda}X = 1.00 - .0316(S) - .0104(S)^2$
National Standard SRCC	47,400	39,400	28,440	$.872 - 3.729 (Ti-TA) / I$ $K_{\lambda}X = 1.00 - .0316(S) - .0104(S)^2$
Florida Standard	956 BTU's/ft ²	956 BTU's/ft ²	956 BTU's/ft ²	$.828 - 3.26 (Ti-TA) / I$ $K_{\lambda}X = 1.00 - .11(S)$

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.