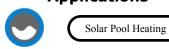


SOLAR COLLECTOR SPECIFICATION SHEET

Applications





Thermal Performance Ratings

BTU/ft²*Day										
Category (Ti-Ta) Ti- inlet fluid temp Ta=ambient temp	Clear (2000)	Mildly Cloudy (1500)	Cloudy (1000)							
A(-9°F)	1500	1200	800							
B(9°F)	900	600	300							

A-Pool Heating (Warm Climate) B-Pool Heating. Thermal performance is obtained by multiplying the collector output for the appropriate application and insolation level by the total gross collector area. Derived from International Association of Plumbing and Mechanical Officials (IAPMO) S100.4 testing.

Materials

Collector Material: Roll formed Copper

Max. Instantaneous Efficiency: 67%

Header Size: 1¹/₂"Nominal Copper (1.65" OD)

Riser Size ¹/₂" Nominal Copper

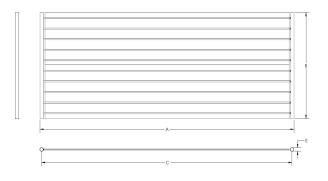
Collector Coating: **Design Limits**

Internal Static Test Pressure:160psigMax Flow Rate:25gpmMax Wind/Snow:60 psfMax Temperature:100°F

Available Connections

- 1¹/₂" Sweat (Standard)
- High Temperature Hose

Dimensions



F = Fluid Capacity (gal.) G = Gross Area (ft²) W = Dry Weight (lbs) DFR = Design Flow Rate (GPM) ΔP = Pressure Drop @ Design Flow Rate (psig)

Flat Black Polyurethane

MODEL	A(in)	B(in)	C (in)	E(in)	F	G	W	DFR	ΔΡ
OP-48	144.00	45.63	142.375	1.625	1.63	45.63	48.27	4.8	0.022
OP-40	120.00	45.63	118.375	1.625	1.47	38.02	40.22	4.0	0.020
OP-32	96.00	45.63	94.375	1.625	1.31	30.47	32.21	3.2	0.018

Due to SunEarth's policy of continuous product improvement, specifications are subject to change without notice.







SOLAR COLLECTOR SPECIFICATION SHEET

ENGINEERING SPECIFICATIONS

GENERAL:

The following shall be the specifications for the pool/spa heating collectors. Collectors shall be SunEarth Oasis Model and shall be of the unglazed liquid flat plate type. Collectors shall be tested in conformance with ISO 9806:2013 and listed by the International Association of Plumbing and Mechanical Officials (IAPMO).

ABSORBER PLATE AND PIPING:

The absorber shall consist of a roll-formed copper plate of no less than .008 inch thickness. Risers shall be a minimum of 0.5 inch O.D. Type M Copper tubing on no more than 4.7" centers continuously soldered to the plate utilizing a non-corrosive solder paste with a melting point of 460°F. The risers shall be brazed to 1.625"O.D. Type M copper manifolds utilizing a copper phosphorous brazing allow with no less than 5% silver content, and conforming to the American Welding Society's BCuP-3 classification. The absorber plate shall be designed for 160 psig maximum operating pressure.

ABSORBER COATING AND PERFORMANCE CURVE:

The absorber coating shall be flat black paint. The instantaneous efficiency of the collector shall be a minimum Y-intercept of 0.68 and a slope of no less than -19.29 BTU/ft².hr. °F.

