



Sun-In-One™
New Electrical Solar Light and Power Products



SPECIFICATIONS

SIZE	4'X10'
LENGTH	120"
WIDTH	47.2"
DEPTH	3.9"
WEIGHT	137 lbs
GROSS FRONT AREA	39.4 sf
APERTURE	36.7 sf
VOLUMETRIC FLUID CAPACITY	1.2 gl
OPTIONAL TANK SIZE	75 gl
ENCLOSURE MATERIAL	Black Anodized Aluminum
INSULATION	1" Polyisocyanurate, 1" Glass Wood, and Radiant Barrier
GASKETS	EPDM Rubber
GLASS TRANSMITTANCE	91.6%
ABSORBER COATING	Vapor Deposition Selective Coating
ABSORPTIVITY	95%
EMISSIVITY	5%
ABSORBER TYPE	Harp Style
ABSORBER MATERIAL	Copper Waterway, Aluminum Fin
NUMBER OF FLOW TUBES	11
FLOW PATTERN	Parrallel
RISER TUBE	1/2" Outside Diameter
HEADER TUBE	1 1/8" Outside Diameter
RISER SPACING	3.89"
RECOMMENDED FLOW RATE	0.8 – 4.5 gpm
PRESSURE RATING	160 psi
RECOMMENDED FLUID	Water or Water/Glycol
WARRANTY	10 Years

Solar Flat Plate Collector: Complete Solar Hot Water Heater Kit



The SIO-Bellfonte is a high-performance, high-efficiency solar plate collector. Used to produce domestic hot water in space heating systems. Available in various sizes. Ideal for both residential and commercial applications.

FEATURES / BENEFITS

- Compliant with BAA and ARRA requirements  
- SRCC Certified OG-100
Qualifies for Federal, State, Local Rebates & Tax Credits
- Ultrasonically Welded Aluminum Fins:
Reliable, long-lasting, durable collector withstands thermal stress and all weather conditions
- Blue Sputtered Absorber Coating:
Highest absorption rate and lowest emissions, ensuring highest performance and efficiency
- Polyurethane Insulation:
High quality, efficient, durable insulation allows best heat retention ensuring reliable and efficient heat production

ORDERING INFORMATION FOR SOLAR FLAT PLATE COLLECTOR KIT

SIO-BELLFONTE-00 (WITHOUT TANK)
SIO-BELLFONTE-01 (WITH TANK)



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suninone.com
302-762-3100





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Solar Flat Plate Collector, continued

COMPLETE KIT – WITH TANK

- 75-Gallon Tank
- Pumping Station and Glycol Pkg including Pumps, HE, Controller, Mounting Bracket, Sensors (2), 50' Sensor Wire
- Expansion Tank (4.4 Gal) Extrol SE-30
- Connection Hose for Expansion Tank (Stainless Steel 3/4" MxF 18")
- Mounting Bracket for Expansion Tank (Stainless Steel)
- Thermal Grease (14 oz)
- Adapter 3/4" MPT to 1/2" FPT Brass Reducer
- Extra Glass Tubes included (2)

COMPLETE KIT – WITHOUT TANK

- Pumping Station and Glycol Pkg including Pumps, HE, Controller, Mounting Bracket, Sensors (2), 50' Sensor Wire
- Expansion Tank (4.4 Gal) Extrol SE-30
- Connection Hose for Expansion Tank (Stainless Steel 3/4" MxF 18")
- Mounting Bracket for Expansion Tank (Stainless Steel)
- Thermal Grease (14 oz)
- Adapter 3/4" MPT to 1/2" FPT Brass Reducer
- Extra Glass Tubes included (2)

BTU PER PANEL PER DAY — 4' x 10'

CATEGORY (Ti-Ta)	CLEAR DAY 2000 BTU/FT2/DAY	MILDLY CLOUDY 1500 BTU/FT2/DAY	CLOUDY DAY 1000 BTU/FT2/DAY
A (9F)	56,400	42,700	29,000
B (9F)	51,500	37,500	23,800
C (36F)	43,300	29,900	16,600
D (90F)	28,500	16,100	4,800
F (144F)	15,200	5,000	0

- (Ti) Temperature Inlet: Refers to temperature of fluid entering manifold.
 (Ta) Temperature Ambient: Refers to the ambient temperature, or the outside air temperature.
 (Ti-Ta) Refers to the inlet fluid temperature subtracted from the outside ambient temperature. For example, if the temperature entering the manifold is 100F, and the outside air temperature is 30F, the Ti-Ta would be 70F.
- (A) Pool Heating (Warm Climate)
 (B) Pool Heating (Cool Climate)
 (C) Water Heating (Warm Climate)
 (D) Water Heating (Cool Climate)
 (F) Air Conditioning



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