



and Radiant Barrier GASKETS EPDM Rubber GLASS TRANSMITTANCE 91.6%	SPECIFICATIONS		
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			
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	SIZE		
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	LENGTH	.=-	
WEIGHT GROSS FRONT AREA APERTURE 36.7 sf VOLUMETRIC FLUID CAPACITY OPTIONAL TANK SIZE ENCLOSURE MATERIAL INSULATION I" Polyisocyanurate, 1" Glass Wood and Radiant Barrier GASKETS GLASS TRANSMITTANCE ABSORBER COATING ABSORPTIVITY EMISSIVITY ABSORBER TYPE ABSORBER MATERIAL NUMBER OF FLOW TUBES FLOW PATTERN RISER TUBE 1/2" Outside Diameter	WIDTH	47.2"	
GROSS FRONT AREA APERTURE 36.7 sf VOLUMETRIC FLUID CAPACITY 1.2 gl OPTIONAL TANK SIZE ENCLOSURE MATERIAL 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 ABSORBER TYPE Harp Style ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	DEPTH	3.9"	
APERTURE 36.7 sf VOLUMETRIC FLUID CAPACITY 1.2 gl OPTIONAL TANK SIZE FNCLOSURE MATERIAL INSULATION I" Polyisocyanurate, 1" Glass Wood and Radiant Barrier GASKETS EPDM Rubber GLASS TRANSMITTANCE 91.6% ABSORBER COATING ABSORPTIVITY 95% EMISSIVITY ABSORBER TYPE ABSORBER TYPE ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	WEIGHT	137 lbs	
VOLUMETRIC FLUID CAPACITY 1.2 gl OPTIONAL TANK SIZE FNCLOSURE MATERIAL INSULATION I" Polyisocyanurate, 1" Glass Wood and Radiant Barrier GASKETS GASKETS EPDM Rubber GLASS TRANSMITTANCE ABSORBER COATING Vapor Deposition Selective Coating ABSORPTIVITY 95% EMISSIVITY ABSORBER TYPE Harp Style ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	GROSS FRONT AREA	39.4 sf	
OPTIONAL TANK SIZE 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 ABSORBER TYPE Harp Style ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	APERTURE	36.7 sf	
ENCLOSURE MATERIAL INSULATION 1" Polyisocyanurate, 1" Glass Wood and Radiant Barrier GASKETS GLASS TRANSMITTANCE ABSORBER COATING ABSORPTIVITY EMISSIVITY ABSORBER TYPE ABSORBER MATERIAL NUMBER OF FLOW TUBES FLOW PATTERN RISER TUBE Black Anodized Aluminum 1" Polyisocyanurate, 1" Glass Wood and Radiant Barrier Polyisocyanurate, 1" Glass Wood and Radiant Barrier 91.6% Vapor Deposition Selective Coating Vapor Deposition Selective Coating Polyisocyanurate, 1" Glass Wood and Radiant Barrier Papp Material Coating Parrallel RISER TUBE 1/2" Outside Diameter	VOLUMETRIC FLUID CAPACITY	1.2 gl	
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	OPTIONAL TANK SIZE	75 gl	
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	ENCLOSURE MATERIAL	Black Anodized Aluminum	
GASKETS GLASS TRANSMITTANCE 91.6% ABSORBER COATING ABSORPTIVITY 95% EMISSIVITY 5% ABSORBER TYPE ABSORBER MATERIAL NUMBER OF FLOW TUBES FLOW PATTERN RISER TUBE EPDM Rubber 91.6% Vapor Deposition Selective Coating Page 1.6% Page 1.6% Vapor Deposition Selective Coating Page 1.6% Page	INSULATION	1" Polyisocyanurate, 1" Glass Wood	
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		and Radiant Barrier	
ABSORBER COATING ABSORPTIVITY 95% EMISSIVITY 5% ABSORBER TYPE ABSORBER MATERIAL NUMBER OF FLOW TUBES FLOW PATTERN RISER TUBE Vapor Deposition Selective Coating 95% Emission Selective Coating 100% Emission Selective Coating 100% Emission Selective C	GASKETS	EPDM Rubber	
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	GLASS TRANSMITTANCE	91.6%	
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	ABSORBER COATING	Vapor Deposition Selective Coating	
ABSORBER TYPE ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	ABSORPTIVITY	95%	
ABSORBER MATERIAL Copper Waterway, Aluminum Fin NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	EMISSIVITY	5%	
NUMBER OF FLOW TUBES 11 FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	ABSORBER TYPE	Harp Style	
FLOW PATTERN Parrallel RISER TUBE 1/2" Outside Diameter	ABSORBER MATERIAL	Copper Waterway, Aluminum Fin	
RISER TUBE 1/2" Outside Diameter	NUMBER OF FLOW TUBES	11	
·	FLOW PATTERN	Parrallel	
HEADER TUBE 1 1/8" Outside Diameter	RISER TUBE	1/2" Outside Diameter	
	HEADER TUBE	1 1/8" Outside Diameter	
RISER SPACING 3.89"	RISER SPACING	3.89"	
RECOMMENDED FLOW RATE 0.8 – 4.5 gpm	RECOMMENDED FLOW RATE	0.8 – 4.5 gpm	
PRESSURE RATING 160 psi	PRESSURE RATING	160 psi	
RECOMMENDED FLUID Water or Water/Glycol	RECOMMENDED FLUID	Water or Water/Glycol	
WARRANTY 10 Years	WARRANTY	•	

ORDERING INFORMATION FOR SOLAR FLAT PLATE COLLECTOR KIT

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

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







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	

- Temperature Inlet: Refers to temperature of fluid entering manifold.
- Temperature Ambient: Refers to the ambient temperature, or the outside
- (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.
- Pool Heating (Warm Climate)
- Pool Heating (Cool Climate)
- (C) Water Heating (Waarm Climate)
- Water Heating (Col Climate) (D) Air Conditioning

