

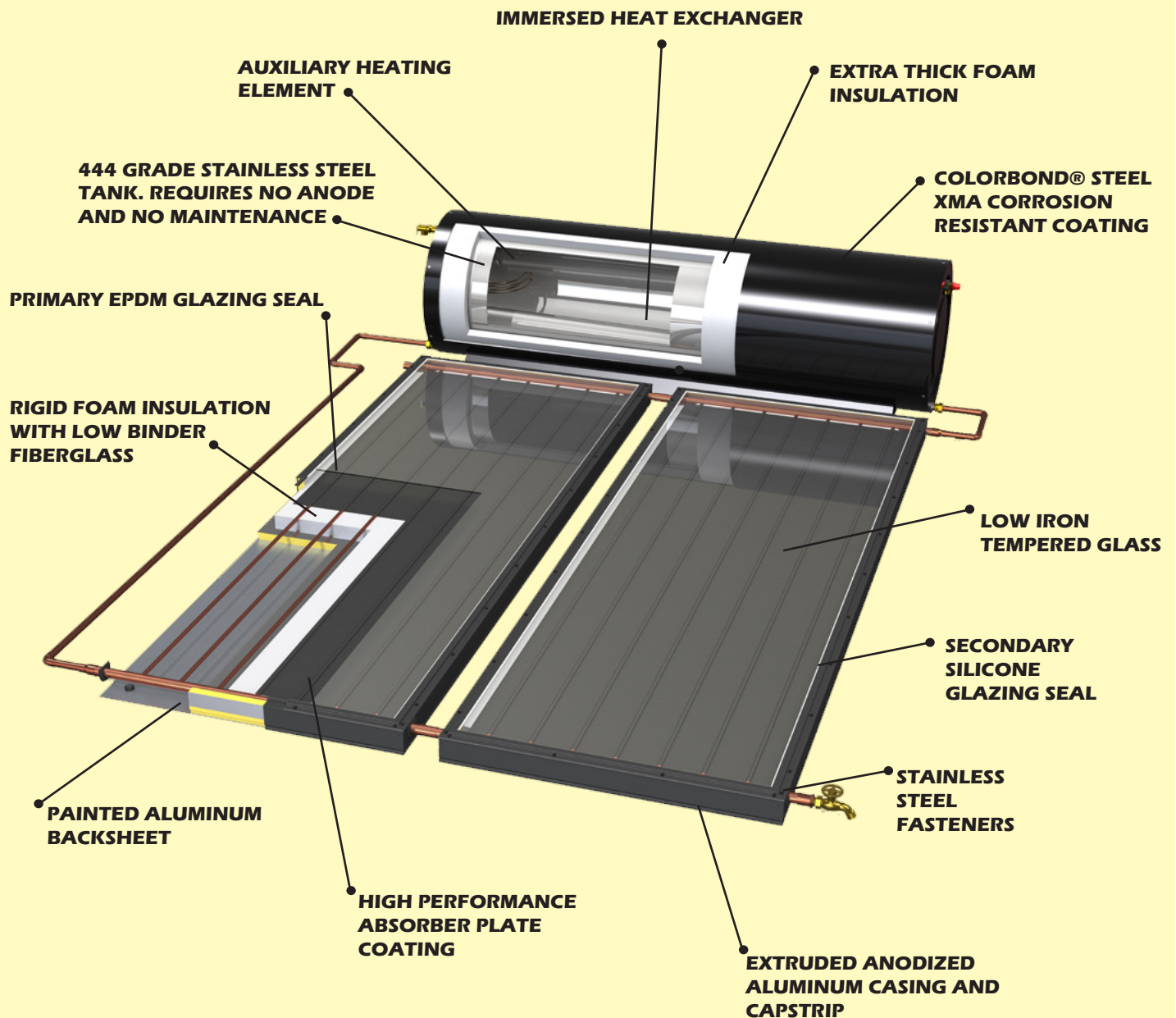


SUN EARTH INC.

SUN EARTH SUNSIPHON

PACKAGED THERMOSIPHON
SYSTEM
SPECIFICATION SHEET

THE PERFORMANCE LEADER IN THERMOSIPHON SOLAR TECHNOLOGY INDIRECT SERIES



PROTECTING OUR ENVIRONMENT—SINCE 1978

SunEarth INC. SUNSIPHON INDIRECT SERIES SPECIFICATIONS

TOTAL SYSTEM								CYLINDER					COLLECTOR						
MODEL No.	NO. OF COLLECTORS	OVERALL WIDTH IN INCHES	OVERALL LENGTH IN INCHES	OVERALL HEIGHT IN INCHES	TOTAL COLLECTOR AREA Sq. Ft.	MAXIMUM PRESSURE PSIG	TOTAL WET WEIGHT POUNDS	MODEL No.	CAPACITY GALLONS	DIAMETER IN INCHES	LENGTH IN INCHES	R _y WEIGHT - POUNDS	BOOSTER ELEMENT W/A	MODEL No.	WIDTH IN INCHES	LENGTH IN INCHES	HEIGHT IN INCHES	GROSS AREA Sq. Ft.	DRY WEIGHT - POUNDS
EPGX48-21	1	48	98	22	21.11	123	608	G48	48	22.5	48	132	2400	EP21	40	76	3 1/4	21.12	70
EPGX48-24	1	48	120	22	24.61	123	616	G48	48	22.5	48	132	2400	EP24	36 1/8	98 1/4	3 1/4	24.65	80
EPGX48-32	1	48	120	22	32.83	123	646	G48	48	22.5	48	132	2400	EP32	48 1/8	98 1/4	3 1/4	32.83	106
EPGX80-40	1	75	144	22	40.9	123	998	G80	80	22.5	75	185	4800	EP40	48 1/8	122 1/4	3 1/4	40.9	141
EPGX80-42	2	82	98	22	42.22	123	1003	G80	80	22.5	75	185	4800	EP21	40	76	3 1/4	21.11	70
EPGX80-48	2	75	120	22	49.23	123	1020	G80	80	22.5	75	185	4800	EP24	36 1/8	98 1/4	3 1/4	24.65	80
EPGX80-63	3	122	98	22	63.33	123	1079	G80	80	22.5	75	185	4800	EP21	40	76	3 1/4	21.11	70
EPGX80-64	2	98	120	22	65.66	123	1078	G80	80	22.5	75	185	4800	EP32	48 1/8	98 1/4	3 1/4	32.83	106

ENGINEERING SPECIFICATIONS

The solar water heating system shall be of the integral thermosiphon type, and shall operate on the principle of natural convection requiring no pumps, controls, or parasitic energy consumption for its normal operation. The solar water heating system shall be certified by the Solar Rating and Certification Corporation (SRCC) under standard OG-300. The primary system components shall be specified as follows:

SOLAR COLLECTORS:

The solar collectors shall be of the liquid flat plate type _____ square feet in gross dimension, with a dark bronze anodized aluminum frame wall, low-iron tempered glass, polyisocyanurate foam insulation covered with a barrier of low-binder fiberglass insulation, all-copper roll formed absorber plate, semi-selective absorber plate coating, EPDM gaskets and silicone seals, painted aluminum back sheet, all stainless steel fasteners, tested in accordance with ASHRAE 93-2003 and certified by the Solar Rating and Certification Corporation (SRCC). SunEarth Model _____. (See SunEarth Empire series collector specification sheets for rated collector performance)

STORAGE TANK

The SunSiphon storage tank shall be constructed of 0.06 inch grade 444L stainless steel and be fully welded, acid washed and passivated. The storage tank shall be capable of withstanding temperatures up to 212° F (100° C) without degradation and shall not require conventional anodic protection. The test pressure shall be 246 PSI and the maximum operating pressure shall be 123 PSI. The storage tank shall be completely insulated with rigid polyurethane foam providing a minimum thermal resistance of R-8, a maximum thermal resistance

of R-14 and an average thermal resistance of R-13. The storage tank shall be equipped with an auxiliary electric heating element and field adjustable thermostat, safety cutout switch, and latching solenoid. The storage tank shall hold _____ U.S. gallons. Unusually high temperatures generated by the solar collectors shall not require the thermostat to be manually reset or replaced.

IMMERSED HEAT EXCHANGER:

The Immersed heat exchanger shall be constructed of 0.075 inch grade 444 stainless steel and is designed to be located in the lower half of the storage tank where the cold potable water enters the storage tank and stratifies. The immersed heat exchanger shall have an integral expansion chamber to allow for the thermal expansion of the heat exchange fluid.

THE CASING:

The exterior casing shall be weatherproof and corrosion resistant. The casing shall be treated with an AZ150 class Zinalume substrate applied by the continuous hot-dip method, coated with a corrosion inhibitive high metal chromate primer, and a final oven-baked COLORBOND® STEEL XMA exterior coating. The exterior casing typically shall be dark bronze or black in color. The cylinder ends shall utilize a Pittsburg-type lock to prevent moisture from entering the casing.

THE SYSTEM:

The specified solar water heating system shall be the SunEarth SunSiphon model no. _____

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

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