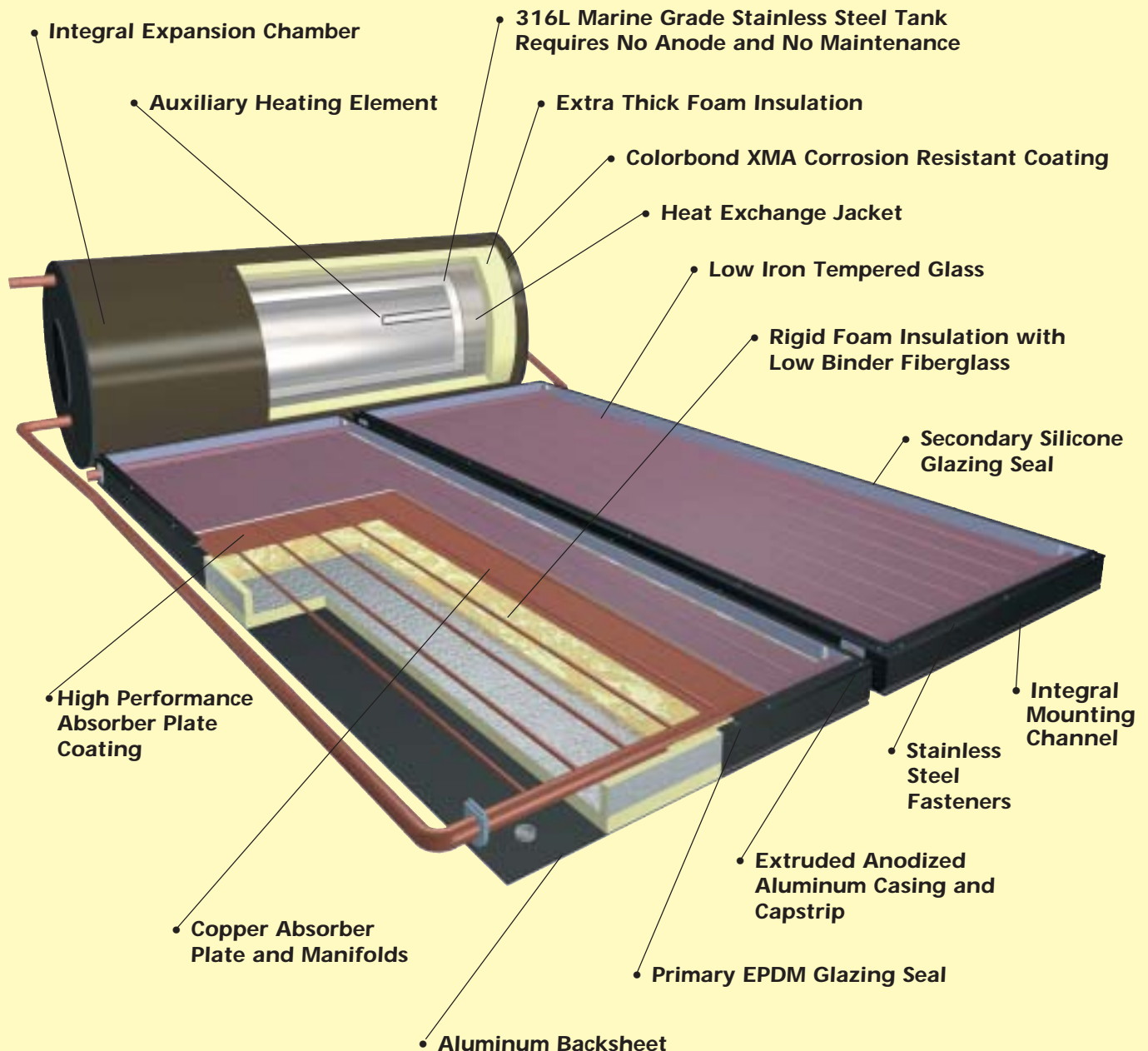




SUN EARTH INC.

THE **SUN SIPHON** SERIES
PACKAGED THERMOSIPHON SYSTEM
SPECIFICATION SHEET

THE PERFORMANCE LEADER IN THERMOSIPHON SOLAR TECHNOLOGY



PROTECTING OUR ENVIRONMENT—SINCE 1978

SunEARTH inc. SUNSIPHON 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 NET WEIGHT POUNDS	MODEL No.	CAPACITY GALLONS	DIAMETER IN INCHES	LENGTH IN INCHES	DRY WEIGHT - POUNDS	BOOSTER ELEMENT WA	MODEL No.	WIDTH IN INCHES	LENGTH IN INCHES	HEIGHT IN INCHES	GROSS AREA SQ. Ft.	DRY WEIGHT - POUNDS
EPGX48-21	1	48	98	22	21.12	150	575	G48	48	22	48	99	2,400	EP21	40	76	3 1/4	21.12	70
EPGX48-24	1	48	120	22	24.61	150	583	G48	48	22	48	99	2,400	EP24	36 1/8	98 1/4	3 1/4	24.61	80
EPGX48-32	1	48	120	22	32.79	150	613	G48	48	22	48	99	2,400	EP32	48 1/8	98 1/4	3 1/4	32.79	106
EPGX80-40	1	75	144	22	40.81	150	956	G80	80	22	75	143	4,800	EP40	48 1/8	122 1/4	3 1/4	40.81	141
EPGX80-42	2	82	98	22	42.24	150	961	G80	80	22	75	143	4,800	EP21	40	76	3 1/4	21.12	70
EPGX80-48	2	75	120	22	49.22	150	978	G80	80	22	75	143	4,800	EP24	36 1/8	98 1/4	3 1/4	24.61	80
EPGX80-63	3	122	98	22	63.36	150	1,037	G80	80	22	75	143	4,800	EP21	40	76	3 1/4	21.12	70
EPGX80-64	2	98	120	22	65.58	150	1,036	G80	80	22	75	143	4,800	EP32	48 1/8	98 1/4	3 1/4	32.79	106
EPGX116-63	3	123	98	22	63.36	150	1,403	G116	116	22	108	209	4,800	EP21	40	76	3 1/4	21.12	70
EPGX116-64	2	108	120	22	65.58	150	1,404	G116	116	22	108	209	4,800	EP32	48 1/8	98 1/4	3 1/4	32.79	106
EPGX116-80	2	108	144	22	74.66	150	1,495	G116	116	22	108	209	4800	EP40	48 1/8	122 1/4	3 1/4	40.81	141

SYSTEM OPTION * Imperial Series Collectors - substitute "I" for "E" in model number prefix.

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 framewall, 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 93-1986 and certified by the Solar Rating and Certification Corporation (SRCC). SunEarth Model _____. (See SunEarth Imperial and Empire series collector specification sheets for rated collector performance)

STORAGE TANK

The SunSiphon storage tank shall be constructed of 0.063 inch marine grade 316L stainless steel and be fully MIG 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 300 PSI and the maximum operating pressure shall be 150 PSI.

The storage tank shall be completely insulated with rigid polyurethane foam providing a minimum thermal resistance of R-8 at the bottom of the tank and R-20 at the top. The storage tank shall be equipped with an auxiliary electric heating element and field adjustable thermostat. The storage tank shall hold _____ U.S. gallons.

The heat exchange jacket shall be constructed of 0.047 inch marine grade 316L stainless steel and is designed to envelope and heat the lower half of the storage tank where the cold potable water enters the storage tank and stratifies. The heat exchange jacket shall have an integral expansion chamber to allow for the thermal expansion of the heat exchange fluid.

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 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, specifications are subject to change without notice.

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