

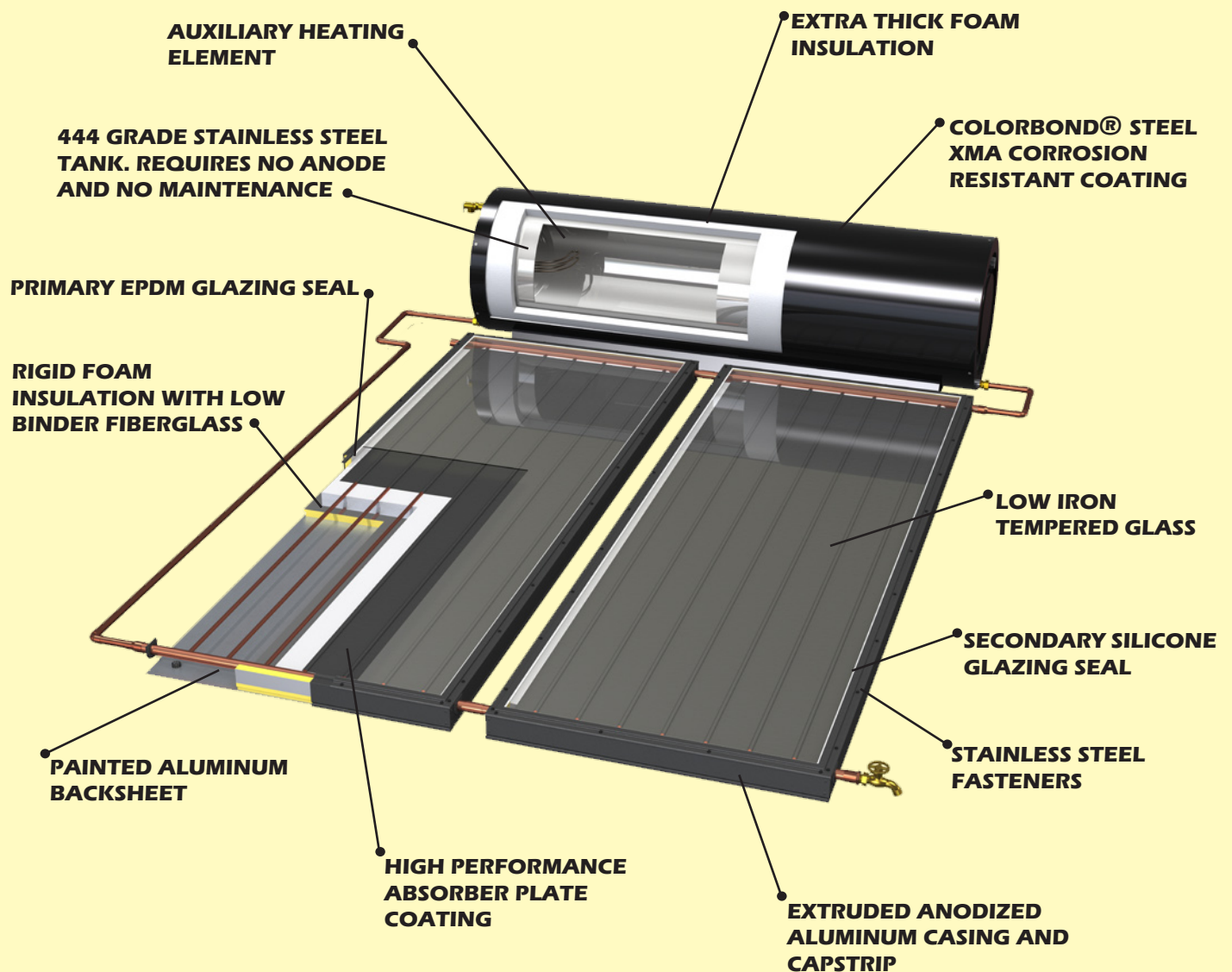


SUN EARTH INC.

SUN EARTH SUNSIPHON

PACKAGED THERMOSIPHON
SYSTEM
SPECIFICATION SHEET

THE PERFORMANCE LEADER IN THERMOSIPHON SOLAR TECHNOLOGY DIRECT SERIES



PROTECTING OUR ENVIRONMENT—SINCE 1978

SunEarth inc. SUNSIPHON DIRECT 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 | RY WEIGHT - POUNDS | BOOSTER ELEMENT WA | MODEL NO. | WIDTH IN INCHES | LENGTH IN INCHES | HEIGHT IN INCHES | GROSS AREA SQ. FT. | DRY WEIGHT - POUNDS |
| EPG48-21 | 1 | 48 | 98 | 22 | 21.1 | 123 | 562 | G48 | 48 | 22.5 | 48 | 115 | 2400 | EP21 | 40 | 76 | 3 ¹ / ₄ | 21.1 | 70 |
| EPG48-24 | 1 | 48 | 120 | 22 | 24.6 | 123 | 572 | G48 | 48 | 22.5 | 48 | 115 | 2400 | EP24 | 36 ¹ / ₈ | 98 ¹ / ₄ | 3 ¹ / ₄ | 24.6 | 80 |
| EPG80-40 | 1 | 75 | 144 | 22 | 40.9 | 123 | 941 | G80 | 80 | 22.5 | 75 | 174 | 4800 | EP40 | 48 ¹ / ₈ | 122 ¹ / ₄ | 3 ¹ / ₄ | 40.9 | 141 |
| EPG80-48 | 2 | 75 | 120 | 22 | 49.2 | 123 | 963 | G80 | 80 | 22.5 | 75 | 174 | 4800 | EP24 | 36 ¹ / ₈ | 98 ¹ / ₄ | 3 ¹ / ₄ | 24.6 | 80 |
| EPG80-64 | 2 | 98 | 120 | 22 | 65.6 | 123 | 1021 | G80 | 80 | 22.5 | 75 | 174 | 4800 | EP32 | 48 ¹ / ₈ | 98 ¹ / ₄ | 3 ¹ / ₄ | 32.8 | 106 |
| EPG116-64 | 2 | 108 | 120 | 22 | 65.6 | 123 | 1389 | G116 | 116 | 22.5 | 106 | 254 | 4800 | EP32 | 48 ¹ / ₈ | 98 ¹ / ₄ | 3 ¹ / ₄ | 32.8 | 106 |
| EPG116-80 | 2 | 108 | 144 | 22 | 81.8 | 123 | 1453 | G116 | 116 | 22.5 | 106 | 254 | 4800 | EP40 | 48 ¹ / ₈ | 122 ¹ / ₄ | 3 ¹ / ₄ | 40.9 | 141 |

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 systems shall be listed by the International Association of Plumbing and Mechanical Officials (IAPMO). 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.

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.

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>MANUFACTURED BY:</p>  <p>SunEarth inc. 8425 Almeria Ave. • Fontana, CA 92335 (909) 434-3100 • Fax (909) 434-3101 www.sunearthinc.com</p> | <p>AVAILABLE FROM:</p> <div style="text-align: right;">  </div> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|