



Bubbling Springs Solar

Main Stream™ 40 Collector Specifications

Size	Length: 121.375 inches Width: 47.375 inches Depth: 3.375 inches
Weight	124 pounds
Gross Front Area	39.93 square feet
Aperture	37.47 square feet
Enclosure Material	Side frame is aluminum, backing material is aluminum fastened with aluminum rivets, aluminum capping strip fastened with stainless steel screws
Insulation	1 inch compressed fiberglass at back and sides with an R-value of 4.3
Gaskets	Both glazing and plumbing gaskets are EPDM rubber
Glazing	1/8 inch thick low iron tempered glass with transmittance of 91.0%
Airspace	3/4 to 1 inch (glazing to absorber)
Absorber	Type: fin tube Material: copper waterway with aluminum fin Area: 30.0 square feet Plate Thickness: .020 inches Absorber Plate to Waterway Bonding Method: fin is metallurgically bonded to and fully enclosing the riser tube using a high-pressure rolling mill process Number of Flow Tubes: 8 Flow Pattern: parallel Riser Tube: .48 inches Header Tube: 3/4 inches, also available in 1-inch option Riser to Header Bonding: solder to braised-on nipples Riser Spacing: 5.56 inches
Absorber Coating	Selective Paint Absorptivity: 95% Emissivity: 25%
Volumetric Fluid Capacity	2.8 liters / 0.7 gallons
Normal Operating Temperature Range	50° Fahrenheit to 250° Fahrenheit (-50° Fahrenheit minimum to 570° Fahrenheit maximum)
Recommended Flow Rate	1.00 gallons per minute
Pressure Rating	Panels are pressure tested at 180 PSI, and maximum pressure is 240 PSI. Recommended operating pressure: 15-40 PSI
Energy Collection	Clear Day: 37,100 BTU/day Partly Cloudy: 24,700 BTU/day Cloudy: 12,500 BTU/day