

# SUNCACHE DIMENSIONS, WEIGHTS, AND ENGINEERING SPECIFICATIONS

Harpiris System Model No.	SRCC OG-300 Certification No.	Backup Water Heater Type	Fluid capacity U.S. Gallons	Dry Weight Lbs	Wet Weight Lbs	Length Inches	Width Inches	Depth Inches	Gross Area Sq Ft	Net Aperture Sq Ft	Rated Internal Working Pressure PSI @ 200F	Inlet and Outlet Piping, Inches
SCG-50-ES	300-2007-007A	Electric storage	50	112	525	99	51	8.25	35.4	31.7	120	3/4
SCG-50-GS	300-2008-009A	Gas storage										
SCG-50-GT	300-2008-010A	Gas tankless										

The solar water heating system shall be of the integral collector storage (ICS) type, and shall require no pumps, controls, or parasitic energy consumption for its normal operation. The ICS unit shall be the Harpiris Energy SunCache ICS model SCG-50. The SunCache ICS unit shall be tested in conformance with SRCC Standard TM-1 by an independent testing laboratory, certified by the SRCC under system standard OG-300, and also by the Florida Solar Energy Center (FSEC).

**GENERAL** The dimensions of the SunCache ICS shall be 99" in length, 51" in width, and 8¼" total depth from the roof surface to the top of the glazing. The SunCache ICS shall combine the collector and storage tank as one unit. Installation kits containing all necessary mounting hardware and fasteners for composite shingle roofs shall be used. Contact factory for installation instructions for tile, metal, or flat roofs.

**WATER CONTAINMENT PANEL** The water containment panel shall be not less than 35 lb of SuperLinear™ polyethylene, and be rated at a nominal capacity of 50 U.S. gallons. The color is black with integral ultraviolet inhibitors.

**HEAT EXCHANGER** The heat exchanger shall be of 3/8" type M and ¾" type L copper tubing (alloy 122, NSF-61 rated for potable water use). The rated internal working pressure shall be 120 PSIG at 200°F. All internal manifold braze joints shall be joined utilizing a copper phosphorous brazing alloy with no less than 15% silver content and conforming to the American Welding Society's BCuP-5 classification.

**GLAZING** The glazing shall be one sheet of thermoformed impact-modified acrylic. The thickness of the sheet shall be 0.090" before thermoforming. The glazing shall be replaceable.

**FRAME** The frame shall be a double aluminum extrusion (alloy 6063-T6), with a black or dark bronze baked enamel finish with welded corners.

**INSTALLATION HARDWARE** The installation hardware shall be 12 gauge 304 stainless steel and 6063-T6 aluminum. All fasteners shall be stainless steel (alloy 304).

**VALVE PACKAGE** A pre-assembled valve package is included with all required plumbing components (except the thermostatic mixing valve) and Sharkbite™ fittings for tool-free and instant connections to supply and return lines.

**WIND UPLIFT** The installation hardware, frame and glazing shall withstand at least 30 PSF of uplift pressure (corresponding to 110 mph wind speed) without damage or significant deflection.

## DOUBLE UNIT GLAZED SUNCACHE SYSTEMS ARE ALSO OG-300 CERTIFIED BY SRCC

SCG-100-ES	300-2007-007B	Electric storage
SCG-100-GS	300-2008-009B	Gas storage
SCG-100-GT	300-2008-010B	Gas tankless

