



ICC-SRCC™ LISTING

ICC-SRCC™ Solar Heating & Cooling Listing Program

Listing Number: SRCC-18002

Effective Date: June 14, 2019

This listing is subject to renewal in one year.

(888) 422-7233 ICC-SRCC
www.solar-rating.org 3060 Saturn Street, Suite 100
Brea, CA 92821

A Program of the ICC Evaluation Service (ICC-ES) – www.icc-es.org

CSI: DIVISION: 23 00 00 – HEATING
Section: 23 56 13 – Heating Solar Collectors

Product certification program:

The ICC-SRCC Solar Thermal Standard Listing Program is conducted in accordance with the latest version of the *ICC-SRCC Rules of Procedure for Solar Thermal Listing Reports*. The program includes evaluation of samples and manufacturer's quality assurance systems to assess continued compliance with applicable codes and standard.

Products: Solar Thermal Collectors

Listee: UMA Solar www.umasolar.com
950 Sunshine Lane (407) 831-1941
Altamonte Springs, FL 32714 U.S.A.

Compliance with the following codes, standards and criteria:

- ❖ 2018 International Plumbing Code® (IPC)
- ❖ 2018 International Residential Code® (IRC)
- ❖ 2018 International Mechanical Code® (IMC)
- ❖ 2018 International Swimming Pool and Spa Code® (ISPSC)
- ❖ 2015 Uniform Solar Energy & Hydronics Code® (USEHC)*
- ❖ ICC 901/SRCC 100-2015, Solar Thermal Collector Standard

** Uniform Plumbing Code and Uniform Solar Energy & Hydronic Code are copyrighted publications and trademarks of the International Association of Plumbing and Mechanical Officials (IAPMO)*

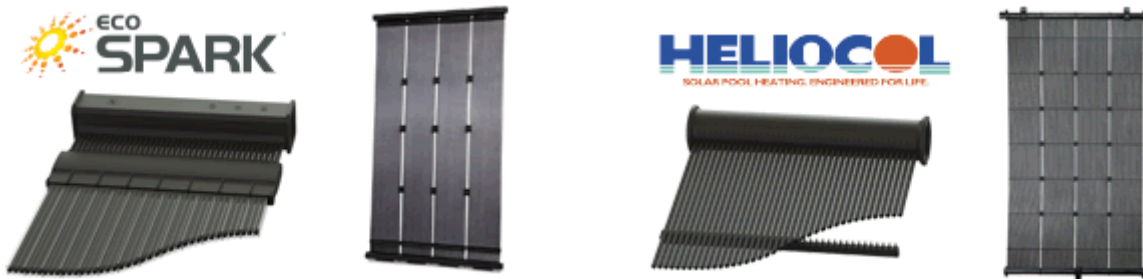
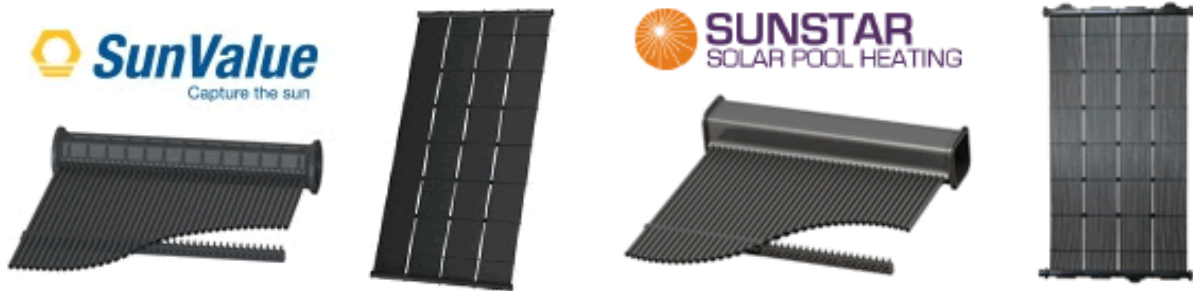
Models:

The solar heating and/or cooling products listed below have been evaluated by the Solar Rating & Certification Corporation (ICC-SRCC™), an ISO/IEC 17065 accredited and EPA-recognized Certification Body, in accordance with the *ICC-SRCC Rules of Procedure for Solar Thermal Listing Reports*, and has been listed by the ICC-SRCC to the specific codes, standards and criteria above. This award of listing is subject to all terms and conditions of the *ICC-SRCC Rules of Procedure for Solar Thermal Listing Reports* and the documents incorporated therein by reference. Where solar collectors are listed, all sizes of the collector model are listed.

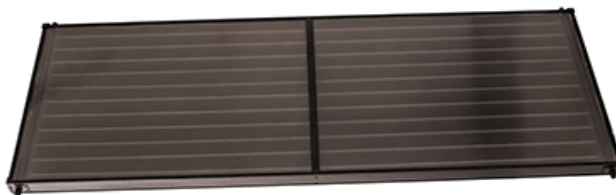
Listed Solar Thermal Collectors

Collector Type	Brand Name	Model Number	ICC-SRCC OG-100 Certification Number*
Unglazed Flat Plate	SunValue 2.0	127608, 127611, 127612	10002051
Unglazed Flat Plate	SunValue	SV	10002003
Unglazed Flat Plate	Sunstar	STR	10001888
Unglazed Flat Plate	Heliocol	HC	10001884
Glazed Flat Plate	Eco Spark	SLES-30	10001782
Glazed Flat Plate	Eco Spark	SLES-40	10001781
Glazed Flat Plate	Solene	SLSG-40	10001923

* OG-100 certificates are available on the ICC-SRCC website at www.solar-rating.org



SOLENE SLSG-



Installation:

Solar collectors must be installed in accordance with the manufacturer's published installation instruction, the applicable code(s) and this listing. Where differences exist, the instructions in this listing must govern.

All individual components of the system which may require periodic examination, adjustment, service and or maintenance must be easily and safely accessible by the owner in accordance with the codes in force at the installation site.

Roof-mounted components shall be installed in such a manner that water flowing off the collector will not damage the building or cause premature erosion of the roof. Water tanks located in or above the living space shall be installed on a drip pan with a drain line to safely remove any excess liquid.

Structural supports shall be selected and installed in such a manner that thermal expansion of the collector and piping will not cause damage to the collector, structural frame or building. Hangers shall provide adequate support and correct pitch of piping and shall be designed to avoid compressing or damaging piping or pipe insulation material.

Conditions of Listing:

1. Collector shall be installed in accordance with the manufacturer's published installation instructions and the applicable code(s).
2. System components requiring access for maintenance and inspection shall be installed to provide required access in accordance with manufacturer's instructions and local codes.
3. Collectors utilizing a non-potable heat transfer fluid must not be connected to the potable water system except through the use of approved devices such as backflow preventers or double-walled heat exchangers as specified and permitted by local codes.
4. Collectors shall be sized in accordance with the demand, manufacturer's requirement, and local codes.
5. Collectors shall not be installed below flood elevation level.
6. Collectors shall only be used with water per manufacturer's requirements.
7. Relief valves shall discharge to a receptor or other approve means as specified by the system manufacturer, fluid supplier and local codes.
8. Each installation must be pressure-tested for leaks in the presence of the code official or code official's designated representative.
9. Devices and components shall not reduce or increase humidity, temperature or thermal radiation beyond acceptable levels or interfere with required headroom or air circulation space.
10. Neither wind loading nor the additional weight of filled collectors shall exceed the live or dead load ratings of the building, roof, roof anchorage, foundation or soil. Collector supports shall not impose undue stresses on the collectors. The design load shall be as specified by the codes in force at the installation site and shall include and additional load due to snow accumulation for applicable locations.
11. Piping used for gravity drainage should be installed sloped toward drain ports with a drainage slope of no less than 2 cm of vertical drop for each meter of horizontal length (1/4 inch per foot) and in accordance with manufacturers requirements.
12. Where used, underground piping shall be installed to withstand surface loads. The trenches and backfill shall be free of sharp objects in contact with the pipe.
13. Field-applied pipe and tank insulation shall comply with local code requirements for thermal insulation value, flame spread, smoke development and finishing.
14. Collectors components, including replacement parts shall be compatible with contacting fluids.
15. Devices and components are manufactured by UMA, Altamonte Springs, FL, USA under a quality control program with surveillance inspection every other year conducted in accordance with the applicable ICC-SRCC program requirements.

Marking:

Models listed above were evaluated to the codes and standards listed in accordance with *the ICC-SRCC Rules of Procedure for Solar Thermal Listing Reports* and are eligible to display the following marks as governed by the *ICC-SRCC Rules for Mark & Certificate Use*.



Each listed device or component shall also be permanently marked with manufacturer's name or trademark, model name and/or number, recommended working fluids, maximum working temperature and pressure, and recommended flow rate(s). Manufacturer's contact information shall be included with these documents.

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by the Solar Rating and Certification Corporation, express or implied as to any finding or other matter in this listing, or as to any product covered by the listing. This document must be reproduced in its entirety.