



ICC-SRCC™ LISTING

ICC-SRCC™ Solar Heating & Cooling Listing Program

Listing Number: SRCC-17001

Effective Date: May 1, 2020

This listing is subject to renewal in one year.

3060 Saturn Street, Suite 100 (888) 422-7233

Brea, CA 92821, USA www.solar-rating.org

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

The Solar Rating & Certification Corporation (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 Water Heating Systems
CSI: DIVISION: 22 00 00 – PLUMBING
Section: 22 33 30.23 – Solar Domestic Water Heating System

DIVISION: 23 00 00 – HEATING
Section: 23 56 13 – HEATING SOLAR COLLECTORS

Listee: TECHNO-SOLIS, INC www.techno-solis.com
301 20th Street South (727) 823-6766
St, Petersburg, FL U.S.A.

Compliance with the following codes:

- 2015 Uniform Solar Energy Code® (USEC)*
- 2015 Uniform Swimming Pool and Hot Tub Code® (USPHTC)*
- 2018 International Swimming Pool and Spa Code® (ISPSC)**
- 2018 International Energy Conservation Code® (IECC)**
- 2015 International Green Construction Code® (IgCC)**
- 2019 California Green Building Standards Code® (CALGreen)
- 2017 Florida Building Code- Residential, Sixth edition (FRC)

Compliance with the following standards and criteria:

- ICC 901/SRCC 100-2015, Solar Thermal Collector Standard
- NSF 50-2014, Equipment for Swimming Pools Spas and Hot Tubs***

**Uniform Plumbing Code, Uniform Solar Energy Code and Uniform Swimming Pool and Hot Tub Code are copyrighted publications and trademarks of the International Association of Plumbing and Mechanical Officials (IAPMO)*

***International Building Code, International Swimming Pool and Spa Code, International Energy Conservation Code and International Green Construction Code are copyrighted publications and trademarks of the International Code Council (ICC)*

**** NSF 50 is a copyrighted publication of NSF International.*

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 SHC Listing Program Operating Guidelines, and has been listed by the ICC-SRCC to the codes and standards above. This award of listing is subject to all terms and conditions of the ICC-SRCC SHC Listing Program Agreement and the documents incorporated therein by reference. Where solar collectors are listed, all sizes of the collector model are listed.

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.

Solar Thermal Collectors

Collector Type	Brand Name	Models	ICC-SRCC OG-100 Certification No.*
Unglazed Flat Plate	Swimmaster	C15TS08, C15TS10, C15TS12 C20TS08, C20TS10, C20TS12	10002063

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

Installation:

Solar thermal 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.

Collectors and supports 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. Collectors shall be installed in such a manner as to minimize the accumulation of debris. Ground-mounted collectors shall be at least 6" above ground level.

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. Neither wind loading (including uplift) 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 an additional load due to snow accumulation for applicable locations.

Roof and wall penetrations shall be flashed and sealed in accordance with Chapter 9 of the Florida Residential Building Code to prevent entry of water, rodent and insects.

Conditions of Listing:

1. System components 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. Solar thermal collectors shall be installed in accordance with the requirements of ISPSC Section 316, Chapter 7 of the USPHTC, IgCC Section 607.3 and Chapter 7 of the USEC.
4. Solar thermal system shall be installed in accordance with the requirements of IMC Section 102.7.1
5. Where used in solar pool heating systems, the pipe and fittings used in conjunction with this collector are recognized for use in pool and spa applications.
6. Systems shall be sized in accordance with the demand, manufacturer's requirement, and local codes.
7. Solar thermal collectors shall not be installed below flood elevation level.
8. Solar thermal collectors shall only be used with water per manufacturer's requirements.
9. Each installation must be pressure-tested for leaks in the presence of the code official or code official's designated representative.
10. 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.
11. Valves shall be installed to allow the solar collector to be isolated from the remainder of the system.
12. Solar thermal collector shall be listed and labeled in accordance with SRCC100
13. Solar thermal components shall use approved mounting hardware in compliance with the manufacturer's installation instructions and the requirements set forth by the Authority Having Jurisdiction.
14. Devices and components are manufactured by TECHNO-SOLIS, INC. under a quality control program with surveillance inspection every other year conducted in accordance with the requirements of ICC-SRCC.

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Marking:

Models listed above were evaluated to the codes and standards listed in accordance with the SRCC Solar Heating & Cooling Code Listing Program Guidelines and are eligible to display the following mark as governed by the SRCC Solar Heating & Cooling Code Listing Program Agreement.



Each 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).

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