



ICC-SRCC™ LISTING

ICC-SRCC Solar Thermal Listing Program

Listing Number: SRCC-16001

Effective Date: April 6, 2019

This listing is subject to re-examination in one year.

www.solar-rating.org (888) 422-7233 ICC-SRCC
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CSI: DIVISION: 22 00 00 – PLUMBING
Section: 22 10 00 – Plumbing Piping and Pumps
Section: 22 35 00 - Domestic Water Heat Exchangers

DIVISION: 23 00 00 – HEATING
Section: 23 56 16 – Packaged Solar Heating Equipment

Product certification program:

The SRCC Solar Heating & Cooling Code and Standard Listing Program are conducted in accordance with the latest version of the ICC-SRCC™ *Solar Heating & Cooling Code & Standard Listing Program Guidelines*. The program includes evaluation of samples and manufacturer's quality assurance systems to assess continued compliance with applicable codes and standard.

Products: Pump Stations for Solar Water Heating Systems

Listee: Heliodyne, Inc. www.heliodyne.com
4910 Seaport Ave. (510) 237-9614
Richmond, CA 94804, U.S.A.

Compliance with the following codes:

- ❖ 2015 International Plumbing Code® (IPC)
- ❖ 2015 International Green Construction Code® (IgCC)
- ❖ 2012 Uniform Solar Energy Code® (USEC)*
- ❖ 2015 Uniform Plumbing Code® (UPC)*

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



Compliance with the following standards and criteria:

- ❖ IAPMO IGC 280-2010, Heat Exchange System*
- ❖ IAPMO PS 92-2010, Heat Exchanger and Indirect Water Heaters*
- ❖ ICC 900/SRCC 300-2015, Solar Thermal Systems Standard
- ❖ SRCC EM-1, Methodology for Determining Compliance with State and Federal Lead in Plumbing Laws for Solar Heating and Cooling Equipment, 10/28/2015. Shows compliance with:
 - Reduction of Lead in Drinking Water Act, California Health and Safety Code § 116875
 - Vermont Lead Reduction Law (Vermont Act 193)
 - Louisiana Reduction of Lead Act (Louisiana Act 362)
 - Maryland Lead-Free Materials Act (HB 372)
 - Reduction of Lead in Drinking Water Act (Section 1417 of the Federal Safe Drinking Water Act (SDWA))
 - NSF 372-2010, Drinking Water System Components – Lead Content**

**IGC 280 and PS 92 are copyrighted publications of the International Association of Plumbing and Mechanical Officials (IAPMO)*

*** NSF 372 are copyrighted publications of NSF International.*

Description:

Pump Stations for Solar Water Heating Systems consist of:

- Piping, fittings and valves
- Expansion tank
- Heat exchanger
- Controller and pump(s)

The Heliodyne HCOM pump station is a plug and play, closed loop, heat-transfer system and is designed to handle a specified maximum number of Heliodyne GOBI flat plate collectors. System features include pressure stagnation Protection (PSP) to maintain glycol integrity, variable speed pumps and internet connectivity for remote system monitoring. HCOM systems can be connected in parallel.



Models:

The solar heating and/or cooling products listed below have been evaluated by the Solar Rating & Certification Corporation™ (SRCC™), an ISO/IEC 17065 accredited and EPA recognized Certification Body, in accordance with the SRCC Solar Heating & Cooling Code and Standard Listing Program Operating Guidelines, and has been listed by the SRCC to the codes and standards above. This award of listing is subject to all terms and conditions of the SRCC Solar Heating & Cooling Code & Standard Listing Program Agreement and the documents incorporated therein by reference. Where solar collectors are listed, all sizes of the collector model are listed.

HPAK 016-00X	16 Double Wall U-Tube, Heat Exchanger and Pumping Station
HPAK 024-00X	24 Double Wall U-Tube, Heat Exchanger and Pumping Station
HPAK 032-00X	32 Double Wall U-Tube, Heat Exchanger and Pumping Station
HPAK 048-00X	48 Double Wall U-Tube, Heat Exchanger and Pumping Station

“X” represents “0” or “1” to indicate the type of pump controller (basic or advanced versions)

HCOM 120 00X	Pump Station for 8-16 collectors, single or double wall heat exchanger
HCOM 180 00X	Pump Station for 16-24 collectors, single or double wall heat exchanger
HCOM 275 00X	Pump Station for 24-32 collectors, single or double wall heat exchanger
HCOM 550 00X	Pump Station for 32-64 collectors, single or double wall heat exchanger
HCOM 825 00X	Pump Station for 64-96 collectors, single or double wall heat exchanger

“X” represents “0” for single wall or “1” for double wall heat exchanger (models DW1020 or LC110DW)

Installation:

Solar water heating systems and 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.

Conditions of Listing:

1. Devices and components shall be installed in accordance with the manufacturer’s published installation instructions and the applicable code(s).
2. Pump stations shall not be installed in outdoor locations or below flood elevation level.
3. Pump stations shall be used with water or aqueous solutions of ethylene glycol or propylene glycol up to 100% concentration.
4. Relief valves shall discharge to an approved receptor for disposal in accordance with local codes and requirements.
5. Pump Stations for Solar Water Heating Systems shall be installed as part of a solar water heating system in accordance with the requirements of ICC 900/SRCC 300, Section 503 of the IPC, Chapter 5 of the UPC and Chapter 3 of the USEC and must provide provision for bypass, adjustment or override controls as are required to facilitate installation, startup, operation, shutdown and maintenance.



6. Devices and components are manufactured by Heliodyne, Inc. in Richmond, CA under a quality control program with surveillance inspection every other year conducted in accordance with the requirements of ICC-SRCC.

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).

All warning lights, switches and controls shall be clearly identified. Where the pump station includes electrical components, the station shall be labeled with the electrical rating in volts, amperes and motor phase.

Any operation, maintenance and installation instruction manuals from the manufacturer shall be supplied with the pump station. Supplier'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.