SOLAR RATING & CERTIFICATION CORPORATION

An ICC Evaluation Service Program

OG-300 Solar Water Heating System Certification

No./30004321

Issued: May 28, 2020

Expiration Date: April 01, 2027

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CERTIFICATION HOLDER:	EVALUATION SUBJECT	
GREENoneTEC Solarindustrie GmbH Industriepark St. Veit Energieplatz 1 St. Veit, 9300 Austria www.greenonetec.com	**BRAND:** **MODEL:** **TYPE:**	Sunpad Sunpad E ICS, Direct

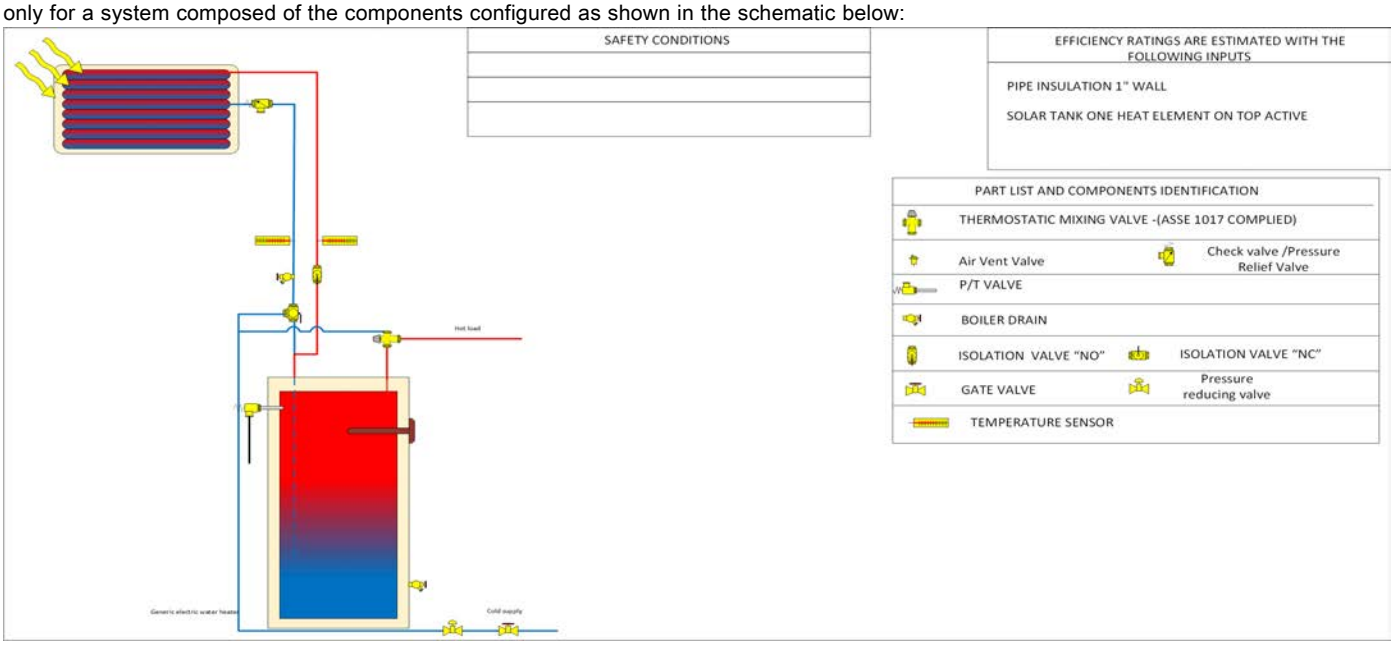
PRODUCT CERTIFICATION SYSTEM:

The ICC-SRCC OG-300 system certification program includes evaluation and performance ratings for solar water heating systems as established in the *ICC-SRCC Rules for Solar Heating & Cooling Product Listing Reports*. The program also includes periodic factory inspections and surveillance of the manufacturer's quality management system.

COMPLIANCE WITH THE FOLLOWING STANDARD(S): *ICC 900/SRCC 300 - 2015, Solar Thermal System Standard*

INSTALLATION:

The solar water heating system must be installed in accordance with the manufacturer's published installation instructions. Installation must conform to the requirements of the applicable code and is subject to approval by the code official having jurisdiction. This certification is valid only for a system composed of the components configured as shown in the schematic below:



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PARTS LIST:

Part	Quantity	Evaluated Component
Collector Option 1	1	GREENoneTEC Solarindustrie GmbH Model SUNPAD (OG-100 10002098)
Auxiliary Tank	1	STANDARD ELECTRIC AUXILIARY TANK Model EAXTk80GalR12 (189 L volume)
Solar Tank	1	SOLAR TANK Model STHX (197 L volume)

IDENTIFICATION:

Certified systems must be identified with the OG-300 certification mark below in accordance with the *Rules for Certification Mark and Certificate Use* and labeled in with the information below per *ICC 900/SRCC 300*:

1. Manufacturer's name and model number.
2. OG-300 system certification number
3. OG-100 collector certification number(s) and quantity.
4. Heat transfer fluid and concentration range.
5. Storage and expansion tank volumes.
6. Relief valve specification and setpoint.
7. Maximum water supply pressure.
8. Maximum solar loop pressure.
9. Flow rate range (where a flow meter is installed).
10. Backup energy rating. For electrical, phase/volts/amps. For gas, minimum pressure.
11. Installation date field (to be entered by the installer in the field).

CONDITIONS:

The certified solar water heating system must comply with the following conditions:

1. Systems must be installed and operated in accordance with the manufacturer's instructions and local code.
2. Systems must include all components installed in the configuration shown in the schematic in the OG-300 certification document.
3. Systems must use one of the OG-100 certified solar collector options from the list above. Where more than one collector is installed in a system, all collectors must be the same model.
4. Systems must utilize heat transfer fluids approved by the manufacturer.
5. Certifications 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 report or a recommendation for its use.
6. There is no warranty by ICC-SRCC express or implied, as to any finding or other matter in this certification, or as to any product covered by the certification.
7. This document must be reproduced in its entirety.

REGIONAL RATINGS:

Thermal performance ratings are provided for the system based on computer modeling to standard OG-300 rating conditions and a hot water load of 64.3 gallons per day (243.4 litres per day) at a setpoint of 125°F (51.7°C) for comparison. Performance is given using the following values:

- Annual Solar Fraction (SF_A): The portion of the total conventional hot water heating load (including tank standby losses) provided by solar energy averaged over one year.
- Annual Energy Savings (AES): The projected energy savings over a period of one year for the system compared to a baseline tank-type water heater using the same fuel source.

Results are given for several climate zones throughout North America. Climate zones are as established in *ANSI/ASHRAE 169, Climatic Data for Building Design Statndard*. Actual thermal performance and energy savings for an installed system will vary with local conditions, installation details and hot water usage.

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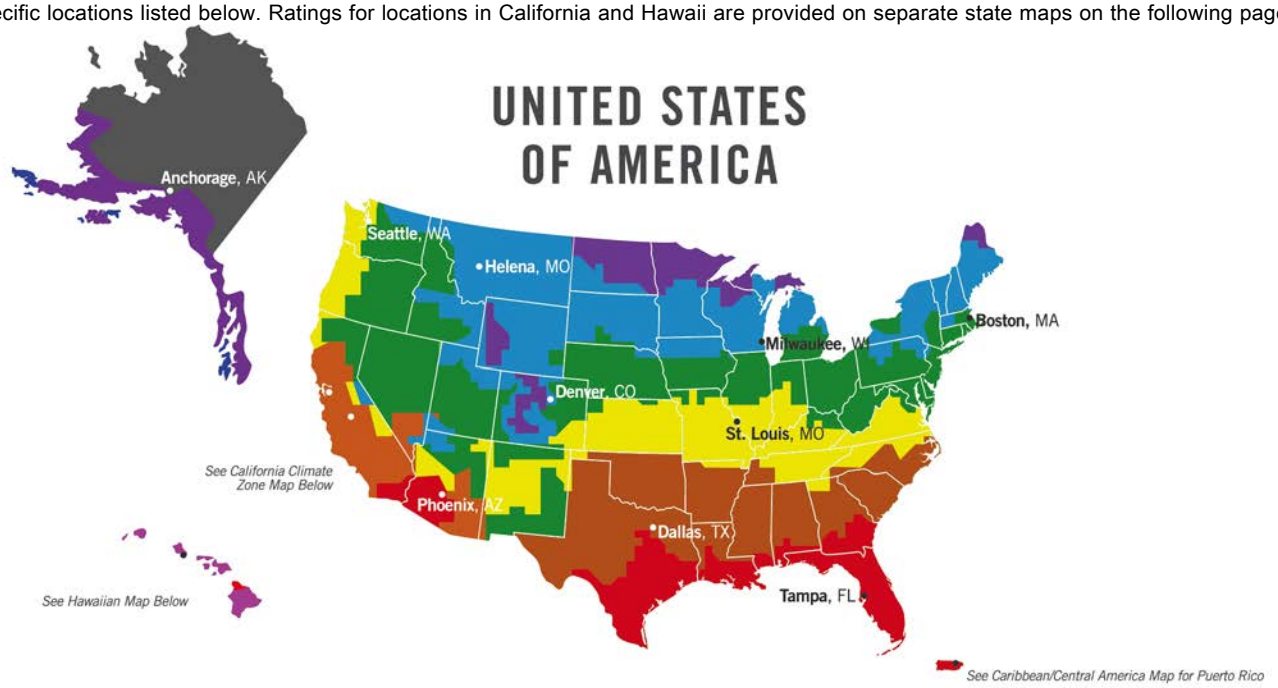
UNITED STATES OF AMERICA

OG-300 LOCAL ANNUAL SOLAR WATER HEATING SYSTEM PERFORMANCE

System performance at several geographic locations in the United States corresponding to climate zones as established in ASHRAE 169 is provided below. Ratings are determined using weather data, solar irradiance and water supply temperature over a period of one year for the specific locations listed below. Ratings for locations in California and Hawaii are provided on separate state maps on the following pages.



USA			
Location	Climate Zone (ASHRAE 169)	Solar Fraction (SF_A)	Annual Energy Savings (kWh)
AK - Anchorage	7	0.14	750
AZ - Phoenix	2B	0.48	1680
CO - Denver	5B	0.29	1350
FL - Tampa	2A	0.38	1290
MA - Boston	5A	0.24	1090
MO - St Louis	4A	0.27	1160
MT - Helena	6B	0.23	1180
TX - Dallas-Fort Worth	3A	0.34	1300
WA - Seattle	4C	0.21	960
WI - Milwaukee	6A	0.22	1060

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STATE OF CALIFORNIA

OG-300 LOCAL ANNUAL SOLAR WATER HEATING SYSTEM PERFORMANCE

System performance at several geographic locations in the state of California corresponding to building climate zones as established by the California Energy Commission (CEC) is provided below. Ratings are determined using weather data, solar irradiance and water supply temperature over a period of one year for the specific locations listed below.

State of California			
Location **	**Climate Zone (ASHRAE 169)***	**Solar Fraction (SF_A)**	**Annual Energy Savings (kWh)**
CCZ 1 - Arcata	7	0.24	1080
CCZ 2 - Santa Rosa	6B	0.31	1320
CCZ 3 - Oakland	3C	0.31	1350
CCZ 4 - Sunnyvale	4C	0.33	1400
CCZ 5 - Santa Maria	5C	0.33	1430
CCZ 6 - Los Angeles	3B	0.34	1350
CCZ 7 - San Diego	3B	0.35	1360
CCZ 8 - El Toro	3B	0.36	1430
CCZ 9 - Burbank	3B	0.36	1460
CCZ 10 - Riverside	3B	0.37	1460
CCZ 11 - Red Bluff	3B	0.34	1350
CCZ 12 - Sacramento	3B	0.34	1400
CCZ 13 - Fresno	3B	0.38	1510
CCZ 14 - China Lake	3B	0.39	1470
CCZ 15 - El Centro	3B	0.46	1580
CCZ 16 - Mt. Shasta	7	0.28	1290

* Climate zones are as established in ANSI/ASHRAE 169, Climatic Data for Building Design Standard.

** California Building Climate Zones and representative cities are established by the California Energy Commission for use in the CA Title 24 Energy Efficiency Standards

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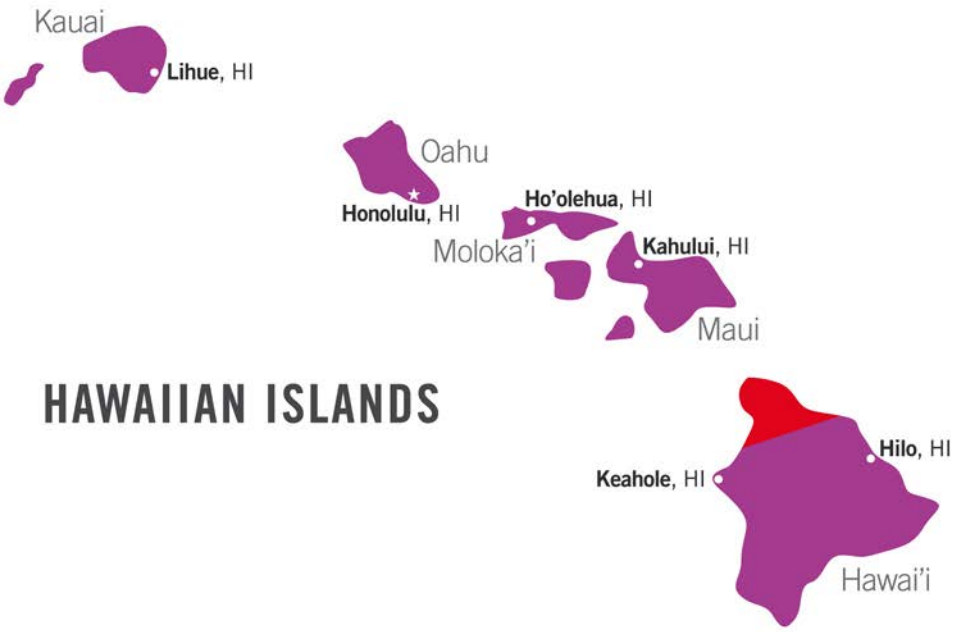
HAWAIIAN ISLANDS

OG-300 LOCAL ANNUAL SOLAR WATER HEATING SYSTEM PERFORMANCE

System performance at several geographic locations in the Hawaiian Islands corresponding to climate zones as established in ASHRAE 169 is provided below. Ratings are determined using weather data, solar irradiance and water supply temperature over a period of one year for the specific locations listed below.



State of Hawaii			
Location	Climate Zone (ASHRAE 169)	Solar Fraction (SF_A)	Annual Energy Savings (kWh)
Hawaii Island - Hilo	1	0.34	1140
Honolulu - Oahu Island	1	0.41	1310
Maui Island - Kahului	1	0.42	1340
Hawaii Island - Keahol	1	0.42	1400
Lihue - Kauai Island	1	0.39	1270
Ho'olehua - Molokai Island	1	0.42	1350

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CANADA

OG-300 LOCAL ANNUAL SOLAR WATER HEATING SYSTEM PERFORMANCE

System performance at several geographic locations in Canada corresponding to climate zones as established in ASHRAE 169 is provided below. Ratings are determined using weather data, solar irradiance and water supply temperature over a period of one year for the specific locations listed below. The local annual ratings are provided for a 243 L/day (64.3 gal/day) hot water load.

Canada			
Location	Climate Zone (ASHRAE 169)	Solar Fraction (SF_A)	Annual Energy Savings (kWh)
AB - Edmonton	5	0.21	1100
NS - Halifax	7A	0.19	920
ON - Thunder Bay	7A	0.23	1110
QC - Quebec City	5	0.21	1080
MB - Winnipeg	7A	0.21	1130
AB - Calgary	7A	0.23	1190
BC - Vancouver	7	0.21	970

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CENTRAL AMERICA AND CARIBBEAN REGION

OG-300 LOCAL ANNUAL SOLAR WATER HEATING SYSTEM PERFORMANCE

System performance at several geographic locations in Central America and the Caribbean region corresponding to climate zones as established in ASHRAE 169 is provided below. Ratings are determined using weather data, solar irradiance and water supply temperature over a period of one year for the specific locations listed below.

Central America & Carribean Region			
Location	Climate Zone (ASHRAE 169)	Solar Fraction (SF_A)	Annual Energy Savings (kWh)
Barbados - Christ Church	1	0.49	1520
Costa Rica - San Jose	1	0.44	2000
Jamaica - Kingston	1	0.53	1640
Mexico - Monterrey	2	0.30	1150
Mexico - Mexico City	2	0.32	1480
Belize - Belize City	1	0.40	1220
Puerto Rico - San Juan	1	0.44	1370

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