



CERTIFIED SOLAR SYSTEM

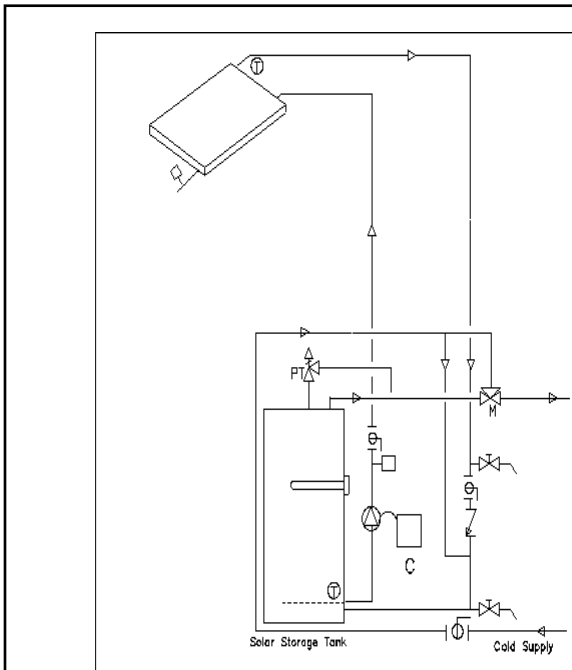
SUPPLIER:
Pacific West Solar
 9625 N 21st. Drive
 Suite 9
 Phoenix, AZ 85021 USA
 www.pacificwestsolar.com

BRAND: FREEZE SAFE SWH
MODEL: FS410-80-1
SYSTEM TYPE: Pumped, Direct
CERTIFICATION #: 2008001A
Original Certification: March 26, 2008
Expiration Date: March 26, 2018

The solar system listed below has been evaluated by the Solar Rating & Certification Corporation™ (SRCC™), an ANSI accredited and EPA recognized Certification Body, in accordance with SRCC OG-300, Operating Guidelines for Certifying Solar Water Heating Systems, and has been certified by the SRCC. This award of certification is subject to all terms and conditions of the Program Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

Description: Glazed Flat Plate, Differential, -23 °C -9 °F, Non-GRAS, UL listed electric tank, Freeze valve

Single-day Rating		SINGLE DAY RATING CONDITIONS	SI Units	Inch-Pound Units
Solar Energy Factor (SEF _D)	Solar Fraction (SF _D)	System Set Temperature	57.2 °C	135 °F
2.2	0.58	Environmental Temperature	19.7 °C	67.5 °F
Single-day Rating Conditions: SEF _D = Solar Energy Factor (info link) SF _D = Solar Fraction (info link)		Ambient Temperature Profile Average	14.4 °C	58 °F
		Water Mains Temperature	14.4 °C	58 °F
		Delivered Load	43.3 MJ/day	41,045 Btu/day
		Solar Irradiance	4,733 Wh/m ² -day	1,500 Btu/ft ² -day



Storage Tank(s)	
Solar Tank Vol (l)	Solar Tank Vol (gal)
303	80
Approximate Collector Area: 3.9 m ² , 41.7 ft ²	

The solar water system listed here has been certified by the SRCC as meeting the minimum standards for testing, installation, operation, maintenance, performance, reliability and safety as specified in SRCC Document OG-300. Thermal performance ratings are based on the successful durability and performance testing of a sample collector, where said tests have been conducted by an independent laboratory approved and listed by the SRCC. The system has been modeled using the computer simulation program TRNSYS to calculate the ratings.

Before the Supplier can make any change in design, materials, specifications, parts, or construction, the change(s) must be reported to the SRCC for evaluation of continued certification.

REMARKS:

Jen Higgins

Technical Director





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Annual Ratings in AZ-PHOENIX			Annual Rating using hourly weather data for the chosen city: SEF _A = Solar Energy Factor (info link) SF _A = Solar Fraction (info link) Energy Savings = Estimated annual energy saved compared to a conventional water heater using the same type of backup
Solar Energy Factor (SEF _A)	Solar Fraction (SF _A)	Energy Savings (kWh)	
4.9	0.82	2860	

Only the following options for the collector array are approved:

Option	Collector Panel Manufacturer	Collector Panel Request Number	Collector Panel Model Number	Collector Panel Name	Quantity	Total Panel area(m ²)	Total Panel area(ft ²)
1	Pacific West Solar	2007063A	FS410	Freeze Safe	1	3.87	41.67

