



Residential Solar Water Heating System

CIRREX® SOLAR ELECTRIC PACKAGED SYSTEM

The CIRREX® packaged system from A. O. Smith is the latest advancement in solar water heating. With the CIRREX solar water heating system, A. O. Smith provides *everything under the sun* needed for a comprehensive solar system, allowing for quick and easy specification and installation. Properly sized solar water heating systems can provide up to 70% of the energy needed for water heating directly from the sun.

The System: Comes complete with tank, pump station, solar collectors, automatic air vent, mounting hardware for shingled roof, roof flashing, thermostatic mixing valves, expansion tank with mounting kit, tank and collector temperature sensors (includes 75 ft. lead wire) propylene glycol (Dow Frost™). Copper plumbing and pipe insulation not included.

SOLAR PUMP STATION

20" tall x 10" wide x 5" deep, 120v Wall mounted with **Integrated Controls** - includes pump, controller, isolation valves, fill and drain valves, check valves, temperature gauges, pressure gauge, solar loop pressure relief valve, flow meter, and air stripper - all in an enclosed, insulated assembly.

SRCC Certified for OG-100 (with OG-300 pending) - required for most federal, state and local rebate programs.

Solar Energy Factor (SEF) projected from 2.5 to 4.0

SOLAR COLLECTORS

Glazed plate solar collectors with selective paint absorber coating, black aluminum frame, utilizes copper tube with aluminum absorber, tempered glass cover.

COLLECTOR HARDWARE PACKAGE

A complete kit for mounting solar collectors – for flat mount shingled roof (additional options for varying roof styles are available as accessories).

OPTIONS:

Choice of tank size (80 or 119-gallons), choice of 2 or 3 solar collectors, choice of single or double wall (applications determined by local code).

WARRANTY:

6-year limited tank warranty, 10-year limited Solar Collector warranty, 2-Year Controls warranty, 1-year misc. parts warranty. For complete information, consult written warranty or contact A. O. Smith Water Products Company



MODEL SACI-80-2



ENERGY STAR® qualified



Low Lead Compliant

Eligible for Tax Credit:
Through 2016, these units are eligible for a Federal Tax Credit of 30% of the total installation cost.

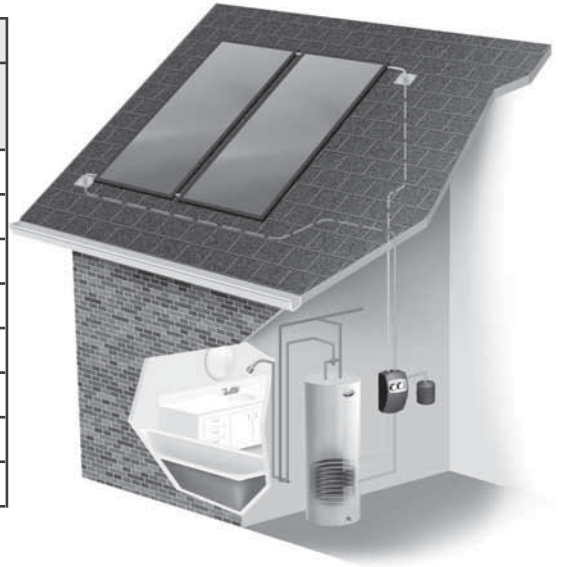


Proudly partnered with Chromagen to provide solar thermal collectors.



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SYSTEM INFO					
SYSTEM MODEL NUMBER	SOLAR BOOSTER TANK MODEL (Included)	STORAGE CAPACITY	HEAT EXCHANGER	SOLAR ENERGY FACTOR*	NUMBER OF SOLAR COLLECTORS
SACI 80-2	SUNX-80	76	Internal, Single wall	2.5	2
SACI 80-3	SUNX-80	76	Internal, Single wall	3.0	3
SACI 120-2	SUNX-120	108	Internal, Single wall	3.0	2
SACI 120-3	SUNX-120	108	Internal, Single wall	4.0	3
SACE 80-2	SUNX-80	80	External Double Wall	2.5	2
SACE 80-3	SUNX-80	80	External Double Wall	3.0	3
SACE 120-2	SUNX-120	120	External Double Wall	3.0	2
SACE 120-3	SUNX-120	120	External Double Wall	4.0	3



*Projected value
A single 4500 watt / 240 volt backup element included on all models.

SOLAR COLLECTOR DATA	
Absorber coating	Black Paint
Width (inches)	42 1/2
Length (inches)	86 1/4
Depth (inches)	3 1/2
Area - Gross (sq ft)	25.46
Dry Weight (lbs)	84
Fluid Capacity (US gal)	0.9
Design Flow Rate (gpm ea.)	0.67
Max Operating Pressure (psi)	150
Weight (lbs) ea	90

WEIGHT OF COMPLETE PARTS PACKAGE SYSTEM			
2-Solar Collector System			
Description	Qty	Weight (lbs)	Ext. Weight (lbs)
Solar Collectors	2	90	180
Dowfrost-5-gallon	1	47	94
Pump Station	1	23	23
Common Parts Box	1	12	12
Misc. Parts Box	1	12.5	12.5
Pipe Insulation	2	0.5	1
*Shipping Crate	1	150	150
		Total	472.5
3-Solar Collector System			
Description	Qty	Weight (lbs)	Ext. Weight (lbs)
Solar Collectors	3	90	270
Dowfrost-5-gallon	1	47	94
Pump Station	1	23	23
Common Parts Box	1	12	12
Misc. Parts Box	1	13.5	13.5
Pipe Insulation	2	0.5	1
*Shipping Crate	1	150	150
		Total	563.5

*Approx. Weight

CSA CERTIFIED AND ASME, FACTORY INSTALLED T&P RELIEF VALVE

CODES AND STANDARDS

Complies with current editions of: UL Standard for Household Electric Storage Tank Water Heaters, UL 174; Canadian Standard for Construction and Test of Electric Storage-Tank Water Heaters, CAN/CSA-C22.2 No. 110-M90; Packaged Solar Domestic Hot Water Systems (Liquid-to-Liquid Heat Transfer) For All-Season Use, F379.1-09; Packaged Solar Domestic Hot Water Systems for Seasonal Use, F379.2-09 and ICC Codes and HUD Standards