

EnerWorks

Residential Solar Water Heating Appliances

*Harness the sun's energy
to heat your water -
a clean, cost-effective solution*

EnerWorks Solar Water Heating Appliances are the first in a series of renewable energy appliances suitable for new and retrofit residential applications. The EnerWorks Water Heating Appliance acts as the primary source of your family's hot water. Your existing electric, fossil fuel or on-demand water-heater functions as an auxiliary heating source.

EnerWorks appliances supply energy for less than the cost of grid electricity — solar energy at 6¢ per kWh represents real savings. Choosing emission-free, solar energy is a positive step to a clean environment and to saving money. Calculate your savings at www.enerworks.com/flash/solar_calculator.swf

EnerWorks appliances are built to SRCC OG 300 and CSA F379 standards.



HOW IT WORKS

Solar energy is captured by the solar collectors as heat. The Energy Pack attached to your solar storage tank transfers the heat to your water.

PRODUCT FEATURES

Solar Collectors

The collectors resemble roof top skylights and can be roof, fence or rack-mounted almost anywhere with a southern exposure. The solar collectors feature a patented, self-regulating mechanism that allows hot air to vent, preventing overheating on a hot summer day. The food-grade heat-transfer fluid provides freeze-protection, supporting appliance operation and continued savings through the winter.

Energy Pack

The appliance uses free solar energy to heat water for your household needs. Solar heated water is produced during sunny periods; if necessary, your existing water-heater heats the water during periods of low solar radiation and at night.

Patented anti-fouling protection prevents clogging of the heat exchanger, a common problem with many solar water heaters, and ensures optimal performance.

Application: Average Size Household, Year-Round Use

Two Collectors

Product performance varies with household hot water use and geographic location. To review product performance for a specific location, please visit: www.enerworks.com/flash/solar_calculator.swf
Performance independently verified by Bodycote Material Testing at the National Solar Test Facility in Toronto, Canada.

PRODUCT TECHNICAL SPECIFICATIONS

Collector

- Two, 4' x 8' (2.9 m²) collectors, 3" (7.6 cm deep) 110 lb (50 kg) each
- Patented Collector Temperature Control US Patent #7,143,762 B2
- Frame & Flashing: Galvalume™ steel, satin finish, neutral dark color
- Absorber: Copper tube on aluminum sheet; absorptance 94% ± 2%, emittance 5% ± 2%
- Glazing: Low-iron, tempered glass

Energy Pack

- 44 lb (20 kg)
- Pump & Motor: 120 VAC, nominal 23 Watts, high-precision gear pump
- Controller & Monitor: Differential temperature controller CSA/UL approved
- Heat-Transfer Fluid: Solution of 50% Propylene-Glycol USP/EP by volume with distilled water; non-toxic, no additives
- Expansion Tank: Coated steel tank with internal bladder
- Heat Exchanger: Brazed-plate, stainless steel; Patented Anti-Fouling Protection, US Patent #6,827,091

Mounting Hardware

- Roof, rack or wall-mounted, EnerWorks collectors have a proprietary bracket system that is flexible and safe

Solar Storage Tank

- Minimum 60 Imp. Gallon/270L/80 USG, R16 preheat storage tank, standard North American electric hot water tank

Auxiliary Storage Tank

- New or existing tank in good repair with at least 5 years of product life remaining (electric, natural gas, propane or oil)
- Temperature-sensitive on-demand water heater may also be used for auxiliary heating

Line-Set

- Heat-Transfer Lines: 3/8" (9.5 mm) OD copper tube, refrigeration-grade, soft copper tubing
- Control Wire: 18-gauge solid core, 2-conductor wire
- Insulation: Armaflex, Golf-O-Flex or equivalent insulation on transfer lines

Leaf-Guard

- Galvalume™ steel, satin finish, neutral dark color
- For applications where leaves or other debris could collect under collectors

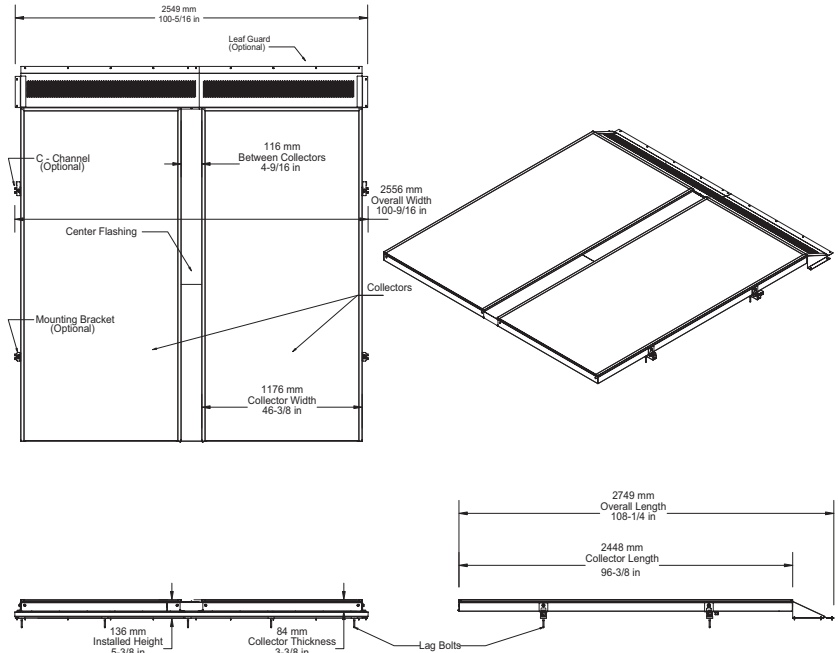
SOLAR COLLECTORS



Collector Certification: SRCC 100-2005-014A
Various appliance configurations are certified under SRCC OG-300; please refer to SRCC listings.



Master Contract # 232023



ENERGY PACK

