



C A T A L O G U E



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www.enerworks.com — 1-877-268-6502
470 Industrial Ave. Woodstock Ontario N4S 7L1 Canada

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ABOUT ENERWORKS

Enerworks is a leading North American manufacturer and designer of solar thermal systems with market leading technologies. Our patented overheat protection in our evacuated tube collectors keeps your solar system safe from overheating. Our Enersol Solar Pool heaters are known for their long life and dependable performance.

We offer design assistance for your project to ensure that it meets your expectations and provides the long, trouble free product life people have come to expect.

Our project portfolio includes a variety of different industries in North America and the Caribbean such as hotels, hospitals, retirement homes, research and production facilities, national parks, military bases, residential communities, public schools, restaurants, laundry mats, dairy farms, apartment buildings, etc.

We have the experience and resources to help you make your projects, big or small, successful.



**SARASOTA, FL USA - HOSPITAL
42 COLLECTORS**



**WOODSTOCK, ON CANADA - RETIREMENT HOME
3,240 EVACUATED TUBES**

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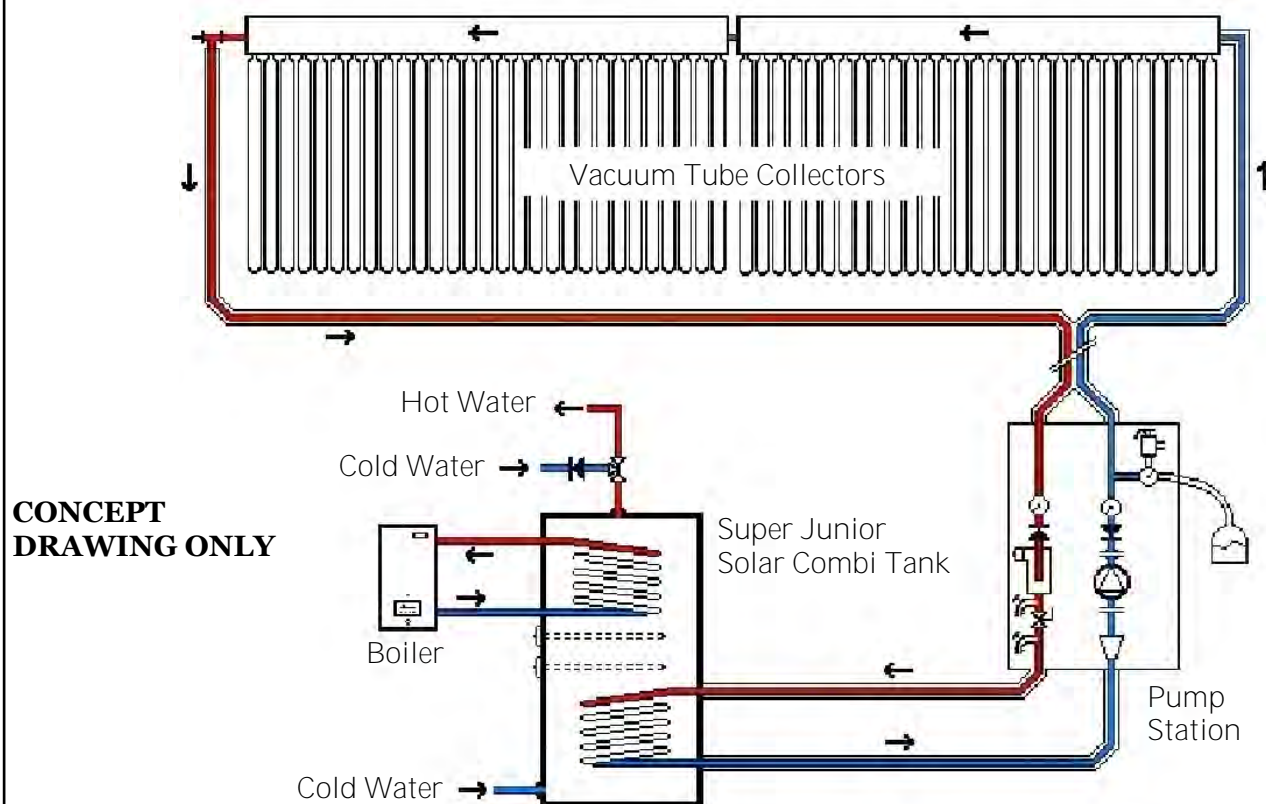
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Glossary

Array:	A set of banks of collectors arranged in rows or columns
Bank:	An arrangement of collectors in one row
SET:	Solar Energy Terminal
CSST:	Corrugated Stainless Steel Tubing
DWHX:	Double Wall Heat Exchanger
LF:	Low Flow
SWHX:	Single Wall Heat Exchanger
ULF:	Ultra Low Flow

Solar Water & Boiler

Off Grid Compatible



These solar water heating packages have been designed as pre-packaged ready to install systems where a back up heat source is currently available. These packages include:

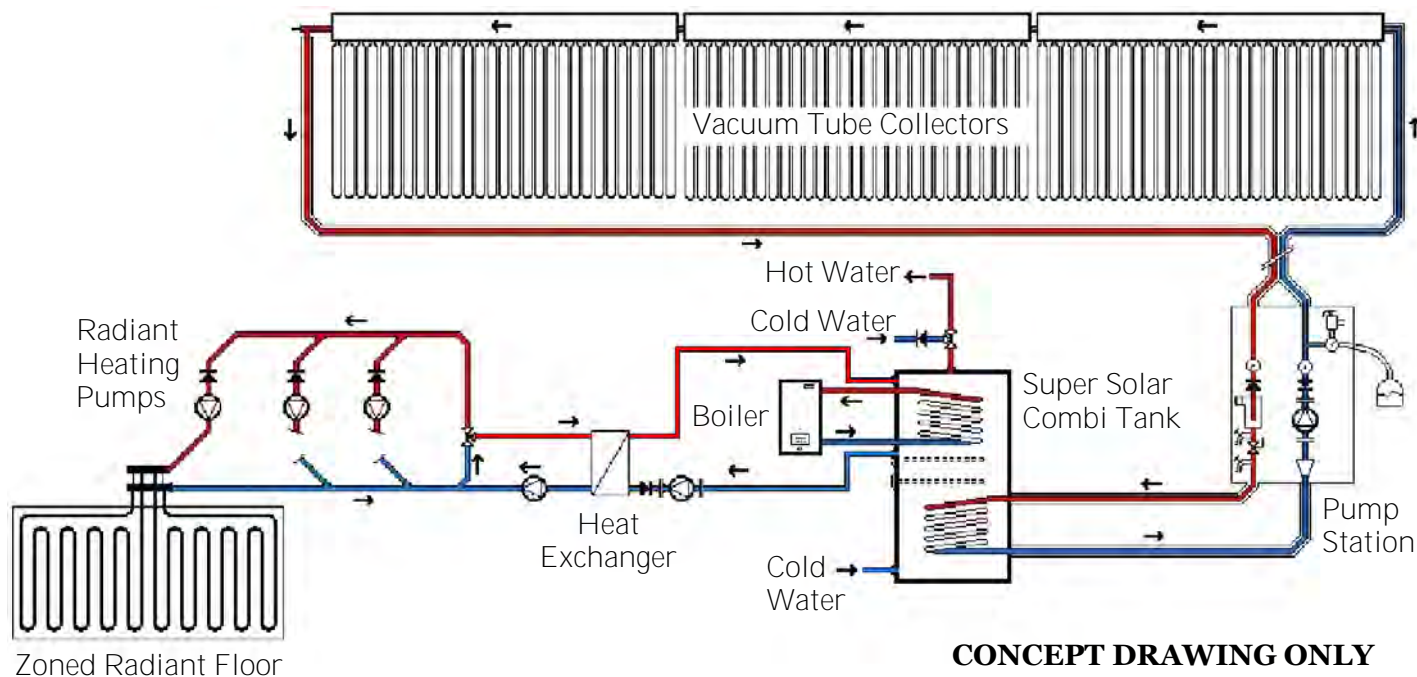
- Heat pipe vacuum tube collector (see page 5)
- XAA499—119 USG Super Solar Combi Tank (see page 7)
- PSC-POR-0060—Flowcon C+ Evolution II Pump Station with Controller and exp. tank (see Page 6)
- 100ft 3/4" Insulated Corrugated Stainless Steel Tubing, fittings and 50ft of temperature sensor wire. (see page 10)
- VHP-SOA-ADJR —35-55 Degree adjustable racking for each collector. (see page 9)
- Tyfocor L solar glycol sized for each system (see page 9)

30 tube collector with hot water boiler back up package
PSWV83 **MSRP \$15,014.02**

60 tube collector with hot water boiler back up package
PSWV86 **MSRP \$19,911.71**

Also available with Bosch on demand water heater.

Solar Combi Water and Space Heating with Boiler Off Grid Compatible



These solar water heating packages have been designed as pre-packaged ready to install systems where a back up heat source is currently available. These packages include:

- Heat pipe vacuum tube collector (see page 5)
- XAA499—119 USG Super Solar Combi Tank (see page 7)
- PSC-POR-0060—Solar Pump Station with expansion tank (see Page 6)
- 200ft 3/4" Insulated Corrugated Stainless Steel Tubing, fittings and 100ft of temperature sensor wire. (see page 10)
- VHP-SOA-ADJR—35-55 Degree adjustable racking for each collector. (see page 9)
- Tyfocor L solar glycol sized for each system (see page 9)

60 tube collector - water and space heating package

PSSWV126

MSRP \$26,969.86

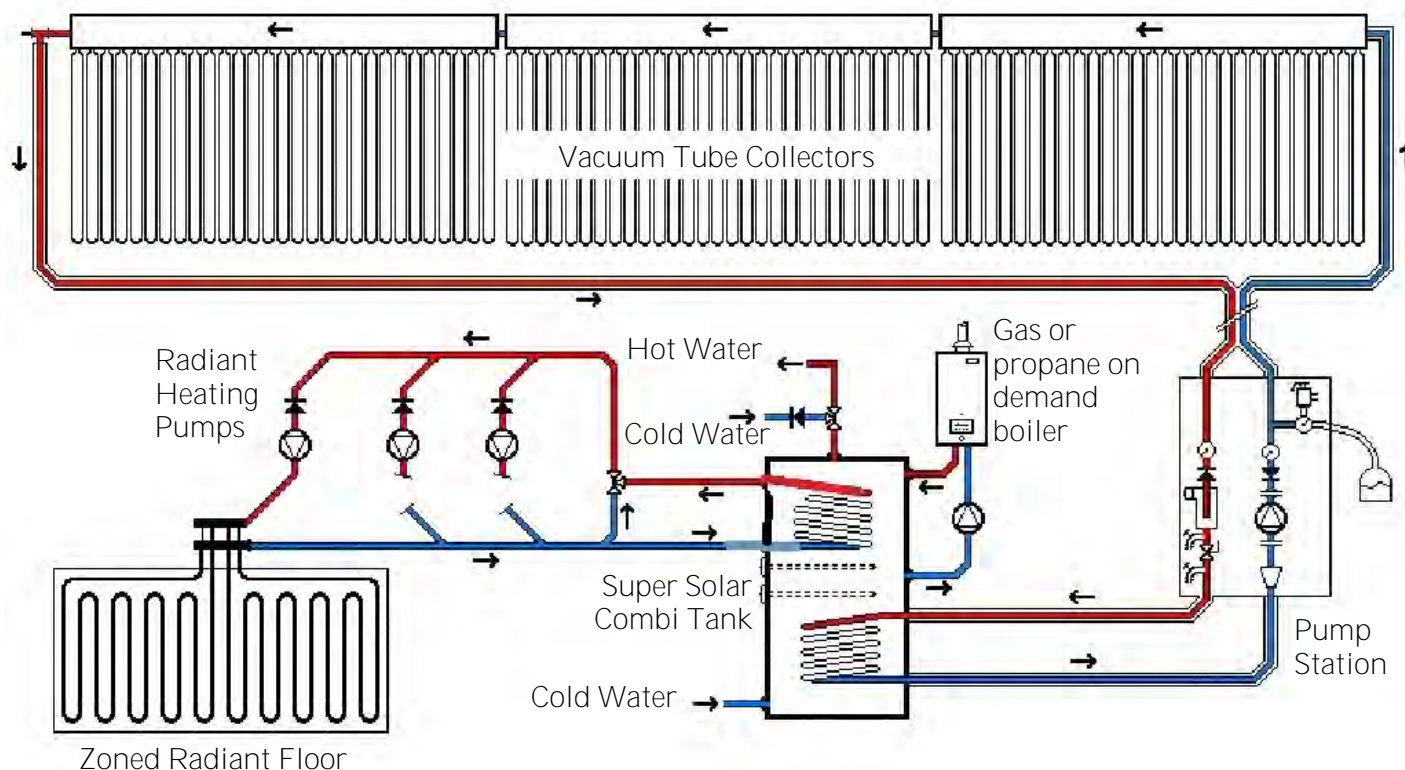
90 tube collector - water and space heating package

PSSWV129

MSRP \$31,867.55

For package modifications please contact Enerworks for more information.

Solar Combi with On Demand Off Grid Compatible



These solar water and space heating packages have been designed as pre-packaged ready to install systems which include a natural gas (propane available) back up heat source. These packages include:

- Heat pipe vacuum tube collector (see page 5)
- XAA499—119 USG Super Solar Combi Tank (see page 7)
- PSC-POR-0060 Flowcon C+ Evolution II Pump Station with Controller and expansion tank (see Page 6)
- 200ft 3/4" Insulated Corrugated Stainless Steel Tubing, fittings and 100ft of temperature sensor wire. (see page 10)
- VHP-SOA-ADJR—35-55 Degree adjustable racking for each collector. (see page 9)
- Tyfocor L solar glycol sized for each system (see page 9)
- BOSCH Therm 940 199,000 BTU space and water heating kit (see page 8)

60 tube collector - water and space heating package

PSSWVB126

MSRP \$31,401.71

90 tube collector - water and space heating package

PSSWVB129

MSRP \$36,299.40

Heat Pipe Collectors



S-Power Heat Pipe Collectors use German manufactured NARVA evacuated tubes which feature a patented overheat limitation which prevents the collectors from exceeding 160C (or 320F). This overheat protection is critical in protecting the solar glycol and system components from overheating in the event of system stagnation, mechanical equipment failure or power disruption.

The collector can be mounted at angles that range from 20 degrees to 90 degrees (completely vertical) to optimize summer and winter energy collection. Each evacuated tube can be individually rotated east or west up to 30 degrees to optimize absorber orientation and collector performance.

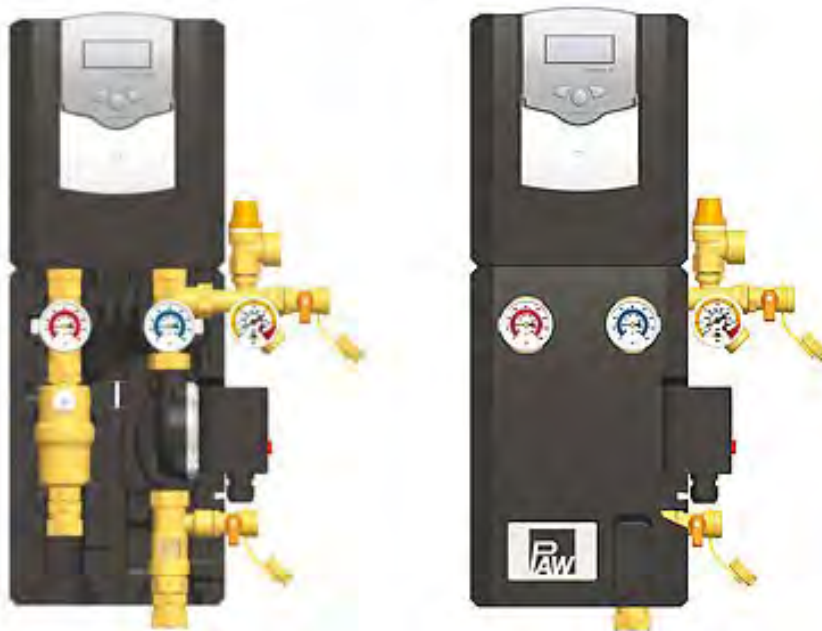
The modular design allows for evacuated tubes to be installed without tools and without removing the top manifold cover. Collector manifolds connected in series provide a seamless design which hides the connection fittings and gives the appearance of one continuous collector. This features provide for an installation time which can be up to 50% faster than other similar products on the market.

A unique anti-reflection nano coating on the glass provides ultra-high light transmission (~97%) setting new industry benchmarks. The patented glass to metal seal maintains the industry leading vacuum for heat retention. Soda lime glass prevents loss of vacuum over time due to Helium ingress. The TINOX coated absorber collects direct sunlight from the front and reflected sunlight from the back of the collector. Solar **Keymark EN 12975** and the **SRCC™ OG100** test standards show that these features provide up to a 35% increase in performance.



[click for pricing](#)

Combi Solar Pump Station



The PAW Flowcon Evolution II pump station features a WILO Star 21 pump and a flow meter which can measure and set flow between 0.8-6gpm. An integrated RESOL BS Plus controller provided flexibility in closed loop system configurations.

With integrated flush and fill ports, air separator, pressure relief valve and pressure and temperature gauges this unit saves hours of piping on site and ensures a clean looking installation. Controller and pump station are assembled in the field and electrical certification may be required in some jurisdictions.

Available RESOL Data Logger provides access to historical data and connection to the internet with iPad® and iPod® applications for system monitoring.

Flowcon C+ Evolution II Pump Station with Controller.

0.8-6gpm flow rate. Includes temperature sensor kit.

PSC-PoR-0060 Flocon C+ EVOII Pump Station w/controller [click for pricing](#)

XAA155 **6 gallon nominal H/T expansion tank** [click for pricing](#)

Resol Data Loggers

Provides historical operation data and internet connection and read-out with a standard internet browser

C1M-RDL2-FK **Resol DL2 Data Logger** [click for pricing](#)

C1M-RDL3-FK **Resol DL3 Data Logger** [click for pricing](#)

Stainless Steel Sensor Well—NPT thread—7.87” long

C1M-RTH200V-15 **Resol TH200V** [click for pricing](#)

Super Solar Combi Tank



The Enerworks Super Solar Tank is designed to be the most comprehensive combination solar tank on the market. This tank simplifies controls and complicated piping arrangements to provide the most cost effective long term solution for combination solar heating systems. With the following features, there is almost no job this tank won't be suited for.

- **Two 40' long x 1.25" diameter stainless steel coils provide a total of 26 square feet of heat transfer surface to rapidly transfer solar energy into the tank and to the heating loop from the upper coil.**
- **3" or 4" of foam insulation (depending on model) provides industry leading heat retention to minimize wasted energy through standby losses.**
- Provision for on demand water heater back up allow the use of propane, or natural gas back up with solar water and space heating applications.
- Input ports for geothermal water heating and wood boiler heating supply provide additional flexibility with fuel sources.
- Built in surface and immersion sensor locations tie all systems together without complicated controls or additional mechanical components.
- Uniquely designed cold water inlet port prevents sediment build up and 316L stainless steel construction offers maximum corrosion protection and life expectancy.
- Available with double wall heat exchangers (visible leak detection) to meet local codes.
- Supplied with magnesium anode rod installed.

Super Solar Combi Tank—119 U.S. gal

316L Stainless Steel, Double Coil solar combi tank with 4" of insulation for solar heating systems.

XAA499

[click here for specifications](#)

[click for pricing](#)

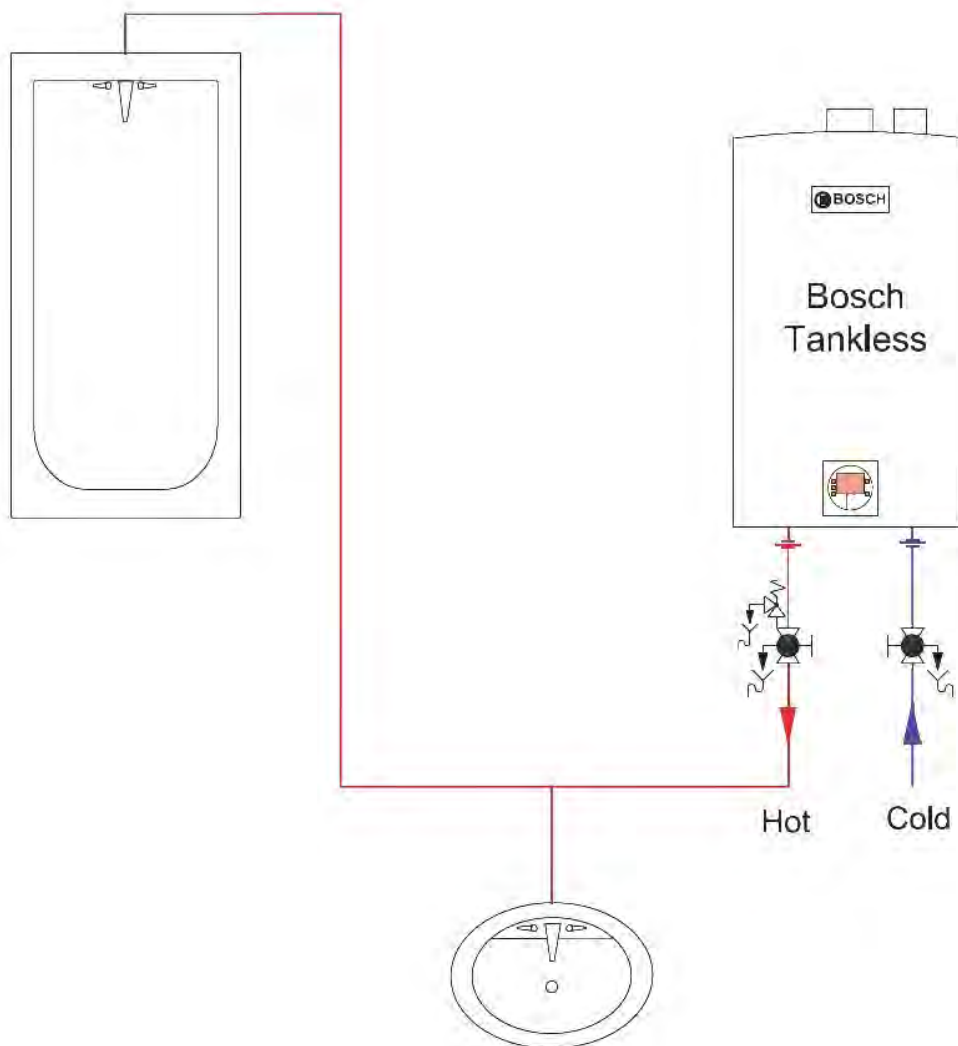
Double Wall Visible Leak Detection Coil Option

Add this option to meet local codes or commercial building specifications. Price per coil.

XAA499DWO

[call us at 1-877-268-6502 for pricing](#)

On Demand Water Heating



199,000 BTU Space and Water Heating Kit

Available in Natural Gas and Propane versions for indoor and outdoor installation. Variable input from 19,000BTU—199,000BTU. Built for durability and serviceability with solar.

Unlike other on demand heaters this unit is approved by the manufacturer when installed for the Enerworks Solar Combi Design and will not void warranty. Discount applied when ordered with solar system.

BOSCH Therm 940

Isolation & Flushing valves

[click for pricing](#)

[click for pricing](#)

S-Power Collector Accessories

	<p>Adjustable Rack for Flat Surfaces Aluminum racking adjusts between 35-55 degrees to optimize collector angle.</p> <p>VHP-SoA-ADJR click for pricing</p>
	<p>Elevation Racking Aluminum racking is fixed at 20 degrees for angled roofs or 70 degree awning wall mount.</p> <p>VHP-SoA-FIXR click for pricing</p>
	<p>Flush Mount Kit This kit allows flush mounting collectors to roofs, walls or mounting rails.</p> <p>VHP-SoA-FEET click for pricing</p>
	<p>Heat Pipe Connection Kit coupler If your solar collector bank has N solar collectors, you will need (N-1) couplers.</p> <p>VHP-SoA-CPLR click for pricing</p>
	<p>Heat Pipe End Connector Kit w/Sensors Well One required per bank.</p> <p>VHP-SoA-ECSW click for pricing</p>
	<p>End Caps Kit 1 required per bank. Hardware to install is included.</p> <p>VHP-SoA-ENDC click for pricing</p>
	<p>Tyfocor L Solar Glycol - 1 USG. PG1-3.78 click for pricing</p> <p>Tyfocor L Solar Glycol - 5 USG. GP100 click for pricing</p>

S-Power Collector Accessories (continue)



Corrugated Stainless Steel Tubing

50ft roll of 3/4" dual solar tubing with R4 insulation.

LS20-AL-2CSR4S-50

[click for pricing](#)



Fittings for corrugated stainless steel tubing

Available CSST to CSST, compression to CSST, sweat to CSST, MIP to CSST.

[click for pricing](#)

S-Power Heat Pipe Manifold Assembly

Anodized aluminum collector frame houses the copper manifold which transfers heat to the solar loop. Heat Pipe tubes, end covers, mounting hardware and piping connection hardware are sold separately.



[click for pricing](#)

NARVA Heat Pipe Evacuated tube



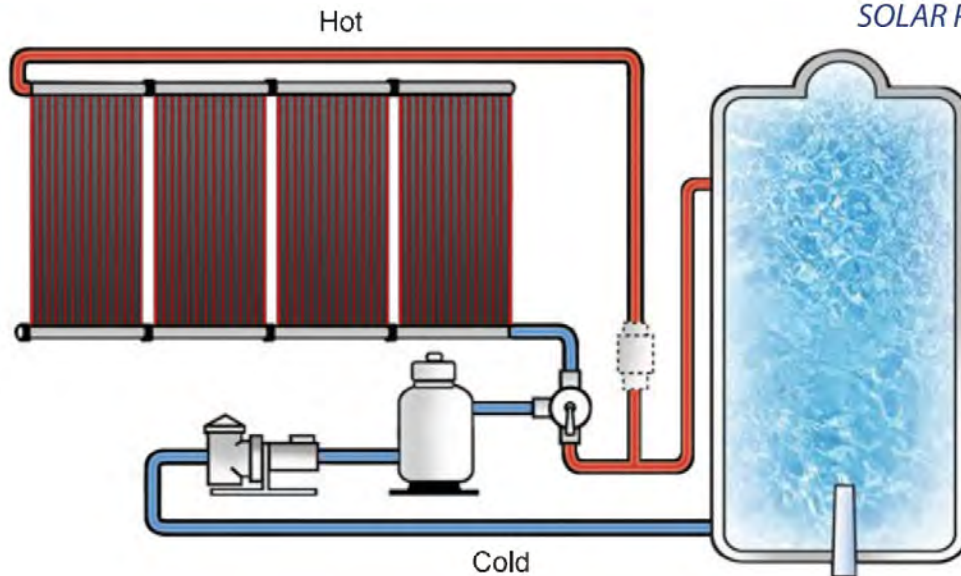
Single wall Soda Lime Glass construction with patented temperature limitation to 160C (320F) and a patented glass to metal seal maintaining a vacuum which is guaranteed by a 10 year manufactures warranty.

S-Power HP - Heat Pipe Vacuum Tube, Double Coating, 800mm and 2000mm

[click for pricing](#)

Solar Pool Heating Collector

Enersol
SOLAR POOL HEATING



The Enersol Solar Pool Heating System heats your pool in a simple, yet effective way. Pool water is pumped from your existing pool pump to the **Enersol solar pool heating collectors**. The sun's rays heat the water in the panels, then the heated water is returned to your pool.

10° – 15° Warmer Pool Temperatures NATURALLY!

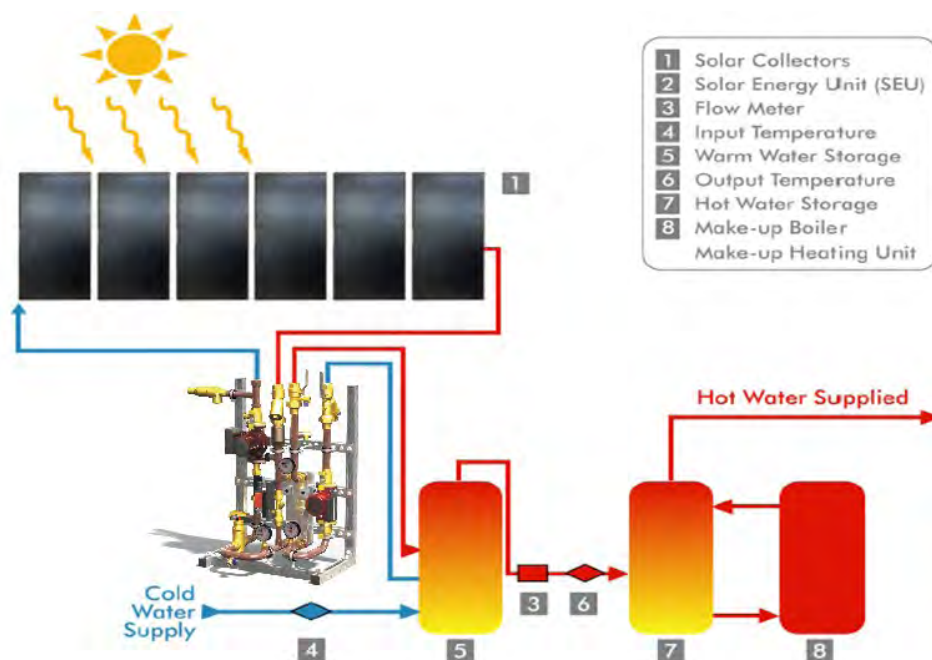
For more information visit: www.enersol.com

Or **click** on the image to see

videos of installation demos:



Commercial and Light Commercial Systems



For commercial, light commercial, and industrial applications, the Enerworks Spectrum Commercial Solution offers reliability, flexibility and unrivalled efficiencies, engineered to maximize performance, save money and contribute to a healthier environment.

Enerworks' pre-engineered thermal solutions can be integrated into new construction or retrofitted to existing structures. Freeze-protected Enerworks Premier Efficiency Collectors are roof, rack, or wall mounted in arrays sized to optimize solar energy captured. The Enerworks system is an effective and economical way to provide hot water and heat for commercial and industrial applications.

For more information on case studies visit: www.enerworks.com/case-studies/

Or [click](#) on the images for live monitoring projects:





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