

# SOLVELOX™ by solarHOT™

The Solar Thermal package which converts any existing water heating system into a solar water heating system using our Patent Pending appliance.

- Available in Drainback and Glycol models.
- Pre-assembled system eliminates the hassle and cost of putting the components together on the job.
- No cast iron components in the system eliminates corrosion concerns.
- Mounts directly to the side of a standard 80 gallon hot water tank.
- Eliminates expensive closed loop storage tanks.
- Use on locally available hot water tanks.
- 50% more surface area for heat transfer than other brands.
- Comes with state of the art digital control.
- One SolVelox can heat storage tanks of any size.
- One SolVelox can heat multiple tanks.
- Our highly efficient heat exchange process means the pumps run less saving you even more money.
- Ideally suited for retrofits. Heat an existing water heater without adding a solar storage tank.
- Convenient ports for ease of descaling and an engineered particulate filter to prevent heat exchanger clogging (a requirement for any heat exchanger to insure optimum performance).



**Making Solar Make Sense**

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# Submittal Data Information

## SolVelox DB

### Features

- All-in-one Heat Exchanger, Dual-sided circulators and electronic control package
- Brazed Plate Heat Exchanger
  - Stainless steel
  - Counter-flow design
  - Engineered particulate filter
- Only 4 pipe Connections required
- Solid State Microprocessor design
- Greatly Decreases Installation Time
- Substantial space savings
- Line cord included, Hard wire option
- Bronze casing on both pumps for corrosion resistance
- Replaceable cartridge design
- Maintenance free wet rotor circulators
- Large Back lit LCD Display
- Storage tank temperature limit
- Animated representation of solar system operation. 2 sensors included

### Performance Data

Collector Side – Drainback model  
 Flow Range: 0 – 11 GPM  
 Head Range: 0 – 33 Feet

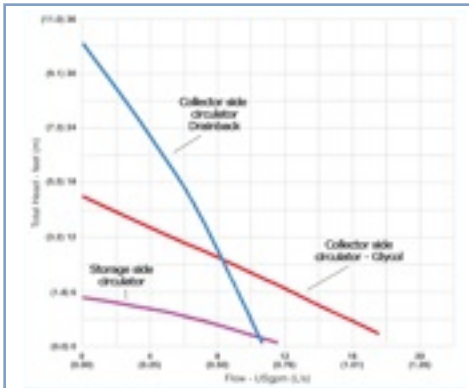
Collector Side – Glycol model  
 Flow Range: 0 – 18 GPM  
 Head Range: 0 – 16.5 Feet

Storage Side – (both models)  
 Flow Range: 0 – 12 GPM  
 Head Range: 0 – 5.5 Feet

Minimum Fluid Temperature: 32°F (0°C)  
 Maximum Working Pressure: 125 psi  
 Connection Sizes: 3/4" NPT

**FOR INDOOR USE ONLY**

### Performance Curves



### Application

The Solvelox is a complete solar pump package with everything you need to connect your solar panels to your storage tank. Integral to the unit are two high-efficiency bronze circulators, a brazed plate, counterflow heat exchanger and the electronics to drive it all. The Solvelox can be purchased to run either drainback or glycol based systems. This unparalleled flexibility within a single unit creates a pumping, heat exchange and control package that can be used in systems utilizing standard hot water tanks. Whether you are installing a solar domestic hot water system or a solar radiant heating system this package has it all. With just 4 piping connections needed, the Solvelox greatly reduces the time and space required for installation.

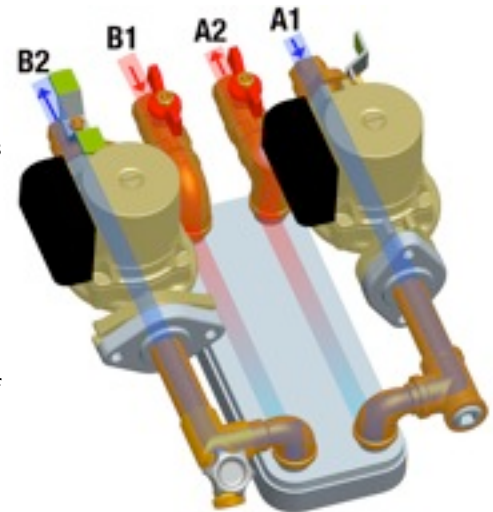
The features of the Solvelox make it easy and cost effective to include a solar hot water system in any new home or home remodeling project. The Solvelox makes the perfect companion for solar supported radiant heating systems as well. No need to work in confined spaces to make all the connections needed. All of the connections are done for you.

### Operation

Cold water from the storage tank enters the Solvelox at port (A1) and exits at port (A2). The high-efficiency bronze circulator has been “flow-matched” to the unique requirements of your solar application. “Flow-matching” insures that the flow rate between the Solvelox’s heat exchanger and the storage tank maximizes the heat exchange while minimizing the de-stratification of your storage tank. The heat exchanger is a counterflow style, so hot water from the solar panels, or drainback tank, enters at port (B1) and exits at port (B2). A high efficiency bronze circulator moves the water around the B (collector) side.

### Sizing and Piping

The Solvelox can handle transfer loads in excess of 240,000 BTUs per solar day making it suitable for larger hybrid space heating/domestic hot water systems. Your current method of piping virtually remains the same; yet standard storage tanks are used saving you time and aggravation. The glycol system comes complete with check valve, additional fill port, pressure relief valve, polypropylene lined expansion tank, line cord, and 2 sensors. Everything you need for fast, plug n’ play connections.



Model	Volt	Hz	Ph	Amp	HP	Ship Wt.
SolVelox Glycol	120	60	1	1.18	2@1/25	45 lb
SolVelox Drainback	120	60	1	1.48	1@1/25 1@1/20	40 lb

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