FEATURING TINOX BLUE SPUTTERED ABSORBER

High quality, environmentally friendly titanium and quartz cover the metallic substrates.

LOW PROFILE
Black aluminum extrusion casing looks attractive on a roof, resembling a low profile skylight.

HIGH PERFORMANCE
11 copper risers are ultra-sonically welded to blue sputter coated copper fins for maximum heat transfer and high efficiency.

SOLARHOT
PLATINUM SERIES

SOLARHOT collectors are a fine-tuned design, manufactured using first quality materials and advanced techniques, which result in highly efficient, durable products you can depend on for years to come.

1. Absorber Plate - The absorber plate consists of copper fins ultrasonically welded to copper risers, this provides excellent heat transfer between the fins and risers, ensuring high efficiency.

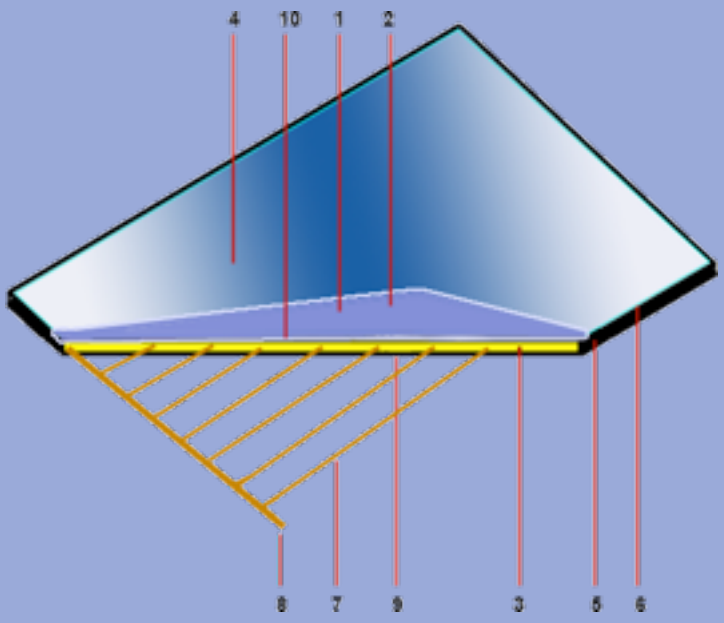
2. Absorber Plate Coating - The absorber plate is coated with a German engineered blue sputtered coating, the most efficient absorber coating without exception. The absorption rate is 95% with extremely low emissivity of 5%.

3. Insulation - We spray polyurethane foam insulation into the cavity eliminating any issues with air infiltration. On top of the polyurethane we add a layer of mineral wool for extra insulation to further lock in the heat.

4. Solar Glass Glazing - The single pane 4 mm solar glass is patterned to reduce reflection and is tempered to maximize strength and durability. The low iron oxide content of 0.03% enables a high solar transmittance of 91%.

5. Casing - The black aluminum extrusion casing looks attractive on a roof. The unique design does not have any obtrusive bolts or screws. It resembles a low profile skylight.

6. Gasket - The all-around EPDM gasket is highly resistant to temperature variations and UV radiation. The gasket absorbs the differential expansion of the frames and glazing.



7. Tubing Grid - ½" copper risers are brazed to 1" copper manifolds for optimal flow distribution. SOLARHOT collectors have 11 risers - that's 10% more risers than other leading flatplate collectors.

8. Piping Connection - Four 1" stub-out sweat connections.

9. Back Plate - The aluminum back plate is lightweight, long lasting and corrosion resistant.

10. Aluminum Foil - Attached to the insulation, the aluminum foil acts as a barrier against out-gassing.

Contact your local SOLARHOT dealer:

SOLARHOT
Making Solar Make Sense

Call us (919) 439 2387
or visit us on the web - www.solarh2ot.com

SolVelox™ by solarH2Ot™

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 three stage particulate removal system to prevent heat exchanger clogging (a requirement for any heat exchanger to insure optimum performance).

Making Solar Make Sense

solarH2Ot ltd www.solarhotusa.com Tel: 919 439 2387 Fax: 919 573 0791

Submittal Data Information

SolVelox

Features

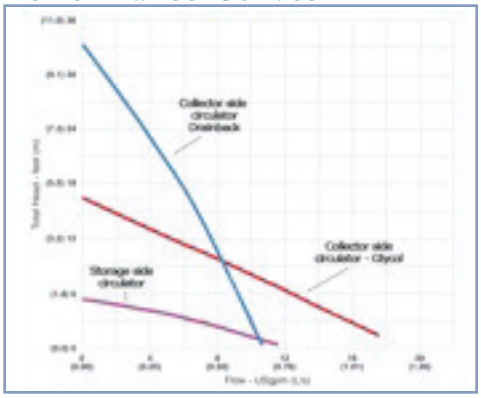
- All-in-one Heat Exchanger, Dual-sided circulators and electronic control package
- Brazed Plate Heat Exchanger
  - Stainless steel
  - Counter-flow design
  - Engineered particulate filter
- Only 4 pipe Connections required
- Solid State Microprocessor design
- Greatly Decreases Installation Time
- 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: ¾" 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.

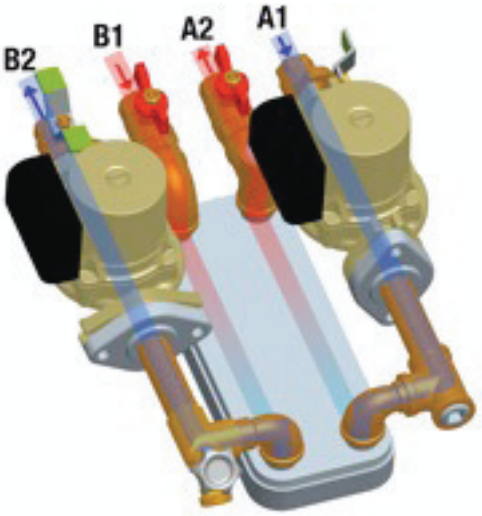
The features of the Solvelox make it easy and cost effective to include a solar hot water system in any new home or home remodeling project. The Solvelox makes the perfect companion for solar supported radiant heating systems as well. No need to work in confined spaces to make all the connections needed. 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 solar fluid 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, 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	50 lbs
SolVelox Drainback	120	60	1	1.48	1@1/25 1@1/20	50 lbs

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