Submittal Data Information

101-136

Solar X-Pump Block (SXPB)®

Effective: February 2, 2009

Supersedes: NEW

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	

Features

- All-in-One Heat Exchanger, Dual Circulators and Variable Speed Solar Control Package
- Variable Speed Benefits:
  - Matches Output of Collector
  - No Short Cycling of Circulator
  - +20% increased Performance
- Brazed Plate Heat Exchanger:
  - Provides Complete Isolation
  - Stainless Steel
  - Easily Removable
- User Definable Output, Supports:
  - Collector Sink / Dump
  - Storage Tank Supplement
  - Booster Pump Function
- Only 4 Pipe Connections Required:
  - Greatly Decreases Installation Time
- Supports Drain Back Applications
- Freeze Protection for Open Systems
- Holiday Function:
  - Minimizes Collector Stagnation
- Displays Energy Collected in kW / Hours (When optional flow sensor is connected)
- Bronze Casing for Open or Closed Systems
- Replaceable Cartridge Design
- Maintenance Free, Wet-Rotor Circulators
- Pump Operation / Control Override Switch
- Supports 1 or 2 Storage Tank(s)
- Large LCD Display
- 3 Strap-on Sensors included

Performance Data

Flow Range: 0 – 7.5 GPM

Head Range: 0 – 15.5 Feet

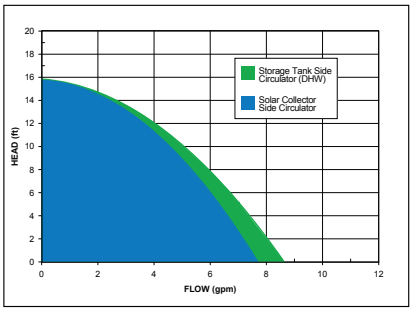
Maximum Storage Tank Temperature: 185°F (85°C)

Maximum Working Pressure: 125 psi

Connection Sizes: 3/4" NPT

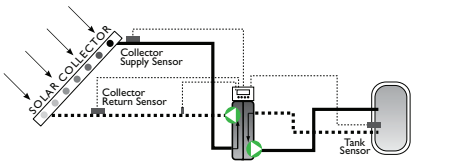
c UL us LISTED **FOR INDOOR USE ONLY**

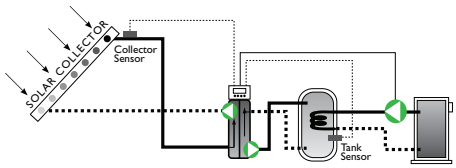
Performance Field

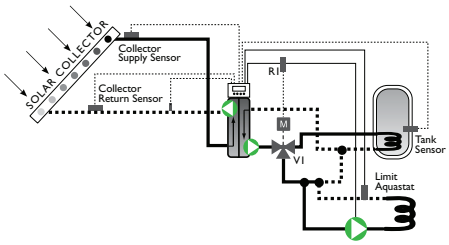


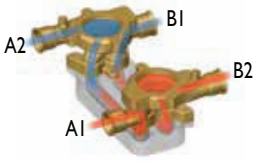
All-in-One Solution

The Solar X-Pump Block (SXPB) is a complete solar thermal solution with an attached brazed plate, counterflow style heat exchanger for system isolation. Integral to the unit is a variable speed heat source circulator, constant speed heat sink circulator, heat exchanger, and the electronics to drive it all. The Solar SXPB can be set up to maintain a setpoint differential between the solar collector and a primary and optional auxiliary storage tank, can support a booster pump as part of a drainback system, features an intelligent heat dump option, freeze protection, and conveniently displays the energy collected by the collector on its display. With just four pipe connections needed, the SXPB greatly reduces the time and space required for installation.







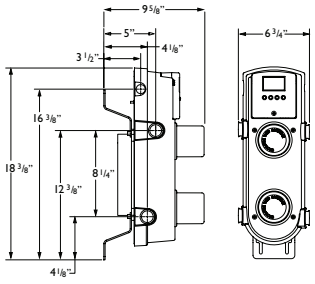


Operation

Hot water from the solar collector enters the X-Pump Block's integral heat exchanger at port (A1) and exists at (A2). The variable speed circulator controls the speed of the water flowing through the A side of the heat exchanger to satisfy the heat transfer requirements between the A side of the heat exchanger and the B side while maintaining the proper delta T. The heat exchanger is a counterflow style, so potable water from storage tank enters at port (B1) and exits at port (B2). A constant speed circulator moves the potable water for the storage tank around the B side of the heat exchanger.

Electrical & Weight Data

Model	Volts	Hz	Ph	Amps	RPM	HP	Ship Wt.	
SXPB-1	120	60	1	2	3250	2 @ 1/25	lbs.	Kg
Motor Type	Permanent Split Capacitor Impedance Protected						26.5	12.0



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