

## SB1250PWc

**Technology Description-** Floating, solar powered, circulation equipment for potable water reservoirs. Day/night operation on solar only by utilizing a battery to store excess daytime power for nighttime operation.

**Materials of Construction** - T316 stainless steel constructions.  
Foam-filled high-density polyethylene (HDPE) floats.  
Thermoplastic rubber intake hose. HDPE Strainer.

**The SB1250PWc is NSF/ANSI Standard 61 Listed, includes NSF/ANSI 61, Annex G.**



**Minimum Access Opening / Machine Size / Weight** - Machine can be installed through 24 inch (61 cm) diameter opening. Assembled machine is 10 feet (3.0 meter) in diameter in floating position and weighs 200 pounds (90 kg).

**Drive System** - High torque, direct drive (no gearbox), low voltage brushless D.C. motor.

**Minimum Operating Depth** - At depths below 2 feet (0.6 meters), the impeller will be out of the water and the machine will stop circulating water. No damage to machine if ran dry in shallow water.

**Minimum Head Space** - 18 inch (0.5meter) headspace is required.

**Flotation System** - Three floats in triangular pattern each with an adjustable float arm for proper vertical positioning, total float buoyancy of 600 lbs (270 kg).

**Power Supply/Control System** - *Photovoltaic (PV) Solar Panel, Battery and Electronic Controller are mounted on rack outside.*

**PV Solar Panels:** 80-watt photovoltaic solar panel. Battery storage for day/night operation.

**Electronic Controller:** Digital, solid-state controller, mounted in weather-tight (NEMA 4X) enclosure with internally fused disconnect. SCADA output through RS-232 Serial Communication (Modbus RTU), DB9 male connection point inside enclosure. Wireless options available, not included.

**Wiring:** Corrosion-resistant industrial cord with molded watertight connectors that are indexed to prevent improper wiring. Low voltage in reservoir, less than 36 VDC.

**Rotating Assembly** - Removable assembly with easy access to impeller and impeller shaft.

**Fluid Intake Assembly** - *Intake hose banded to bottom of structural assembly.*

**Intake Hose :** 20 to 100+ feet (6 to 30+ m) available in 8-inch (20 cm) diameter X 20 feet (6 m) sections.

**Intake Assembly at Bottom of Hose:** Rectangular intake with openings around perimeter.

**Intake Depth Adjustment:** No depth adjustment is necessary for fluctuations in water level. Intake draws water in a horizontal layer within 1 inch (2.5 cm) of the tank or reservoir floor.

**Chlorine Boosting** - Chlorine boost hose, accessible at top of reservoir spans down and connects to intake for fast chlorine dispersion during in-reservoir boosting.

**Accessories Available** - (1) Portable Disinfectant Boost System, (2) LED RPM Indicator (3) Supplemental Power Kit, and (4) Wireless SCADA Kit.

**Shipping Size / Weight**

- **Crate** - 4 feet W X 6 feet L X 5 feet H (1.2 m x 1.8 m x 1.5 m) / 500 pounds (225 kg) *Exact weight and dimensions varies dependent on machine configuration.*

**Maintenance / Warranty** - Minimal maintenance. Limited 2-year parts and labor warranty.

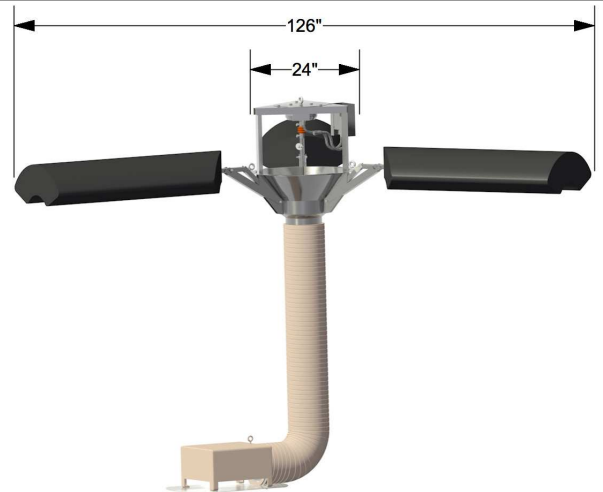


Figure 1: SB1250PWc