

SB2500PW

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 - NSF/ANSI Standard 61- T316 stainless steel construction. Foam-filled high-density polyethylene (HDPE) floats. Thermoplastic rubber intake hose. HDPE strainer. **The SB2500PW is NSF / ANSI Standard 61 Certified, includes NSF/ANSI 61, Annex G.** 

Minimum Access Opening / Machine Size / Weight - Machine can be assembled through 3 feet by 3 feet (92 cm by 92 cm) clear opening. Assembled machine is 16 feet (5 m) in diameter and weighs 850 pounds (380 kg).

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

Minimum Operating Depth - At depths below 5 feet (1.5 m), the impeller will be out of the water and the machine will stop circulating water. No damage to machine when run dry in shallow water.

Flotation System - Three floats in triangular pattern each with an adjustable float arm for proper vertical positioning, total float buoyancy of 1,400 lbs (660 kg).

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

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

PV Solar Panels: 3 X 80-watt photovoltaic solar panels. Battery storage for day/night operation.

Electronic Controller: Digital solid-state controller, mounted in weather-tight (NEMA 4X) enclosure with externally 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 DC voltage in reservoir, less than 36 VDC.

Fluid Intake Assembly - Intake hose bolted to bottom of structural assembly.

Intake Hose : 20 to 60 feet (6 to 18 m) available in 12-inch (30 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 Chlorine Boost System, (2) LED RPM Indicator, (3) Supplemental Power Kit, and (4) Wireless SCADA Kit.

Shipping Size / Weight -

- **Crates -** 87 inch W X 87 inch L X 65 inch H (2.2 m x 2.2 m x 1.7 m) / 1,500 pounds (680 kg)

Exact weight and dimensions varies dependent on machine configuration.

Life / Maintenance / Warranty - Expect 25-year life, minimal maintenance. Limited 2-year parts and labor warranty. Limited 25-year photovoltaic module manufacturer performance warranty and 10-year motor warranty.

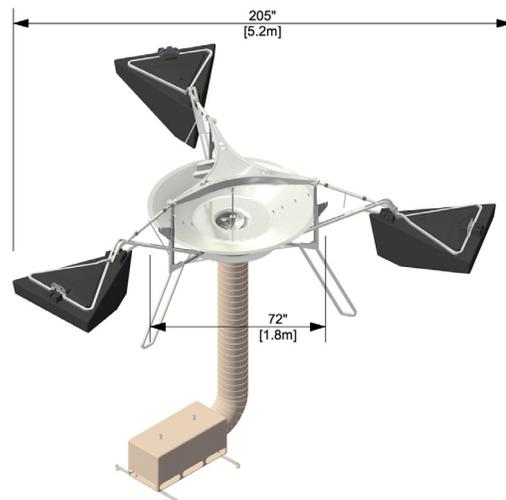


Figure 1: SB2500PW