

# Technical Data Sheet

## SB5000PW

**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 SB5000PW 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.

**Minimum Head Space -** 26 inch (0.7 meter) headspace is required.

**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 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.

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

**Intake Hose :** 20 to 60 feet (6 to 18 m) available in 16-inch (40 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 -**

- **Crate -** 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.*

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

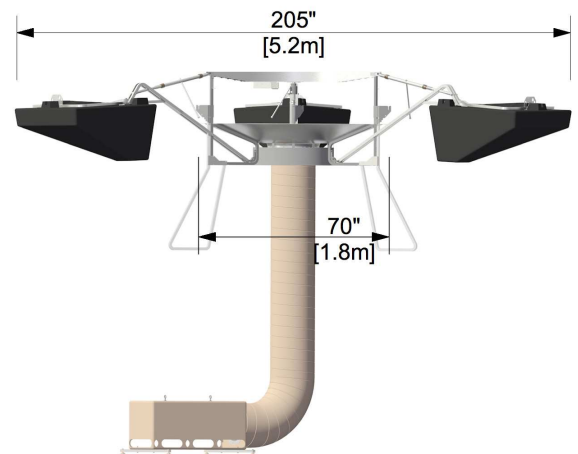


Figure 1: SB5000PW