


Technology Description:	Floating, solar powered, circulation equipment for potable water tanks and reservoirs. Day/night operation on solar only by utilizing a battery to store excess daytime power for nighttime operation.
Minimum Access Opening/ Machine Size/Weight:	Machine can be installed through a 3 feet by 3 feet (92cm by 92 cm) opening. Assembled machine is 16 feet (5 m) in diameter and weighs 800 pounds (360 kg).
Shipping Size/Weight:	Machine can be crated and shipped in a 87 inch (2.2 m) wide X 87 inch (2.2 m) long X 65 inch (1.7 m) high crate, estimated shipping weight is 1500 pounds (680 kg). Hose lengths greater than 40 ft (6 m) and pole mount solar panel stands may require additional crating.
Materials of Construction NSF/ANSI Standard 61:	 316 stainless steel construction. Foam-filled high-density polyethylene (HDPE) floats. Thermoplastic rubber intake hose. HDPE strainer. <b>The SB1000PW is NSF/ANSI Standard 61 Certified.</b>
Drive System:	High torque, direct drive (no gearbox), low voltage brushless D.C. motor.
Power Supply/Control System:	<i>PV Solar Panels, Battery and Electronic Controller are mounted on rack outside.</i>
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. Low voltage in reservoir, less than 36 VDC.
Rotating Assembly:	Removable assembly with easy access to impeller and impeller shaft.
Flotation System:	Three floats in triangular pattern with total buoyancy of 1,450 pounds (660 kg).
Fluid Intake Assembly:	<i>Intake hose bolted to bottom of machine structural assembly.</i>
Hose System	10 to 40 feet (3 to 30 m) available in 36-inch diameter (92cm) X 10, 15, or 20 feet (3m, 4.5m, or 6m) sections.
Intake Type	Horizontal plate with 12-inch (32cm) openings.
Intake Depth Adjustment	15 feet (4.5m) of field adjustment with three SS chains connected to hose coupling.
Intake Assembly at Bottom of Hose	48-inch (1.2m) diameter plate rests just above floor of reservoir. Horizontal flow into the intake hose is through 12-inch (32cm) openings above the plate.
Intake Depth Adjustment	<i>Self-adjusting for all depths up to 40 feet (12.2m).</i>
Chlorine Boosting	Chlorine boost hose, accessible at top of reservoir spans down and connects to intake for fast chlorine dispersion during in-reservoir boosting.
Minimum Water Depth:	At depths below 5 feet (1.5m), 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.
Accessories Available:	1) Portable Chlorine Boost System, (2) LED RPM Indicator (3) Supplemental Power Kit, and (4) Wireless SCADA Kit
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.