

Technology Description:	Floating, AC powered, circulation equipment for wastewater treatment and freshwater applications. Continuous operation on single-phase or three-phase AC power.
Flow Rates:	<i>Flow rates at full speed at 10 feet (3 meter) diameter.</i>
Direct Flow Rate - Day	700 gallons per minute (2,650 liters per minute).
Induced Flow Rate - Day	4,300 gallons per minute (16,300 liters per minute).
Combined Flow Rate	5,000 gallons per minute (18,950 liters per minute).
Machine Size/Weight:	Assembled machine is 16 feet (5m) in diameter and weighs 850 pounds (380kg).
Materials of Construction:	316 stainless steel construction. Foam-filled high-density polyethylene (HDPE) floats. Thermoplastic rubber intake hose. HDPE strainer. Concrete mooring blocks are encapsulated in HDPE.
Drive System:	High torque, A.C. motor and right angle gearbox (20:1) with wash down duty finish.
Power System:	<i>Requires single-phase (115-230VAC) or three-phase (230-460VAC) power. Follow all NEC codes, State and local regulations. (Not supplied by SolarBee)</i>
Wiring/Controls	Requires submersible industrial cable with inhibitors for UV protection. All switches, breakers, emergency stop buttons, or other controls shall be installed in accordance to all NEC, State, and local regulations. <i>(Not supplied by SolarBee)</i>
Rotating Assembly:	Removable assembly with easy attachment to motor and gearbox. Impeller handles 4-inch (10 cm) spherical solids. Oil-filled (food grade) teflon freeze sleeve with o-rings, 316SS shaft. Rotational indicator on shaft.
Flotation System:	Three floats in triangular pattern each with an adjustable float arm for proper vertical positioning, total float buoyancy of 1,450 pounds (660kg).
Fluid Intake Assembly - Option 1:	<i>Hose system bolted to bottom of structural assembly.</i>
Hose System	20 to 60 feet (8 to 18 meter) available in 16 inch (40 cm) diameter X 20 feet (6 m) sections.
Intake Type	Inverted bell shape strainer with 4-inch (10cm) holes.
Intake Depth Adjustment	Can vary from 0 to 60 feet (0 to 18 m). No depth adjustment necessary for fluctuations in water level. Weight and flotation of the 'J' bend of hose keeps intake above sludge or bottom of pond at all operating depths. Strainer can be chained up higher if desired.
Fluid Intake Assembly - Option 2:	Fixed horizontal plate bolted to bottom of structural assembly.
Intake Type	Fixed horizontal plate with 12-inch (31 cm) openings.
Intake Depth Adjustment	No adjustment necessary. Horizontal inflow from 25 in (64 cm) below distribution dish.
Fluid Intake Assembly - Option 3:	<i>See GF5000DM Dual Mix Features Sheet.</i>
Anchoring:	Tethered to shore with SS cable.
Ice Protection:	Freeze sleeve and positive pumping under distribution dish to maintain circulation.
Minimum Operating Depth:	31 inches (0.8 m) with fixed horizontal plate. No damage to machine or bottom of reservoir when run dry in shallow water.
Accessories Available:	(1) Chemical Injection Kit
Life/Maintenance/Warranty:	Expect 25-year life, minimal maintenance. Limited 2-year parts and labor warranty.