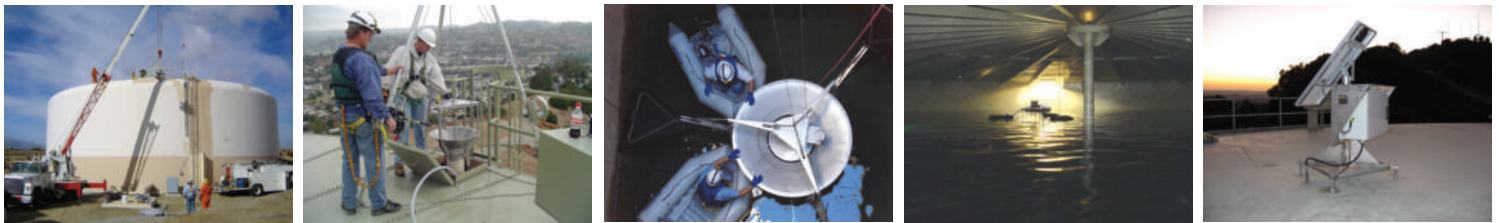
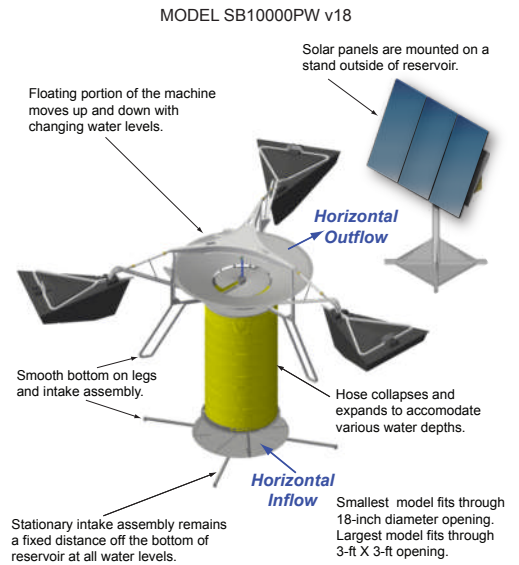
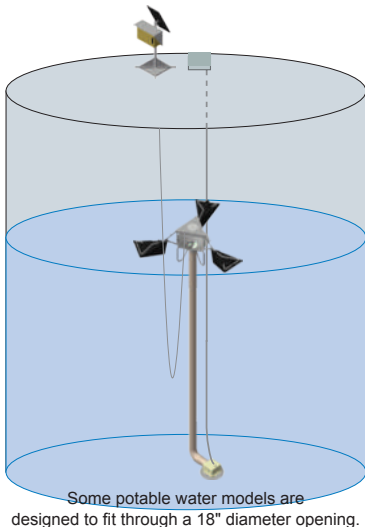


### Stagnation in Potable Water Storage Reservoirs Can Cause:

- Loss of residual chlorine or chloramine.
- Long water age, taste and odors.
- Excessive ice buildup in cold climates.
- Nitrification and high heterotrophic plate counts.
- Thermal stratification; even 0.1 C difference can inhibit mixing effects of normal inflow and outflow.



### SolarBee Benefits:

Various SolarBee Models Available	Models are available from <b>400 gpm to 10,000 gpm</b> , for handling volumes of <b>30,000 gallons to 40,000,000 gallons of reservoir size per SolarBee</b> . All models are constructed of <b>stainless steel</b> and <b>plastics</b> , and there are <b>no gearbox or motor oils</b> or other possible water contaminants. All electronics are powered by low DC voltage.
Near-Laminar Flow Pattern	The SolarBee <b>thoroughly mixes the entire reservoir, reaching all the dead spots</b> , even in large reservoirs with hundreds of support columns. <b>Breakpoint chlorination</b> can be accomplished by injecting chlorine into the SolarBee for complete chlorine dispersion.
Continuous, Inexpensive Operation	The SolarBee operates <b>day and night</b> on solar power, so there is <b>no energy cost</b> . The entire machine, including the brushless motor has an expected <b>25 year life</b> , with <b>no regularly scheduled maintenance</b> .
Self Adjusting for Reservoir Level	The SolarBee flotation system, together with the variable length intake hose, <b>self adjusts at all times for peak performance regardless of water depth</b> in the reservoir. No other mixing system does this.
Little or No Infrastructure Expense	Although the various models range from 10 to 16 ft in diameter when fully assembled, the SolarBee's design allows it to be brought into the reservoir through an access hatch and to be assembled inside the reservoir. <b>Some models are designed to fit through a 18 inch diameter opening</b> without disassembly. <b>Trained factory technicians perform the installations, there is no need to drain the reservoir and no infrastructure is needed.</b>
Materials of Construction	SolarBee circulators are constructed of materials that meet <b>NSF/ANSI Standard 61</b> for materials in contact with drinking water. NSF/ANSI Standard 61 certification.
Compared to Nozzle and Check Valve Systems	By definition, when you have low flow through a reservoir and need more mixing, then the <b>nozzle system will not have enough flow to be of much help</b> . And nozzle systems <b>don't work at all when the reservoir is taken offline</b> for chlorine boosting. Finally, nozzle systems create a <b>high energy loss</b> due to increased pumping pressures, and <b>affect flow patterns throughout the entire distribution system</b> .
Compared to Turbulent Mixers	<b>High speed turbulent mixers</b> have a very short distance of influence unlike the SolarBee which <b>mixes the entire reservoir</b> . The SolarBee has <b>far less electrical and maintenance costs</b> , and there is <b>no high voltage</b> in the reservoir. Also, the SolarBee has <b>stainless steel construction</b> instead of cast iron, and the SolarBee is <b>not subject to problems of cavitation or being run dry</b> .
Options Available	The SolarBee can be equipped with a chlorine injection system, with various solar and supplemental power kits and various optional communications systems.