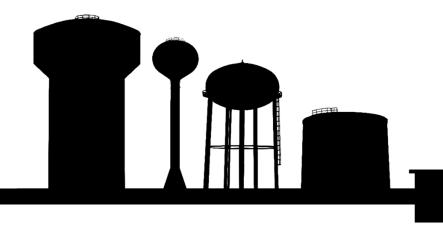


Mini Presentation

Tank Mixing Solutions



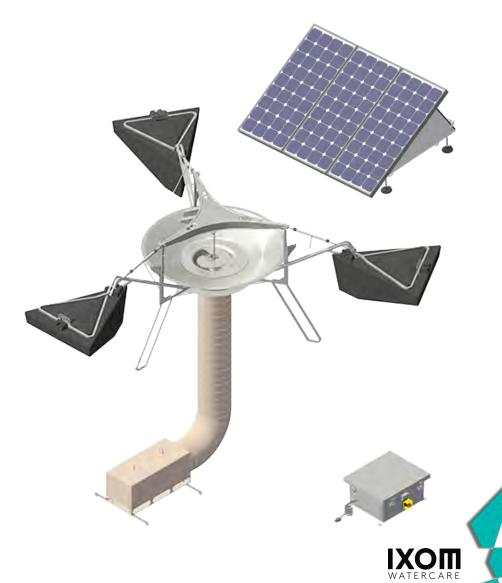


Mixing Systems For Any Tank Size/Type

- GS Series Submersible Electric
- GS Series Submersible Air-Powered
- SB Series Floating Solar-Powered
- GF Series Floating Electric







Advantages Of Tank Mixing

- Eliminate thermal stratification.
- Prevent stagnation.
- Unify water age.
- Stop short-circuiting.
- Reduce biofilm build-up.
- Increase contact time.
- Continuous THM removal.





Thermal Stratification

- Inhibits mixing.
- Accelerates loss of disinfectant residual.
- Creates inconsistent water age.





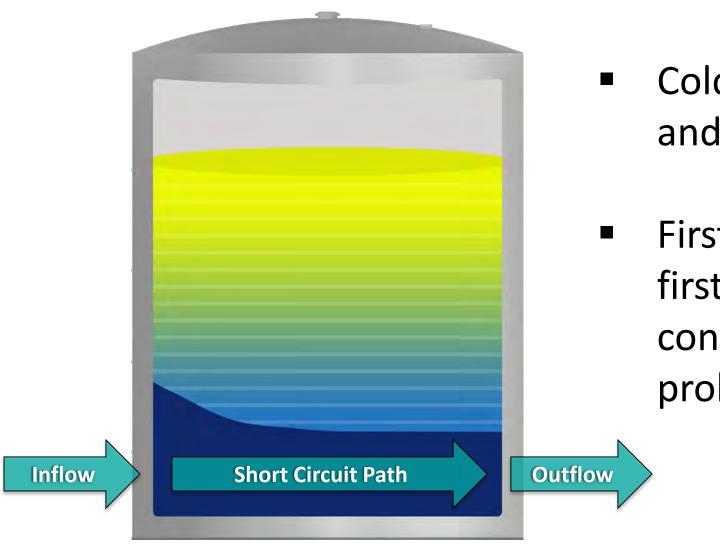
Water Layering

- Density increases toward the bottom due to temperature and pressure differences.
- Inflow water with higher chlorine residual usually falls to the bottom of the tank.





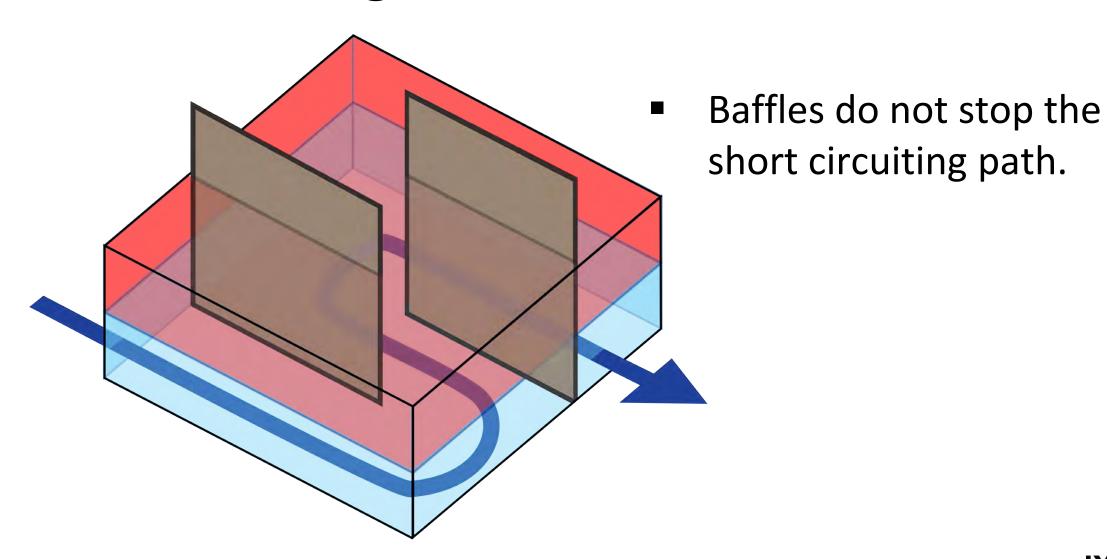
Short Circuiting



 Cold water stays at bottom and doesn't mix.

First water coming in is also first water going out contributing to water age problems.

Short Circuiting



Biofilms

More disinfectant needed to satisfy demand.





Courtesy Montana State University Center for Biofilm Engineering



GS SERIES- Electric Submersible Mixers

Effective. Efficient. Affordable.



Full Specifications, Videos, Case Studies, White Papers and more are available at:

https://www.ixomwatercare.com/resources



GS SERIES- Equipment Models







IXOM

GS Series Mixers-Affordable



GS SERIES- Quick Overview

- Full depth, continuous tank mixing.
- Impacts critical tank boundary layers.
- CFD modeling available for specific tanks.
- Compatible with ResidualHQ
 Disinfectant Management and THM
 Removal Systems.

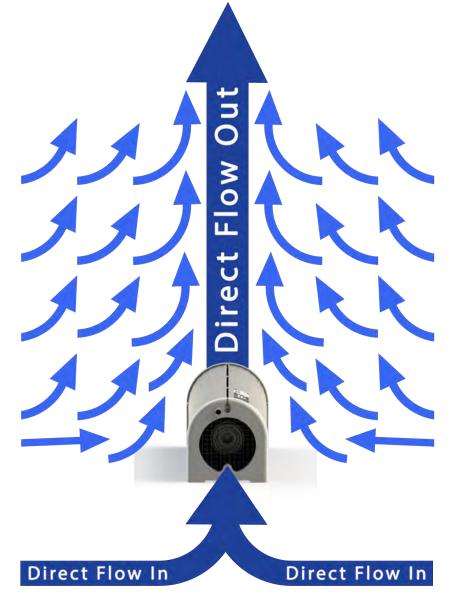






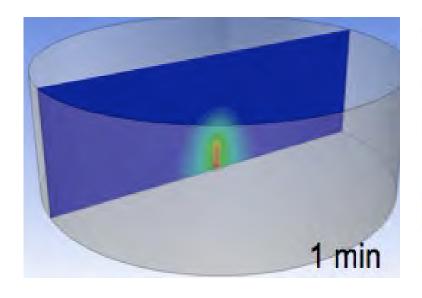
GS SERIES- Sheet Flow

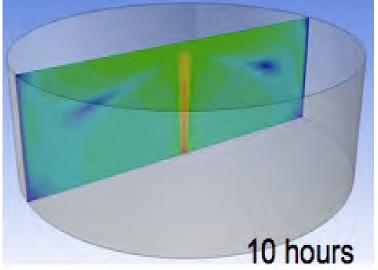
- Direct flow leaves the mixer as a "sheet" of water and drags other water with it.
- Visible surface flow can be observed above the mixer.
- Designed for continuous operation at full speed and full flow.

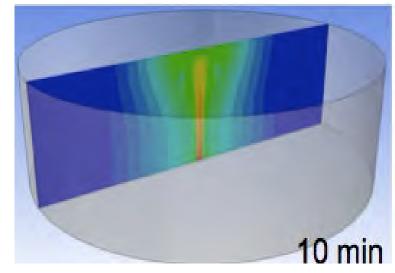


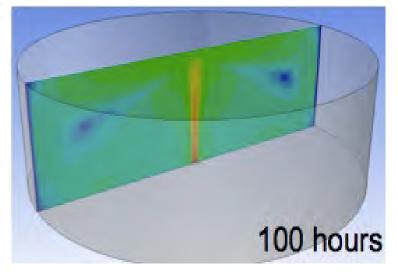


GS SERIES- CFD Modeling











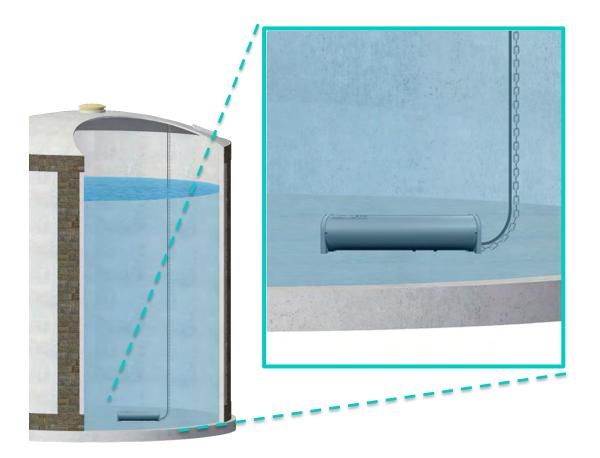
GS Series Mixers- Ease Of Installation

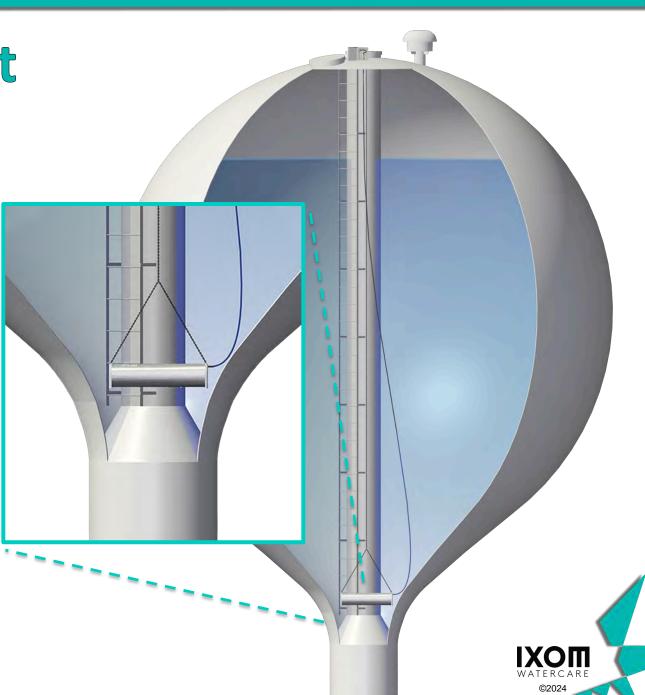


- Installs through a 12-inch diameter or larger hatch.
- Typically installed under a hatch.
- No tank entry required.
- No need to drain the tank.
- Smooth running, will not move around or fall over in the tank.
- No low-level switch needed.

GS SERIES- Deployment

On-Floor or Suspended



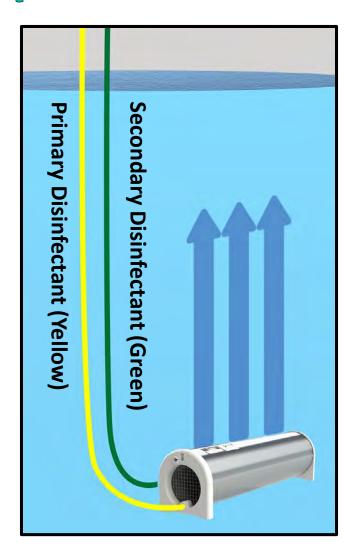


GS SERIES- Disinfectant Boost Capable

For Chlorine and Chloramine

Primary and Secondary disinfectant injection sites available for sodium hypochlorite and ammonia.

- Thorough disinfectant dilution, distribution.
- Effective for breakpoint chlorination.
- Valve and hose to ground level.
- Quick Disconnect.



GS SERIES- Power Requirements

Standard

120 VAC 1 Phase

Optional

- 240 VAC 1 Phase
- 460 VAC 3 Phase





GS SERIES- Control Panel

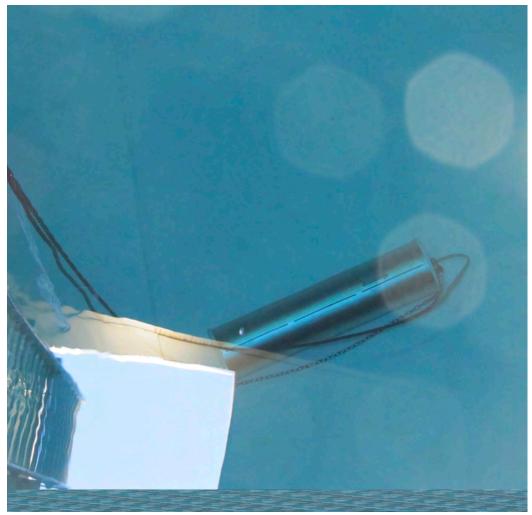
- SCADA outputs
- Door mounted amperage readout
- NEMA 4 enclosure
- Available for both 120VAC & 240AC





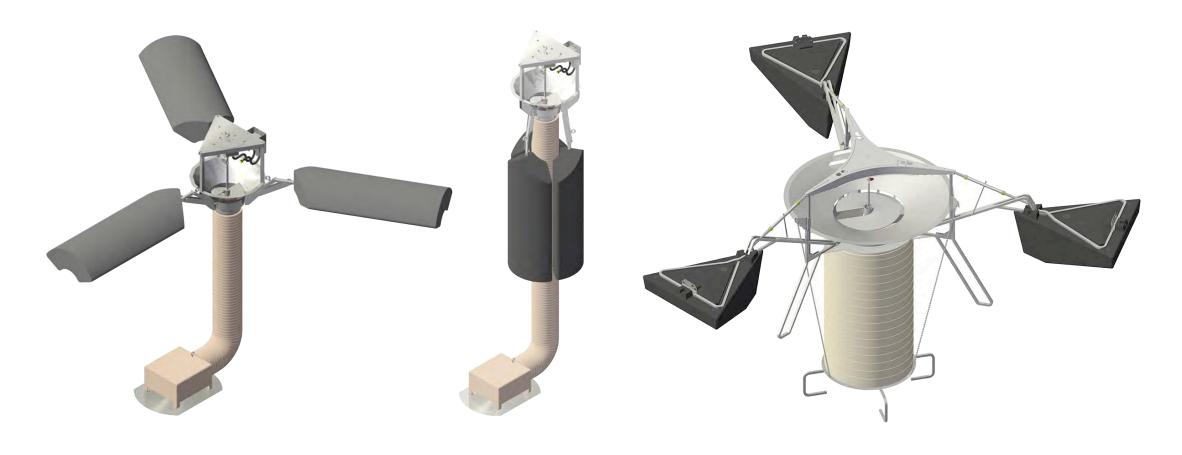
GS SERIES- In The Tank







SB & GF SERIES- Floating Potable Tank Mixers

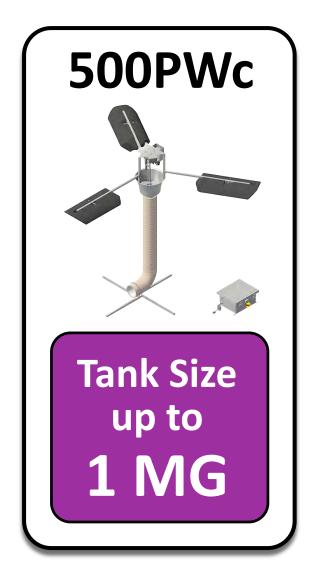


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SB & GF SERIES- Solar, Electric or Both!









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SB SERIES- Low Profile PV Arrays

Mount on almost any style roof including geodesic domes.







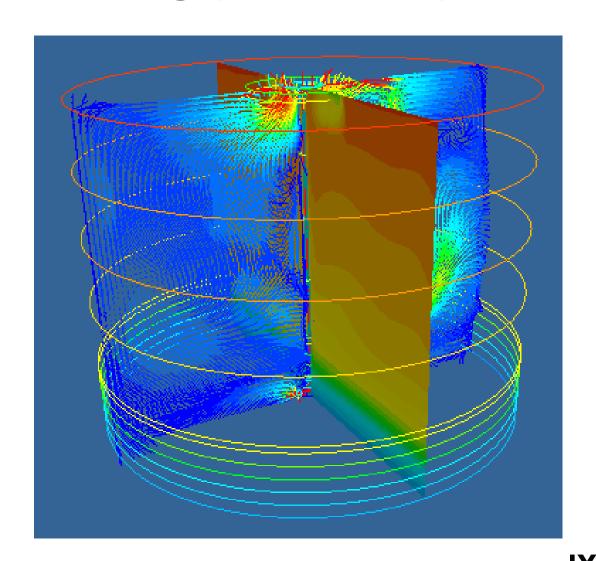
SB/GF SERIES- CFD Modeling (0.0 Hour)

5MG Steel GST

Diameter: 170 ft.

Height: 30 ft.

Tank is in a stratified condition.



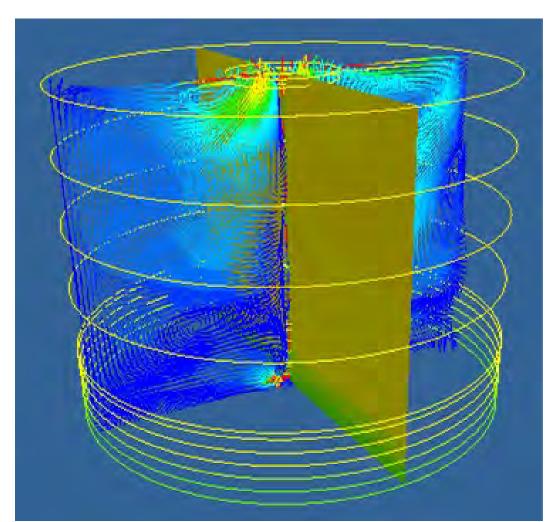
SB/GF SERIES- CFD Modeling (1.3 Hours)

5MG Steel GST

Diameter: 170 ft.

Height: 30 ft.

Tank is in a well-mixed condition.



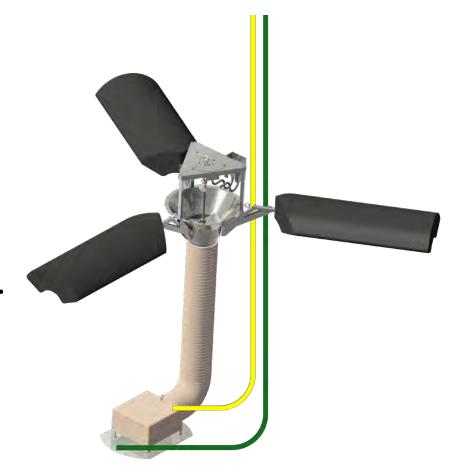


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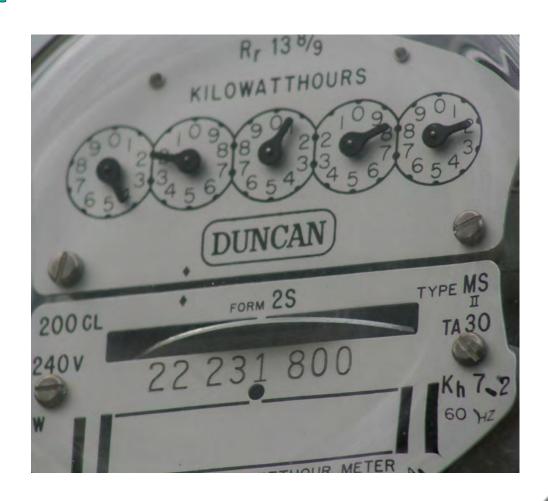
SB / GF SERIES- Power Requirements

SB Series

- Solar Capture w/ Battery Backup (Standard)
- 120 VAC 1-Phase Supplemental Power Kit (Optional)

GF Series

120 VAC 1-Phase (Standard)





SB / GF SERIES- Controller

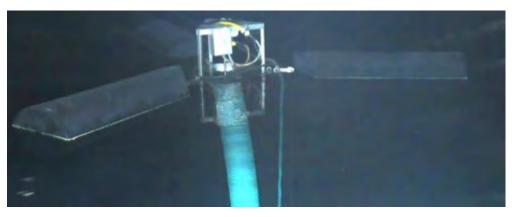
- SCADA outputs
- NEMA 4X enclosure
- Available for solar, electric or a combination of both





SB/GF SERIES- Placement









Equipment Placement & Service Crews





Contact us to learn more!

+1 866-437-8076 www.ixomwatercare.com

