



# BioDi™ Aerobic Digester

**BioDi™ Aerobic Digester** addresses low oxygen and nutrient issues in large bodies of water.

Types of water ideal for BioDi to promote aerobic digestion:

- Water with high rates of fish kill due to oxygen starvation
- Lakes with accumulated organic matter/muck
- Water that need bio-dredging
- Wastewater
- Larger bodies of water

BioDi™ can be bundled with BioHaven® Floating Islands or with BioFil™ Filters for complete solutions to water quality problems.

The BioDi is designed to be deployed under the water, which has many advantages for large bodies of water:

- Safe from high volume flows with surface debris
- Can be deployed so as not to impede navigation
- Ability to position at any depth optimizes efficiency for target pollutants and specific water body conditions
- Can operate year round and safe from ice

## BioDi Aerobic Digester Sizes

Height	Diameter
5 ft	7 1/2 ft
5 ft	5 ft
2 1/2 ft	5 ft

How the BioDi works:

- Air diffusion is incorporated at the bottom to provide oxygen to support microbial metabolism.
- Rising bubbles facilitate mass transfer.
- Aeration may be cycled to provide periods of anaerobic conditions for denitrification.
- Existing aeration systems can be used or new systems can be provided.
- Flow channels in the matrix facilitate mass transfer of oxygen and nutrients, removal of biofilm floc from the digester, and optimal hydraulic conditions.
- It is an active system -- electricity is required.

