

LAGOON COMMANDER

Low Energy Pond/Lagoon Mixer



- Utilizes only 3 HP (2.2kW) of energy per 2+ acres of water
- Mixes entire water column below the surface
- Forms a vertical mix from the surface
- Eliminates sludge gas in order to eliminate odor
- Improves water quality
- No moving parts underwater
- Minimal maintenance

The Reliant ***LAGOON COMMANDER*** Pond/Lagoon Mixer continuously, and slowly, moves water along the bottom of a lagoon/pond, continually mixing the entire water column using a minimum of energy. When compared to standard surface aerators or directional mixers, the ***LAGOON COMMANDER*** is more efficient, less costly to operate, and requires minimal maintenance.

The ***LAGOON COMMANDER*** utilizes 1- 3 HP (2.2 kW) regenerative blower. Utilizing a patented coarse bubble airlift and baffling system, the ***COMMANDER*** continuously moves and mixes the water below the surface for 17 acre feet of water (depth x surface acreage) of a pond or lagoon. Designed for bodies of water with less than 20 feet (6 meters) of depth, a single unit will have the entire body of water moving within 30 minutes of startup.

For closed bodies of water where added dissolved oxygen is not required, complete mixing of the water will reduce, and possibly eliminate odors, reduce or eliminate chemical addition, provide a total mix of the nutrients in the water, thin algal populations, the elimination of blue green algae, and keep the body of water from freezing. Common applications are Concentrated Animal Feed Operations (CAFO), drinking water and irrigation ponds/lagoons, spray-field lagoons, storm water lagoons, equalization lagoons, and any body of water where a total mix will be beneficial.

LAGOON COMMANDER Lagoon/Pond Mixer

Features

- Only 3 HP (2.2 kW) total energy use
- No propellers or shafts underwater to foul
- No belts or gearboxes to break or require maintenance
- Non-corrosive materials of construction—Anodized aluminum, HDPE, Stainless Steel

Benefits

- Continuously moves the lagoon/pond water along the bottom, causing vertical mixing, for complete de-stratification, and odor elimination, algae bloom reduction, blue-green algae elimination, and providing a total mix.
- Total suspension of nutrients for row crop and spray field application
- Reduced energy costs
- Practically maintenance free for years
- Eliminates trapped nitrogen, ammonia and other sludge gases

ADVANTAGES OVER OTHER LAGOON MIXING SYSTEMS

- Less energy usage - per area covered.
- Over 17 million gallons (57,970m³) of water movement in a 24 hour period.
 - Guarantees continual water turnover and de-stratification throughout the lagoon – mixes algae and eliminates blue-green algae stratification.
 - Moves ALL the lagoon's nutrients in a slow, non-violent manner – allowing for nutrient withdrawal from any location and depth in the pond/lagoon.
- No annual motor maintenance—oil changes, belt changes, etc. The only maintenance on a *LAGOON COMMANDER* is to clean one air intake filter annually.



Maintenance

Blower intake filter is stainless steel and only requires cleaning once or twice per year, not replacement.

The blower is warranted for 3 years.

ASK US ABOUT OUR MUNICIPAL/INDUSTRIAL LEASING PROGRAM

RELIANT

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