TITUSWWS.COM

TITUS® TWISTER® FL
FLOATING AERATOR

Lagoon Aeration EVOLVED

TITUS®
WASTEWATER SOLUTIONS, INC.

THE CHALLENGES

Many municipal, industrial and commercial facilities encounter challenges associated with the management of wastewater lagoons and large wastewater tanks.

Sludge accumulations, odors, algae growth, mixing challenges, weather-related equipment issues, and overall poor lagoon/large tank performance can result in extremely high operational and maintenance costs.

THE SOLUTION

The Titus Twister FL Floating Aerator delivers efficient and substantial aeration and mixing, mechanical breakdown of solids, and the proper aerobic conditions for wastewater and water treatment.

"We concluded that this system was a fraction of the cost of others and would work better than those similar to what we were replacing."

--Darin Dood, City of Lakeview MI

EXCEPTIONAL PERFORMANCE AND INCOMPARABLE VALUE

The TITUS Twister FL employs our passion, experience, and patented cutting-edge technology to deliver superior results, for lower costs, and less effort.

They are pre-engineered. Specifications, sizing and technical support are available and easy to apply to your projects.

WHAT MAKES THIS APPROACH TO AERATION SO SUCCESSFUL

- Delivers greater aeration and more effective mixing
- Works even in extreme low temperatures
- Provides greater area of influence
- Lasts longer than other comparable products on the market
- Easier to install and operate
- Requires less maintenance
- Adapts to a wide range range of potential applications
- Provides tremendous and demonstrable savings in time and costs

HOW IT WORKS

1. Air is generated by a shore-based blower, housed in a weatherproof, sound absorbing enclosure.

2. The air is delivered via piping from the blower to the Twister FL head, down through the manifold.

3. The perforated, fine bubble diffuser creates air bubbles, which transfers oxygen into the liquid.

4. A vortex and air lift column is created within the oxygen transfer chamber which forces liquid and solid materials to draw upwards towards the high velocity discharge slots.

5. The aerated and mixed liquids and any solids are redirected downward via the recompression float head.

6. Liquid and solid materials are continuously drawn in through intake ports located at the bottom (or sides) of the oxygen transfer chamber, resulting in constant suspension of materials within the structure, as well as the large area of influence.

Our three lagoon water treatment facility had been without required, proper aerators for several months. ON December 15, 2022, the Titus crew, to my amazement, working over six hours in near zero-degree temperatures, was able to break through the ice with a wrecking ball and a crane-operated auger. They installed an entire aerating system with help from a crew of electricians they had contracted from Denver (six hours away). The level of coordination and cooperation required was extremely high, and everything went off with almost no hitch. At just about nightfall at 4:30 pm, the aerators began functioning."

--Fr. Drew, St. Stephen's Indian School

APPLICATIONS

- SLUDGE ACCUMULATION
- ODOR ISSUES
- ALGAE GROWTH
- HIGH PERFORMANCE MIXING
- MUNICIPAL WATER/WASTEWATER SYSTEMS
- INDUSTRIAL, COMMERCIAL & RESIDENTIAL

ADVANTAGES

Versatile and Adaptable to Many Applications

Efficient and Economical Operating Costs

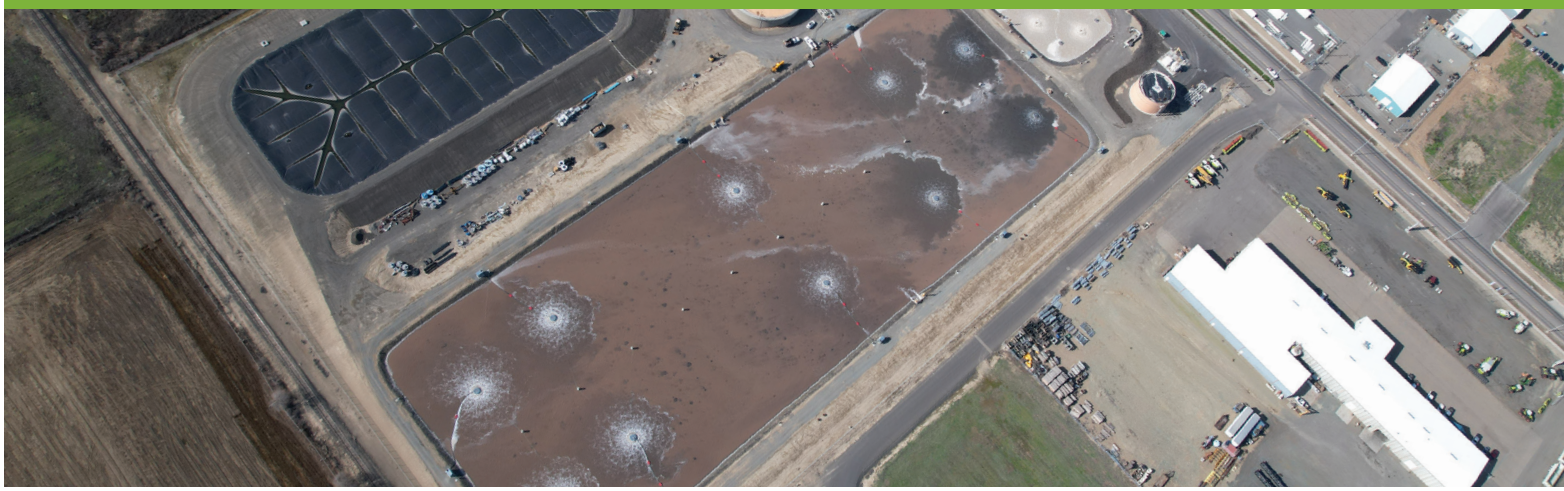
Effective in Extreme Cold Weather

Proven Performance (Third Party Tested)

Low Maintenance with No Moving Parts in Water

Safe, Centralized Shore-Based Power

Minimal Installation/Operating Requirements



TITUS®
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