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TITUS® TWISTER® MIXING AERATOR

Odor, FOG & Ragging Control EVOLVED

TITUS® WASTEWATER SOLUTIONS, INC.

THE CHALLENGES

High levels of hydrogen sulfide (H2S) gasses, acids, and other chemicals produced from untreated municipal and industrial wastewater can cause odors, corrosion and other safety concerns, as well as costly maintenance, repairs, and replacements of equipment.

Also, F.O.G. (fats, oils, and greases), inorganic solids, pharmaceuticals, and waterborne pathogens will impact the overall "health" of your collection systems.

Problematic waste streams from breweries, restaurants, food processing plants, and industrial discharges create challenges to entire collection systems and wastewater treatment plants.

THE SOLUTION

The TITUS Twister provides chemical-free, effective mixing, mechanical breakdown of solids and the proper aerobic conditions for wastewater pre-treatment.

"The smell is gone! Thank you to those who made the decision to create a plan and execute it, using a TITUS Twister, eliminating the stench in our neighborhood!"
--M. Testerman, Resident, Bend OR."

EXCEPTIONAL PERFORMANCE AND INCOMPARABLE VALUE

The TITUS Twister 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 IN COLLECTION SYSTEMS SO SUCCESSFUL

- Air Lift Technology
- Perforated membrane diffuser
- HDPE blades
- Stainless steel components
- High quality regenerative blowers
- Protective enclosures
- Provides greater aeration and more effective mixing
- Eliminates odors without use of chemicals
- Designed and manufactured for durability
- Easy to install and operate (up and running in as little as an hour)
- Requires less maintenance than comparable solutions
- Provides tremendous and demonstrable savings in time and costs
- TITUS Twisters are available as Diffused Air Only or Ozone Enhanced systems

HOW IT WORKS

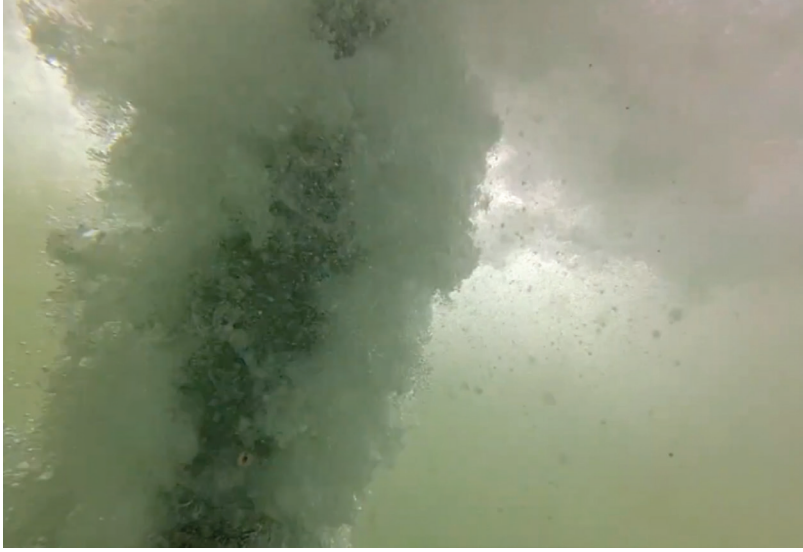
1. Air is generated by a properly sized, regenerative blower located in the enclosure.

2. The air is delivered via EPDM hose or stainless steel piping down through the manifold. For enhanced odor control, ozone may be introduced to the water column during this stage of the process.

3. Air exits the manifold through narrow perforations in the membrane diffuser, creating fine air bubbles that transfer oxygen into the liquid.

4. A vortex and air lift column is created within the barrel which forces liquid and solid materials to draw up into the static HOPE shear blades and flow deflector plate. Solids are broken up and directed back into the cycle.

5. Liquid and sold materials are continuously drawn in through the ports located at the bottom of the barrel, resulting in constant suspension of materials within the structure.



TITUS TWISTER DIFFUSED AIR MODELS

For FOG, Ragging and Moderate Odor Challenges

The TITUS Twister Diffused Air models are designed to resolve moderate odors, eliminate FOG and prevent ragging and blockages. Streamlined designs make it easy to size, specify and install.

Standard Twister heads, regenerative blowers, and a variety of enclosures are readily available. Installation, operation and maintenance are straightforward and simplified.

TITUS TWISTER OZONE ENHANCED TT-SERIES

For FOG, Ragging and Extreme Odor Challenges

The TITUS Twister TT-Series models are the prefect solution for applications with extreme or varying odor issues.

TT-Series systems are capable of providing ozone output ranging from 10gph (grams per hour) to 40gph. These ozone enhanced systems include Primary Modules, which are adjustable and Secondary Modules, which provide additional ozone as needed.

APPLICATIONS

- PUMP STATIONS
- LIFT STATIONS
- WET WELLS
- PRETREATMENT MANHOLES
- WASTEWATER TREATMENT PLANTS
- DECENTRALIZED WASTEWATER SYSTEMS
- OTHER LOCATIONS REQUIRING EFFICIENT AERATION AND/OR MIXING

ADVANTAGES

Reduces Odors

Resolves Fat, Oil and Grease Issues

Prevents Ragging and Blockages

Decreases Corrosion

Keeps Solids Suspended

Easy To Install, Operate, and Maintain

Eliminates or Reduces the Need for Chemicals

Extends Life Cycle of Pumps and Equipment

AIR SOURCE CONNECTION OPTIONS

EDPM Hose

Stainless Steel

ENCLOSURES

Fiberglass

Aluminum

Stainless Steel

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