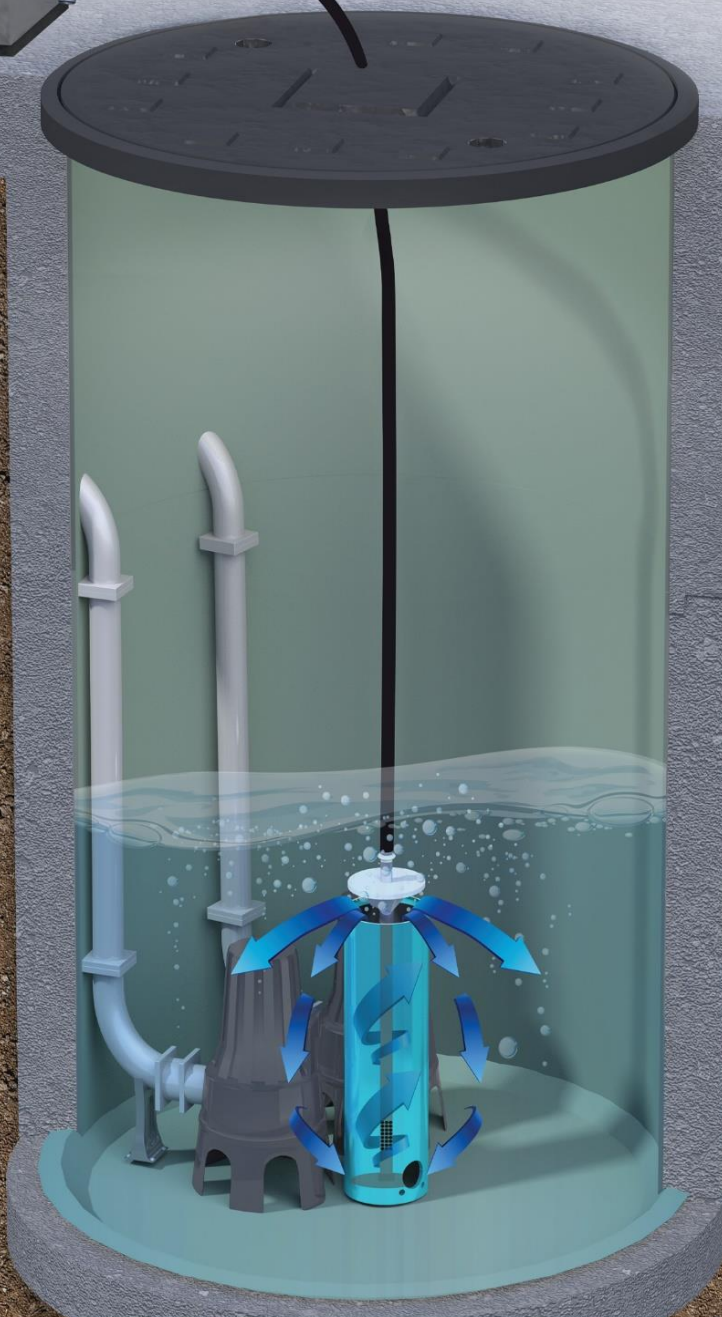




# TITUS® TWISTER®

MIXING AERATOR

CHEMICAL FREE ODOR AND F.O.G. CONTROL



PATENTS:  
US9533900  
CA2909759A1



[www.titusig.com](http://www.titusig.com)

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# TITUS® TWISTER® MIXING AERATOR

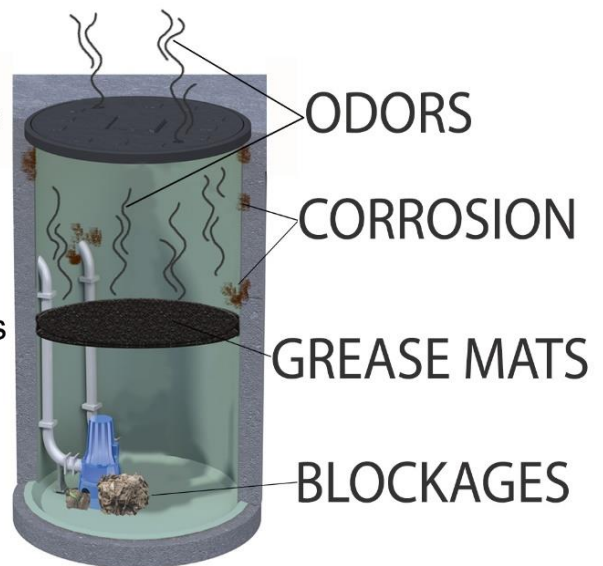
## THE CHALLENGE

Many sewer agencies face the challenge of maintaining collection systems.

High levels of hydrogen sulfide (H<sub>2</sub>S) gases, acids and other chemicals produced from municipal and industrial wastewater, if left untreated, can cause odors, corrosion and other safety concerns.

In addition, fats, oils, greases (F.O.G.), inorganic solids, pharmaceuticals and water borne pathogens impact overall "health" of collection systems.

Problematic waste streams from breweries, restaurants, food processing plants, and industrial discharges can wreak havoc on entire collection systems and wastewater treatment plants.

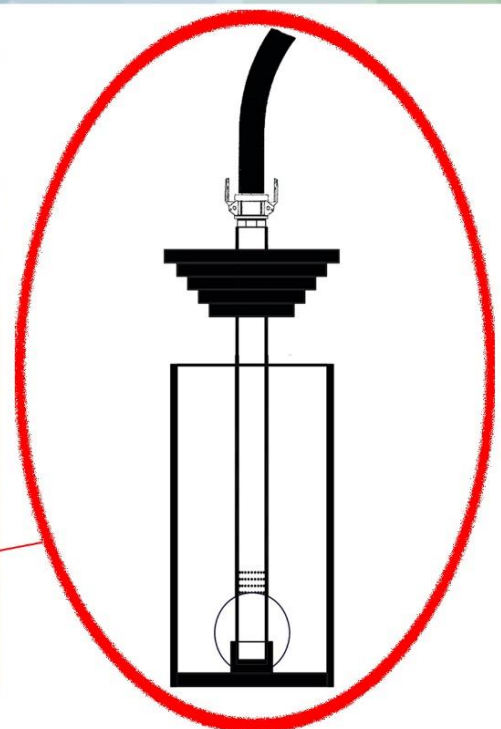
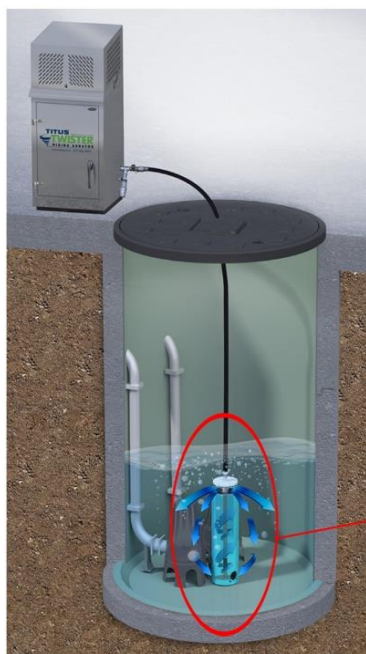


## THE SOLUTION

### The TITUS® Twister® Mixing Aerator

incorporates Air Lift Technology with specially designed HDPE blades, stainless steel components, high quality blowers and protective enclosures.

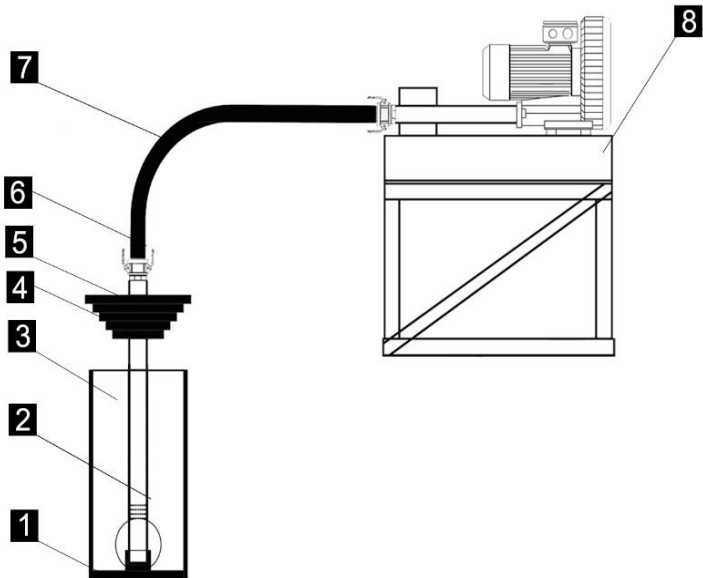
The TITUS® Twister® provides **CHEMICAL FREE**, effective mixing, mechanical breakdown of solids, and the proper aerobic conditions for wastewater pre-treatment.



# THE FEATURES

The TITUS® Twister® Mixing Aerator is one of the most efficient and effective **CHEMICAL FREE** mixing aeration systems available to the wastewater industry. The TITUS® Twister® is engineered to improve wastewater system performance with state-of-the-art design, easy installation and multi-functionality impact.

- |                                                |                                                   |
|------------------------------------------------|---------------------------------------------------|
| 1) Stainless Steel (304) Ballast Plate         | 5) HDPE Round Horizontal Flow Deflector           |
| 2) Stainless Steel (316) Machined Air Manifold | 6) Stainless Steel (316) Hose Cam Coupling        |
| 3) C900 PVC Barrel                             | 7) EPDM Reinforced Hose or Stainless Steel Piping |
| 4) HDPE Triangular Static Shear Blades         | 8) Aluminum or Stainless Steel Enclosures         |



## ENCLOSURE OPTIONS



### Option 1:

**For Diffused Air Systems**  
Aluminum, Powder Coated Finish, Wall or Floor Mount, Removable/Washable Filter



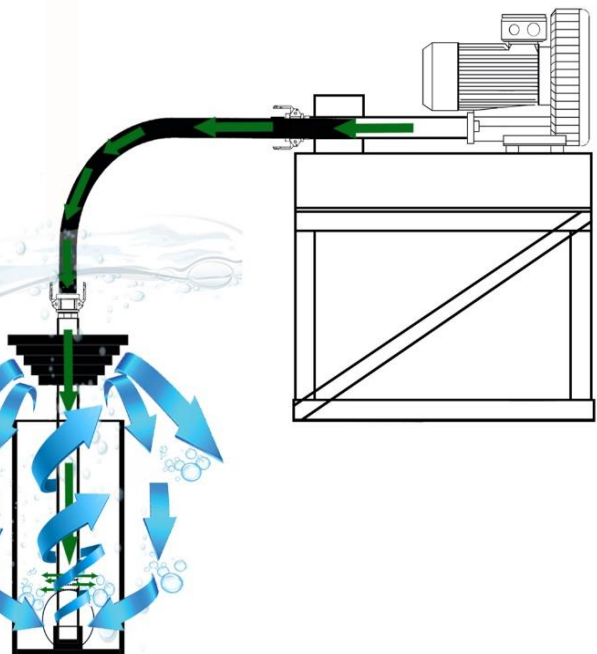
### Option 2:

**For Diffused Air OR Ozone Enhanced Systems** Stainless Steel, Floor Mount, Lockable & Secure, Climate Controlled, Removable/Washable Filter

Enclosures available with optional stands for elevating

# HOW IT WORKS

- Air is generated by a properly sized, regenerative blower, located in the Enclosure.
- 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 phase of the process.
- Openings in the manifold create air bubbles, which transfer oxygen into the liquid.
- Within the barrel a vortex and Air Lift column is created which forces liquid and solid materials up, into the static HDPE Shear Blades and Flow Deflector Plate. Solids are broken up and directed back into the cycle.
- Liquid and solid materials are continuously drawn in through ports located at the bottom of the Barrel, resulting in constant suspension of materials within the structure.





# Featuring



## CHEMICAL FREE ODOR & F.O.G. CONTROL

The **CHALLENGE** is managing unpleasant odors.

The **SOLUTION** is **TITUS® Twister® Mixing Aerator Ozone Delivery System**.

The TITUS® Twister® Mixing Aerator Ozone Delivery System utilizes a corona discharge method to produce ozone from ambient air.

The ozone produced is effectively delivered into liquid waste, neutralizing odors.

### DR SERIES

Our standard Ozone Delivery System, the "DR" Series, is capable of generating up to 7 gph (grams per hour). Effective on typical collection system conveyance structures.

### TS SERIES

Our more robust Ozone Delivery System, the "TS" Series, is capable of generating 10 gph (grams per hour)...or more! Complete systems available including various enclosure options.

**Every Twister® Ozone Delivery System is designed Project Specific!**

- Corona Discharge Generation Technology
- Secure Enclosures for Blowers, Ozone and Full System
- Temperature and Humidity Climate Control Units
- Safety Monitoring Devices
- Adjustable Ozone Sensors
- And more...



## TITUS® TWISTER® APPLICATIONS

- Odor & F.O.G. Control
- Disinfection
- Wastewater & Stormwater
- Pump and Lift Stations
- Pretreatment Manholes
- Wastewater Treatment Plants
- Decentralized Wastewater Systems

## TITUS® TWISTER® ADVANTAGES

- Addresses fat, oil and grease issues
- Prevents corrosion
- Reduces odors
- Easy to maintain...reducing costs
- Efficient transfer of dissolved oxygen
- Keeps solids suspended
- Extends life cycle of pumps and equipment

MANUFACTURED IN USA BY:



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**Contact us for opportunities to join the TITUS® team as a TITUS® Twister® Mixing Aerator Distributor!**