

Monsal* advanced digestion technology (ADT) air mixing

high efficiency mixing for sludge storage tanks

overview

All organic waste treatment facilities use a significant number of buffer tanks. Maintaining these tanks, minimizing deposition and ensuring mixing of the tank contents represents a significant operations cost in terms of energy consumption and maintenance.

The Monsal ADT Air Mixing system (Figures 1 and 2) offers a simple, low energy, highly efficient mixing system that can either be installed with a new build or retrofitted to existing tanks.

Using the simple principle of drawing air from outside a tank, compressing and injecting it through a series of nozzles sequentially, high mixing energies can be applied to local zones within a tank ensuring rigorous local mixing at low energy consumption.

benefits

Monsal ADT Air Mixing systems offer the following benefits:

- High active volumes >90%
- Fully mixed within 2 hours
- Dry solids concentrations up to 8%
- Simple and easy to maintain
- All maintenance external to tank
- Low mixing energies (1.5 W/m³ – 2.0 W/m³)



Figure 1: Monsal ADT Air Mixing System

- Low power consumption
- Smaller electrical infrastructure requirements
- No internal moving parts
- Easy maintenance and operation.

applications

The Monsal ADT Air Mixing system can mix a wide range of tank geometries and dry solids concentrations including:

- Tank depths from 2m to 15m (7 ft. to 49 ft.).
- Any roof configuration,
- Floor mounted for easy access
- Remote or local tanks
- Retrofit applications

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Figure 2: Monsal ADT Air Mixing System

high efficiency mixing

With increasing momentum toward energy neutrality, the energy used to mix sludge tanks becomes an area for improvement.

The Monsal ADT Air Mixing system can achieve high active volumes with low energy inputs – leading to lower operational costs and savings on electrical infrastructure.

improved performance

Modern wastewater treatment plants require a number of process plant operations, gravity belt thickeners, chemical dosing, centrifuge feed conditioning, all of which work optimally with consistent feed.

Effective mixing of buffer tanks ensures homogenization of sludge concentrations enabling downstream processes to be optimized.

In addition, as solids concentrations are increased, it is increasingly important to prevent settlement of solids within process tanks. The Monsal ADT air mixing system achieves this with minimal energy input.

more information

If you would like to learn more about how SUEZ can provide an energy efficient mixing system for your sludge tanks, contact your local representative or visit us at our website www.suezwatertechnologies.com.