

# Monsal\* advanced digestion technology (ADT) air lift

## effective desludging of sludge tanks

### overview

Solids settlement in clarifiers removes primary sludge to be sent to anaerobic digestion or humus sludge prior to trickling filters. The settlement process is critical in wastewater treatment. While clarifiers are effective at separating and concentrating solids, removing the concentrated solids from the bottom of the clarifier offers a technical challenge.

The traditional solution for desludging the clarifiers are to manually remove or to pump out the solids. These options are labor intensive as part of a regular operation or maintenance program.

The Monsal ADT Air Lift (Figures 1 and 2) desludging system offers an alternate solution. The Monsal ADT Air Lift automatically desludges up to four clarifiers in parallel with low energy and low maintenance required. The Monsal ADT Air Lift system has no internal moving parts.

### benefits

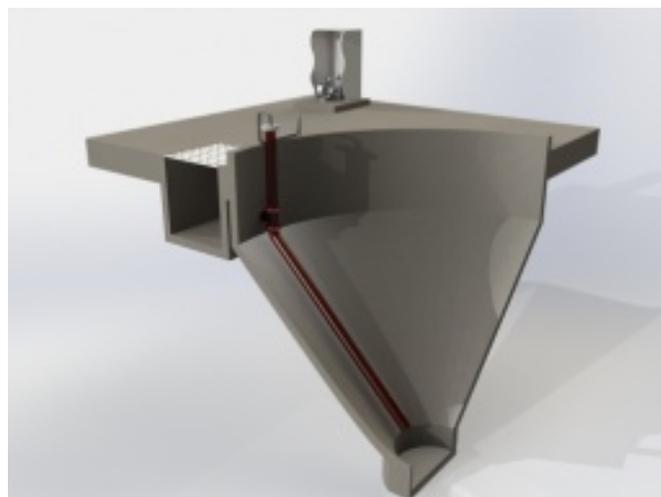
Monsal ADT Air Lift systems offer the following benefits:

- Service up to four tanks per system.
- Able to desludge both primary and trickling filter sludge.
- Simple and easy to maintain as all maintenance is done externally at the ground level.
- Low energy and low maintenance required.
- Fully automatic.
- Simple to install with a worry free design.

Find a contact near you by visiting [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com) and clicking on "Contact Us."

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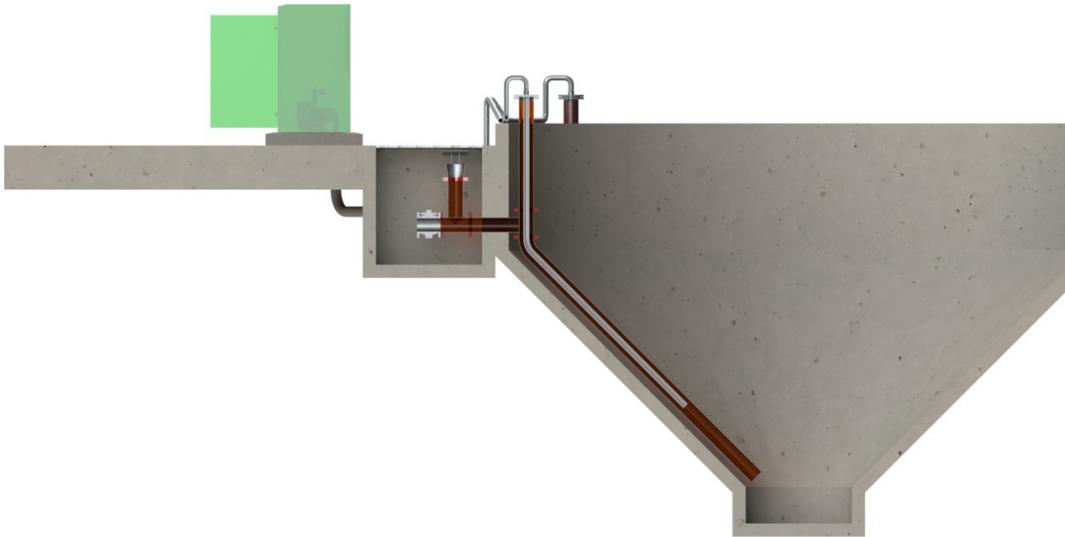


**Figure 1: Monsal ADT Air Lift Desludging System**

### applications

The system is designed for worry free operation and serves a number of key applications:

- Clarifiers at up to 5% dry solids.
- Primary clarifiers and clarifiers from trickling filter sludge.
- Desludging that requires automated process with negligible operator input.



**Figure 2: Monsal ADT Air Lift System Schematic**



**Figure 3: Monsal ADT Air Lift installation**

### simple and effective

The system automatically injects air into the sludge withdrawal pipe to create a hydraulic gradient and automatically remove slugs of thickened sludge from the bottom of the tank.

The system can be adjusted to vary the rate of desludging depending on tank, loading and circumstances.

### minimal maintenance and operation

Designed to be plug and play, the system uses a single rotary vane air compressor to inject air in to the desludging pipework. Oil free and with exceptionally low noise characteristics this provides a simple and reliable alternative to pump systems.

With a dedicated control panel and cost effective spare parts, the maintenance is minimal. With hundreds of operational installations the Monsal ADT air lift system is renowned to operators to require virtually no time input.

### more information

If you would like to learn more about how SUEZ can provide automated sludge removal to your clarifier, contact your local SUEZ representative or visit us at our website [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com).