



# Flowrox GeoBox™

Flowrox GeoBox™ is a roll-off geotextile filtration and dewatering unit. It is specifically designed for dewatering of waste and process sludges and filtration of waters with high solids content. GeoBox™ enables easy and cost-efficient transportation of solids or concentrated sludge.

➤ Flowrox GeoBox™ is based on sludge or water with flocculated solids being pumped into a geotextile bag that effectively retains the solid fraction while allowing water to pass through.

A water-tight floor construction with a drain valve enables closed and clean filtration and dewatering process. For cold climate the unit can be isolated and heated. Flowrox GeoBox™ is compatible with Flowrox Smart Solutions™.

Flowrox GeoBox™ is suitable for:

- Sewage sludge dewatering
- Tailings dewatering
- Concentration of oily sludge
- Filtration and dewatering of precipitated solids and impurities, clay, sand, and other fine particles

➤ **Chemical Dosing and High Performance Pumping**

Flowrox high performance Packaged Pumping Systems™ and transfer pumps complete the GeoBox™ filtration/dewatering unit.

➤ **You Can Achieve Over 90 % Yearly Cost Savings**

Geotextile filtration can remarkably reduce the costs related to waste handling. Depending on the quality of the sludge you can remove up to 90 % of water. To avoid major investments, we can also provide full operative service based on monthly or handling fee.



Flowrox GeoBox™ roll-off unit saves water and makes transport of waste much easier.



Geotextile bag effectively separates solids from water.



The GeoBox™ units can be isolated and heated for areas with colder climates.

## YOUR BENEFITS

Avoid major investments



Process and transportation in one closed container



Mobile unit: no need for permanent installations



Cost efficient dewatering



High versatility



# All-in-one roll-off geotextile filtration and dewatering unit ”

## GeoBox™ Roll-Off Unit Includes:

- Container and geotextile bag
- High performance Flowrox LPP-T slurry transfer pump
- Chemical dosing Flowrox LPP-D pumps
- Flocculation reactor module (39.3 in and 78.7 in options)



Flowrox LPP-D chemical dosing and LPP-T slurry transfer pump.

## Enhance GeoBox™ Performance with Flowrox Smart Solutions™

Flowrox Malibu™ is a new way to combine your process and Industrial Internet of Things (IIoT). Remote access allows you to manage, measure and analyse the following.

### Filling pump and flow monitoring:

- Process values e.q. flow, temperature and pressure
- Pump condition monitoring and preventive maintenance

### GeoBox™ filtering:

- Estimated lifetime, notifies before new filter bag is required
- Current filter bag fill level
- Notifications about GeoBox™ condition



Malibu™ portal is user-friendly and easy to navigate.



### CUSTOMER CASE 1: Power plant MEDIUM: organic sludge, 2000 tons per year

Power plant had to transport all produced sludge to the landfill with vacuum trucks which resulted in big annual expenses of \$400 000. After the plant decided to dewater the sludge with GeoBox™, the dried sludge can be burned at the plant. Costs are cut in half and the plant it is saving more than \$200 000 every year.



### CUSTOMER CASE 2: Stainless steel plant MEDIUM: oily wastewater treatment sludge, 700 tons per year

Every year the stainless steel plant spent \$300 000 to handle its oily sludge. It had to be first transported by vacuum trucks and then treated at a hazardous waste treatment plant. Then the GeoBox™ stepped in to dewater oily sludge. Now, the total annual savings are over \$150 000 since the plant is left with only 60 tons of dried sludge, which is burned at pyrolysis waste treatment. Additionally, transport is easy as GeoBox™ is designed as a roll-off unit, ready for pick up.



Flowrox Inc.  
808 Barkwood Court Suite N  
21090 Linthicum, Maryland, US  
Tel. +1-410-636 2250

www.flowrox.com  
sales-us@flowrox.com

