

# SLG-F Mobile

## Sludge thickening



Cost-effective and high-performance mobile plug-and-play sludge thickening



The SLG-F product is a combination of the SLG conditioning solution and the Flosep, an Orege proprietary product for the separation and thickening of sludge

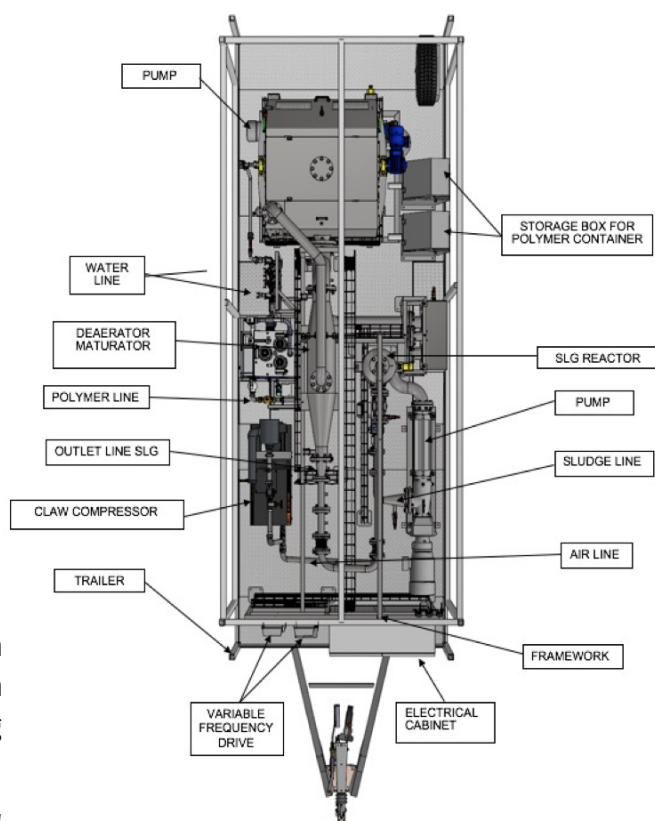
### Design & Equipment overview

The mobile SLG-F trailer includes all necessary equipment to make it an effective plug & play product :

- Air blower
- Inlet sludge feed pump
- SLG conditioning solution
- In line polymer preparation module
- Degasser
- Flowmeter & pressure sensors
- Flosep sludge thickener
- Thickened sludge pump
- Control cabinet & HMI Tablet

The SLG-F product is designed and built with safety in mind and in accordance with current best practice. High corrosion resistance materials ensure durability and long product life.

The trailer is designed to be towed between sites by any vehicle with appropriate towing fittings and required towing capacity.



	SLG-F Mobile
Processing capacity	15-25 m <sup>3</sup> /h
Dimension	L7800 x W2400 x H2870
Weight	3,4 tons for hard top version 2,8 tons for tautliner version

## Working principle

- The **SLG (Solid Liquid Gas) conditioning** generates an emulsion which floats naturally, inducing a rapid separation of sludge and water.
- Polymer is added during the **flocculation** stage to stabilize and facilitate a clean water/sludge separation and a **degassing** stage evacuates excess air.
- The flocculated sludge is drained over a rotary screen, the **Flosep**, resulting in rapid and improved thickening with high quality filtrate.

The SLG-F is suitable for **all sludge types** from **municipal and industrial wastewater treatment plants** including: Waste Activated Sludge (WAS), mixed sludge, co-settled sludge, digested sludge, P removal and even septic sludge.

## Main benefits

- Reduce sludge volumes up to 90%
- Reduce hauling and elimination costs
- Reduce CO2 & GHG emissions
- Improve sludge rheological properties: the "SLG sludge" remains pumpable up to 7% or 8%DS
- Improve filtrate quality (P and N concentrations are reduced in comparison with conventional thickening equipment)

## Additional benefits

- Reduce polymer consumption in comparison with conventional thickening equipment
- Reduce odours and corrosive gas emissions
- Increase existing sludge equipment treatment capacity
- Wash water 250l/h



SLG-F mobile hard top version



SLG-F mobile tautliner version

## Features

- Plug & Play compact solution
- Reduces typical construction requirements for traditional thickening system (installed, commissioned and operational in a few days)
- 4G enabling for remote monitoring and diagnostics
- Low Operational & Maintenance costs
- Easy operating mode thanks to its automatic and smart control system
- 3 versions are available for control panel and HMI : Phoenix, Siemens or Rockwell Alan Bradley