

SLG-F Skid

Sludge thickening



Cost-effective and high-performance 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 skid 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

	SLG-F 20 skid	SLG-F 30 skid
Processing capacity	15-25 m ³ /h	25-35 m ³ /h

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 skid 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