

Orege Dewatering System

SLG-MD402 EU

The SLG-MD402 solution consists in factory prefabricated units which are delivered in the form of skids, allowing for fast positioning on site:

- SLG includes a closed vessel with a sludge/air injector, control valves and instrumentation
- Boge Compressor & 50 litre air vessel supplies the air process to the SLG and also the air instrumentation for controlling the control valves.
- Deaerator-maturator is used upstream of dehydration stage in order to remove excess air contained in sludge after SLG processing and to promote the formation of flocs.
- 402 Twin dewatering screw press is positioned at the end of the SLG process line and is used for cake sludge removal.

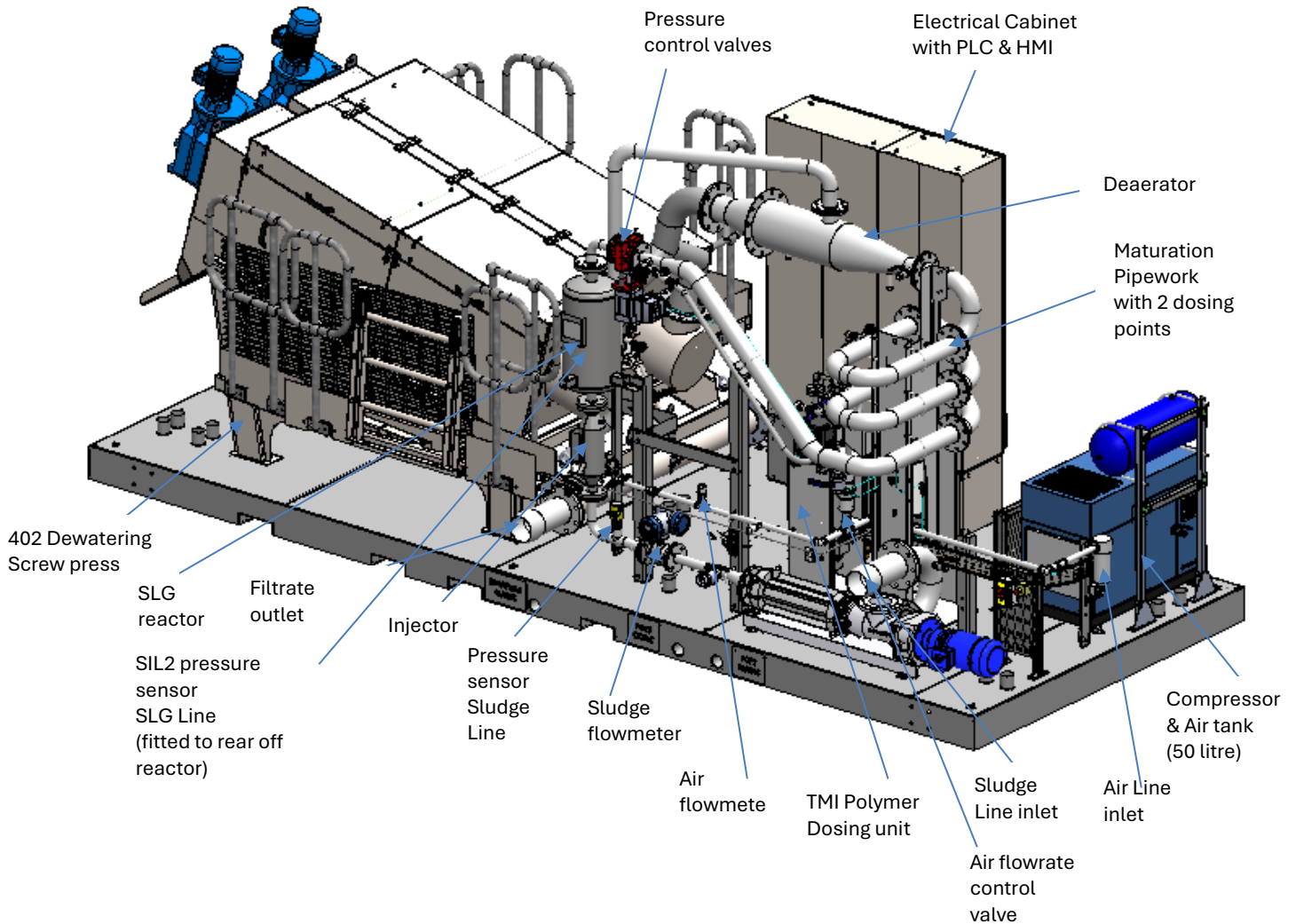


Figure 1: General overview of SLG-MD402

Technical Characteristics

General	
Container	24' hooklift with side curtains
Dimensions	L6858 × W2464 × H3104 mm
Tare weight	Approx 7 000 kg (skid) Approx 9 000 kg (hooklift container)
Loaded weight	Approx. 10 000 kg (skid) Approx. 12 000 kg (hooklift container)
Operating conditions	
Operating temperature	5° C to 40° C
Relative humidity	80% up to 31° C decreasing linearly to 50% at 40° C
Operating pressure range	1 to 3.5 bar g
Treatment capacity	
Max hydraulic capacity	27 m ³ /h
Max loading capacity -- 3% mixed raw	810 kg/h
Hydraulic connections	
Sludge inlet	6" FEMALE BAUER COUPLING or Flange DN150
Clean Water	G 1" F
Net polymer	3/8" Hose tail
Filtrate	Flange DN150
Water requirement	
Clean water for washing the dewatering drums and preparing the polymer solution	2-4 bars <i>for polymer: 0.15 to 1.5 m³/h</i> <i>for flushing: 100L/min</i>
Power	
Power supply	415V AC 50Hz, 3pH+N+PE, TN-S
Incomer rating	80A
Control voltage	24VDC
Main Components System	
SLG® system	Orege's proprietary pretreatment system
Air compressor	Boge C 7 PM
Feed pump	Cavity pump Seepex BN35-6LS
Multi-Disc Screw-press	Water Teknik WTDS-402
Polymer preparation	TMI Liquifloc A9713
IIoT Gateway	for remote diagnostic and support