Orege Dewatering System

SLG-MD503 EU

The SLG-MD503 solution consists in factory prefabricated units which are delivered in a 27' insulated container for fast positioning on site:

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

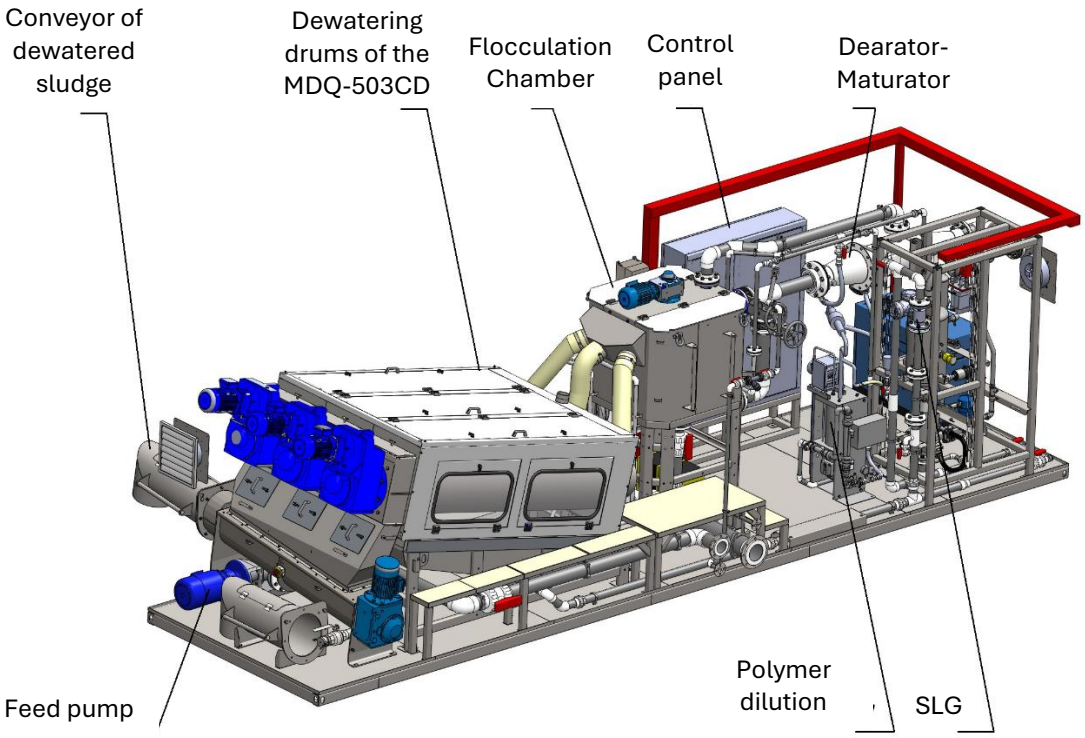

Figure 1: General overview of SLG-MD503

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Technical Characteristics

General	
Container	27’ insulated container with twist locks and fork pockets
Dimensions	L8250 × W2440 × H2600 mm
Tare weight	Approx. 14 300 kg
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	35 m^3/h
Max loading capacity -- 3% mixed raw	1050 kg/h
Hydraulic connections	
Sludge inlet	Flange DN100
Clean Water	Flange DN25
Net polymer	Flange DN20
Filtrate	Flange DN150
Water requirement	
Clean water for washing the dewatering drums and preparing the polymer solution	2-4 bars *for polymer: 0.5 to 4 m^3/h* *for flushing: 110L/min*
Power	
Power supply	400V AC 50Hz, 3pH+N+PE, TN-S
Incomer rating	100A
Control voltage	24VDC
Main Components System	
SLG® system	Orege’s proprietary pretreatment system
Air compressor	Boge C 7 PM
Feed pump	Cavity pump Seepex BN52-6LS
Multi-Disc Screw-press	ESMIL MDQ-503CD
Polymer preparation	TMI Liquifloc A9723
Screw conveyor	KVE 11/2.2 320
IIoT Gateway	for remote diagnostic and support