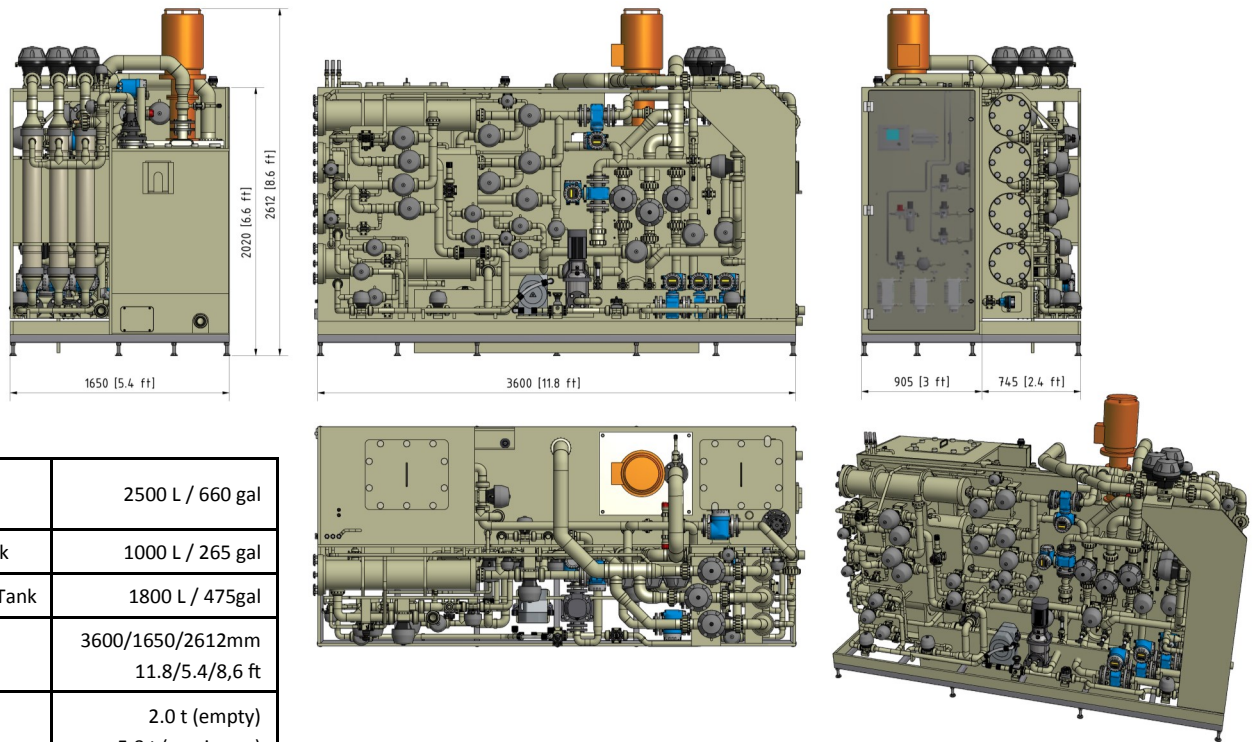


Slurry Recycling Module 5.1 m³/h



Storage Tank (external)	2500 L / 660 gal
Permeate Tank	1000 L / 265 gal
Recirculation Tank	1800 L / 475gal
Size (L/W/H)	3600/1650/2612mm 11.8/5.4/8,6 ft
Weight	2.0 t (empty) 5.8 t (maximum)

Remarks: The following specifications are only valid at a concentration level of solids less than 15% of SiO₂ slurry. Higher concentrations than 15% or other slurry variants on demand.

Specifications and key features

- Recycling of used Slurry, recycling rate > 80%
- Recycling of used water, recycling rate > 80%
- Liquid extraction > 85 l/min and > 3bar
- TCP/IP-based remote maintenance
- Fully automated system
- User-friendly touchscreen interface
- S7 PLC control system
- Visible/ Audible warnings and alarms
- Password protected operating levels
- High security standards
- Real time pre-alert for filter exchange
- CE certified

Materials

- PP
- PFA
- PVC

Operating system

- Movicon Scada/HMI
- MS Windows

Standard analytics

- Density
- Total % solids
- pH
- Conductivity

Slurry Recycling Module 5.1 m³/h

Quality control optional

- Viscosity
- PSD
- Metal analytics
- LPC large particle counter
- Zetapotential
- Silica

Requirements

- Organic solvent/oxidizer free wastewater
- Temperature: 15°C - 30°C / 59°F - 86°F
- No contaminations of copper or tungsten
- pH: 2 - 11

Technical Data

Utilities	Utilities consumption / production	Connection
Slurry recycled	Depends on % solids of wastewater	D 40 / 1" PFA
Water recycled (Permeate)	5.1 m ³ /h (1,347 gph) @ < 0.02 MPa	D 40
CMP Wastewater	6.0 m ³ /h (1,585 gph) @ 0 MPa	D 50
Stabilizer KOH (48%) Stabilizer NH4OH (29%)	approx. 7 ml (0.24 fl oz) per Liter of recycled Slurry approx. 70ml (2.4 fl oz) per liter of recycled Slurry	D 40 / ½" PFA
Waste drain	< 1.2 m ³ /h (317 gph) @ 0 MPa	D 63
Compressed air	< 25 Sm ³ /h (SCM/h) @ > 0.45 MPa	1/2" SS
Nitrogen	< 35 Sm ³ /h (SCM/h) @ > 0.45 MPa	1/2" SS
Overflow	< 10 Sm ³ /h (SCM/h) worst-case	D 63
Exhaust	100 m ³ /h (26,417 gph)	D 110
Electrical Power	(3 x 400VAC) ± 5% @ 50/60 Hz	

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Covered by patent DE102011056633(B4). WO2013/092606(A1), WO2011/042017(A1) and other patents are pending.

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