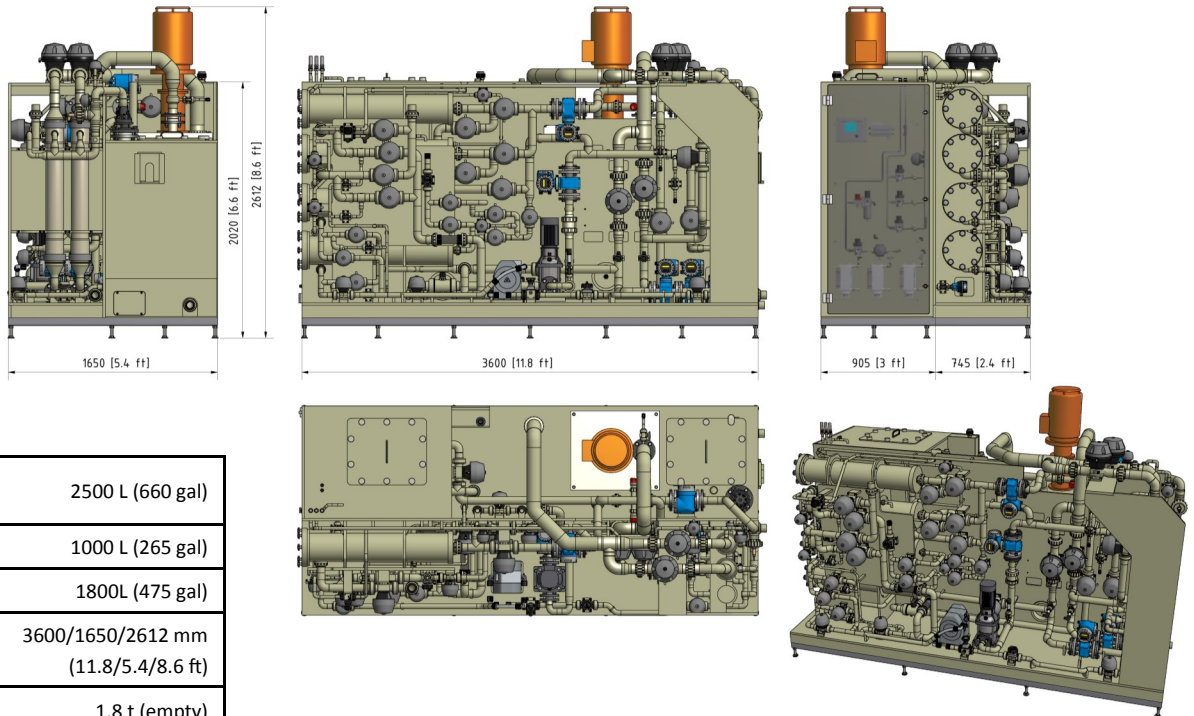


Slurry Recycling Module 3.4 m<sup>3</sup>/h



Storage Tank (external)	2500 L (660 gal)
Permeate Tank	1000 L (265 gal)
Recirculation Tank	1800L (475 gal)
Size (L/W/H)	3600/1650/2612 mm (11.8/5.4/8.6 ft)
Weight	1.8 t (empty) 5.3 t (maximum)

Remarks: The following specifications are only valid at a concentration level of solids less than 15% of SiO<sub>2</sub> slurry. Higher concentrations than 15% or other slurry variants on demand.

Specifications and key features

- Recycling of used Slurry, recycling rate > 85%
- Recycling of used water, recycling rate > 98%
- Liquid extraction > 57 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 3.4 m<sup>3</sup>/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)	3.4 m <sup>3</sup> /h (898 gph) @ < 0.02 MPa	D 40
CMP Wastewater	4.0 m <sup>3</sup> /h (1,057 gph) @ 0 MPa	D 63
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	< 0.8 m <sup>3</sup> /h (211 gph) @ 0 MPa	D 63
Compressed air	< 25 Sm <sup>3</sup> /h (SCM/h) @ > 0.45 MPa	½" SS
Nitrogen	< 35 Sm <sup>3</sup> /h (SCM/h) @ > 0.45 MPa	½" SS
Overflow	< 10 Sm <sup>3</sup> /h (SCM/h) worst-case	D 63
Exhaust	100 m <sup>3</sup> /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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