

Compact-Module



Process

- Recycling capacity of 1,7m³/h wastewater/permeate (depending on slurry type and waste water condition)
- Pre-filtration
- Concentration of slurry solids
- Backwash of UF-membrane with permeate
- Permeate outlet to customer
- Chemical dosing for acid/caustic
- Optional dosing for fresh slurry and additives
- slurry outlet to customer with final-filtration

Standard analytics

- Density
- Total % solids
- pH

Mechanical specifications

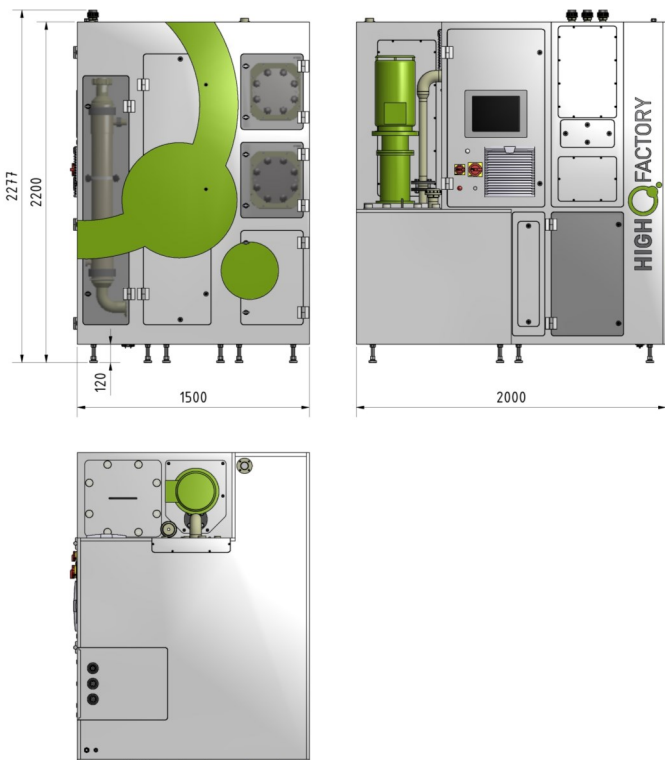
- Size (L x W x H): 2m x 1,5m x 2,2m
- Empty weight: 1.1t
- Operational weight: 2,1t

Electrical specifications

- Fully integrated control cabinet
- 15" industrial touch panel
- Input voltage: 400V 3-phase 50Hz
- Input current: max. 38A

External process Options

- Waste water buffer tank
- Permeate buffer tank
- Slurry buffer tank with analytic
- Storage/mix system
- Supply system for acid/caustic/fresh slurry/additives



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Media connections

CMP-wastewater inlet	D50 PP-H union
Fresh slurry inlet	1/2" PFA Flaretek
Acid/caustic inlet (optional)	1/4" PFA Flaretek
Additives	1/4" PFA Flaretek
Nitrogen inlet	3/4" 316L Swagelok
CDA inlet	1/2" 316L Swagelok
Exhaust outlet	50mm pipe end, provide with air gap!
Recycled slurry outlet	D40 PP-H union
Permeate outlet (low conductivity)	D40 PP-H union
Permeate outlet (high conductivity)	D40 PP-H union
Drain	D50 PP-H union

System components

- ① **Feed-Valve**
 - for recirculation tank level control
- ② **Combined pre-/final-filter**
 - 0,15bar min. differential pressure
- ③ **Recirculation tank**
 - 700L volume
 - level automatically controlled
- ④ **Recirculation pump**
 - Munsch horizontal cantilever pump
 - variable pump speed
- ⑤ **Ultrafiltration-module**
 - Different membrane types for different slurries and concentrations available
- ⑥ **Permeate tank**
 - 138L volume
- ⑦ **pH sensor**
- ⑧ **Density sensor**
- ⑨ **Permeate conductivity sensor**
- ⑩ **Divider valve for permeate of low conductivity**
- ⑪ **Divider valve for permeate of high conductivity**

