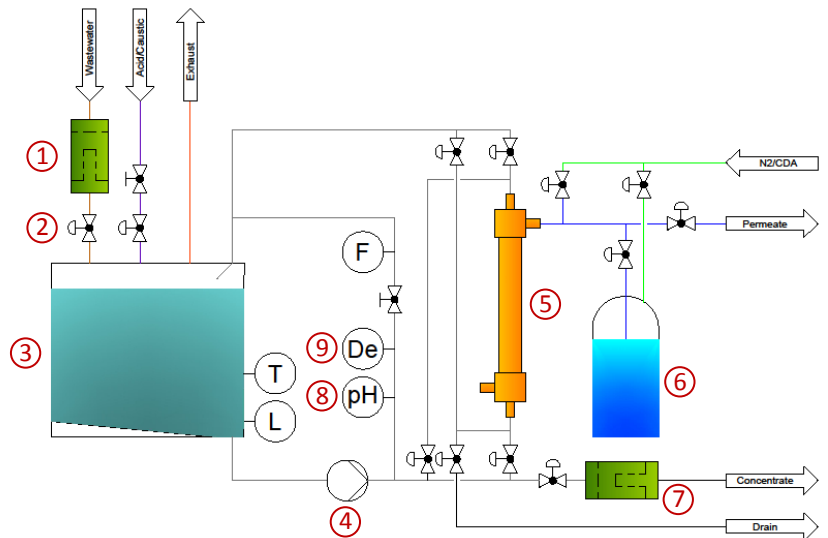


Ultra-Compact-System for development and qualification

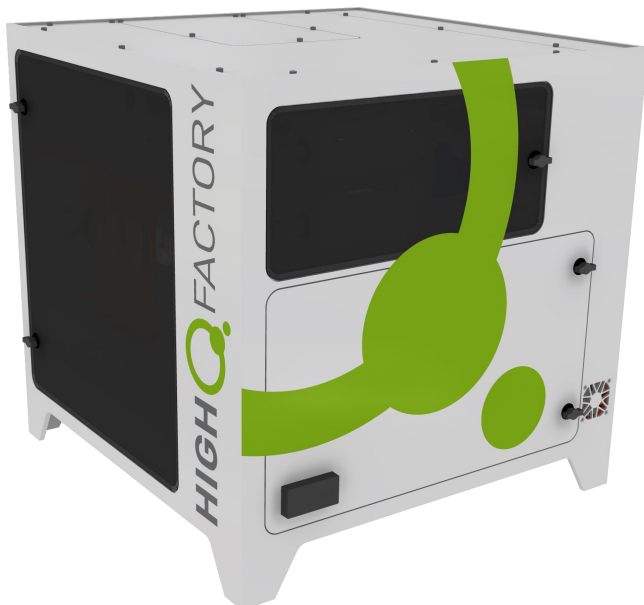
System components

- ① **Pre-Filter**
 - 0,15bar min differential pressure
- ② **Feed-Valve**
 - for recirculation tank level control
- ③ **Recirculation tank**
 - 30L volume
 - level automatically controlled
- ④ **Recirculation pump**
 - bearingless Levitronix pump
 - variable pump speed
- ⑤ **Ultrafiltration-Module**
 - Different membrane types for different Slurrys and concentrations available
- ⑥ **Permeate tank**
 - 6,8L volume
- ⑦ **Fine-filter**
- ⑧ **pH sensor**
- ⑨ **Density sensor**



Media connections

CMP-wastewater inlet	D20 PP-H union
Acid/caustic inlet (optional)	1/4" PFA Flaretek
N2/CDA inlet	10mm push-in connector
Exhaust outlet	20mm pipe end, provide with air gap!
Recycled Slurry outlet	D20 PP-H union
Permeate outlet	D20 PP-H union
Drain	D20 PP-H union



Process

- Recycling capacity of 30-100l/h wastewater/permeate (depending on number of used UF-membranes and wastewater 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 or additives
- Slurry outlet to customer with final-filtration

Standard analytics

- Density
- Total % solids
- pH

External equipment

- Laptop for HMI
- Supply pump for Wastewater pressure lower than 0,15bar
- Chemical supply if acid/caustic-dosing is needed

Mechanical specifications

- Size (L x W x H): 800mm x 800mm x 800mm
- Empty weight: 40Kg
- Operational weight: 85Kg

Electrical specifications

- Input Voltage: 100/240V 1-phase 50/60Hz
- Input Current: max. 20/14A