

# Water-refinement for electrolysis

Hydrogen (H<sub>2</sub>) is produced from high purity water using PEM electrolysis.

In addition to pre-treatment, our expertise lies in the production, storage and distribution of high purity water as well as water refinement systems for PEM electrolysis. Circulation purification for recycling the contaminated ultrapure water plays a key role in our portfolio and is either integrated directly into the feed water treatment system or added as a stand-alone unit to an existing ultrapure water treatment system.



**Plug & Play solutions**

Our handling system makes it possible to change the polishers quickly and easily in under an hour. Meanwhile, the water can circulate within the circulation cleaning system.



**High security**

Our redundant systems offer the highest safety standards to ensure trouble-free system operation.

## Technical Data

Material	Stainless steel 1.4404; 1.4571 or higher grade
Process engineering	Pressure booster station, cooling (optional), mixed bed or pure resin polisher, fine filter, 3-way valve (optional)
Resin exchange	Transportable interchangeable cartridges
Availability	> 99 % with 2-stage polisher design and redundant pumps
Available power levels	1.000 – 200.000 l/h
Connections	Tri-Clamp according to DIN 32676, screw connections or Flange according to EN 1092-1
Valves	Diaphragm valves, butterfly valves or butterfly valves
Inline/Online Process monitoring	Conductivity, TOC (optional), temperature, pressure, flow rate
Control and visualization	Simatic S7-1200/1500 PLC with touch panel or via Simatic ET200 using the central customer control system

Technical changes and errors excepted.