

Pre-treatment

Our pre-treatment processes the drinking water into high purity water, which is used in various areas. Based on the feed water quality and the product requirements, reverse osmosis together with electrodeionization removes ions, microorganisms and organic impurities and thus ensures compliance with the corresponding conductivity limits.

The high purity water is also the central raw material for PtX technologies, from which hydrogen (H₂) is produced using PEM electrolysis and surplus green electricity.



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

Thanks to our redundant systems, we offer you the highest safety standards that enable trouble-free system operation.

Technical Data

Material	PP-H, cleaned, PVDF, PVDF-HP, stainless steel 1.4404 or higher grade
Process engineering	Softener/antiscalant, reverse osmosis, membrane degassing, EDI, UV oxidation, polisher, membrane filtration
Available power levels	10 - 50.000 l/h
Total yield	> 75 – 90 %
Ultrapure water quality	up to 18.2 MOhmxcn, < 5 ppb TOC, < 50 ppt single ions < 0.20 µm particles
Connections	Screw connection/ flange
Valves	Diaphragm valves, from DN 65 Disc valves
Inline/Online Process monitoring	Conductivity, conductivity, TOC (optional), temperature, pressure, level, flow rate
Control and visualization	System control via Simatic S7 PLC, operation and visualization via Siemens TIA Portal

Technical changes and errors excepted.