

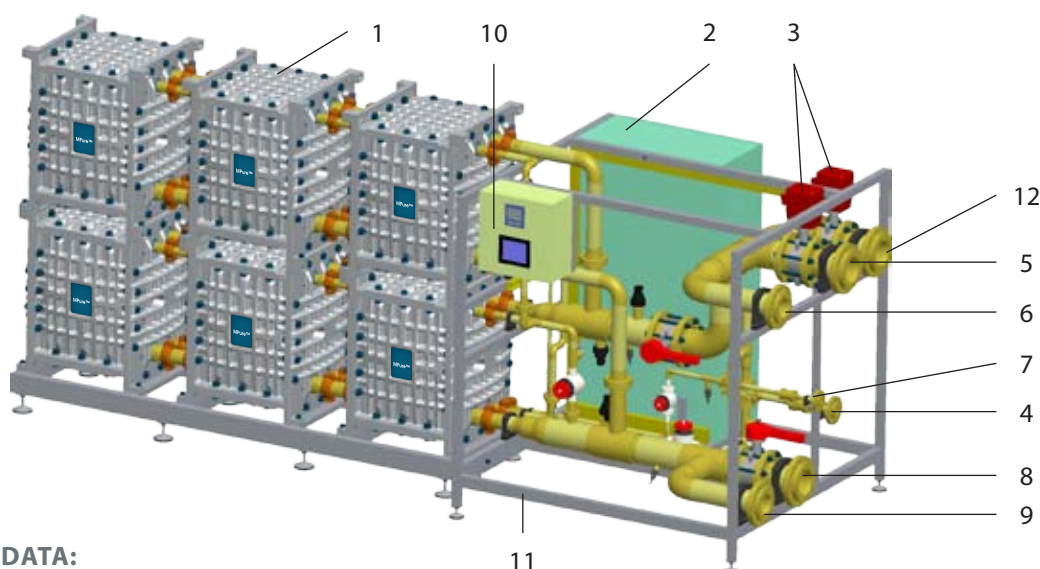
RALEX® HPWU MPure™ SYSTEMS

APPLICATION:

MPure™ systems produce high purity water using MPure™ Electrodeionization stacks. The systems are manufactured in MEGA production plant in accordance to ISO norms 9001, 14001 and OHSAS 18001. A range of pre-engineered systems is available to provide simple integration of the EDI stacks into overall water treatment systems. The equipment is designed to meet the requirements of the power, chemical and microelectronic industries.

DESCRIPTION:

The RALEX® HPWU range of pre-engineered systems with MPure™ stacks cover flow rates from 5 m³/h (22 gpm) to more than 100 m³/h (440 gpm) per unit. The rugged skid mounted systems are factory assembled and tested to minimize installation and start-up costs. Systems use premium components and are delivered complete with power supply, instrumentation and controls. Various options, including remote monitoring and control, are available to allow for easy operation and integration with pretreatment and post treatment equipment.



TECHNICAL DATA:

Position No.	Description
1	MPure™36 stacks
2	Switchboard with DC MPure™ Rectifiers (one DC rectifier for each stack)
3	Electrically actuated product divert valves
4	Concentrate outlet
5	Product outlet
6	CIP outlet
7	Electrode solution outlet
8	Feed water inlet
9	CIP inlet
10	PLC with touch screen
11	AISI 304 skid incl. adjustable legs
12	Off spec outlet



RALEX® HPWU MPure™ SYSTEMS

The MPure™ systems use RO permeate to produce a product water quality with high resistivity (16–18 MOhm-cm) and achieve a silica removal of more than 96 %. The units operate in one-pass mode without the need for recirculation or salt injection.

FEATURES:

- Simple and cost-effective solution
- Small footprint due to the ability to interconnect and arrange stacks on top of each other
- Welded stainless steel AISI 304 skid
- Polypropylene as a standard piping material
- Flow and Pressure transmitters
- PLC with Ethernet interface
- No isolation transformer required
- CIP connections and auto divert valves included
- Comprehensive documentation

OPERATING PARAMETERS:

- Recovery up to 97.5 %
- Inlet power: 3 phase/400 VAC/50 Hz
- Feed water temperature: 5 to 40 °C
- Feed pressure: 3 to 7 bar
- Pressure drop: 2 to 3 bar

EQUIPMENT SPECIFICATIONS

RALEX® HPWU type		1xMPure™36	2xMPure™36	3xMPure™36	4xMPure™36	5xMPure™36	6xMPure™36	7xMPure™36	8xMPure™36	9xMPure™36
No. of modules		1	2	3	4	5	6	7	8	9
Nominal flow rate (m³/hour)		10	20	30	40	50	60	70	80	90
Flow rates (m³/hour)		5–15	10–30	15–45	20–60	25–75	30–90	35–105	40–120	45–135
Hydraulic connection (mm)	Feed water inlet	DN100	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN150
	Product outlet	DN100	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN150
	Concentrate outlet	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Electrode solution outlet	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20
	CIP inlet/outlet	DN80	DN80	DN80	DN100	DN100	DN100	DN125	DN125	DN125
Dimensions (mm)	Length	2440	3190	4070	3330	4210	4210	4760	4760	4760
	Depth	1300	1300	1300	1470	1470	1470	1500	1500	1500
	Height	1655	1655	1655	1810	1810	1810	2620	2620	2620
Operating Weight (kg)		700	1120	1500	1865	2270	2640	3190	3560	3930
Connected Power (kVA)		8.1	13.7	19.2	24.8	30.3	35.9	41.4	47.0	52.5