

Ultra Clear™ RO/DI/EDI

Pure water system



High quality – low energy consumption

The **Ultra Clear™ RO series** produces pure water with low energy consumption and a high salt retention rate. Thanks to the integrated, automatic membrane rinsing programs, these systems can be operated with untreated municipal water in most cases and achieve a yield of up to 75 percent.

The **Ultra Clear™ RO DI system** has an additional DI post-treatment module for residual demineralisation after reverse osmosis and delivers a typical conductivity of $< 0.1 \mu\text{S/cm}$, which exceeds most laboratory requirements.

Benefits

- Simple change of modules due to quick-fit coupler
- Service/maintenance and conductivity messages
- Consumables included in the scope of supply
- Ionpure® EDI cell systems with significantly lower operating costs

Compared to the first two systems, the **Ultra Clear™ RO EDI** is equipped with an Ionpure® electro-deionisation cell (CEDI), which further reduces ongoing operating costs as this cell requires no regeneration chemicals and uses less rinsing water compared to similar competing systems. This highly efficient system achieves a typical conductivity of $< 0.07 \mu\text{S/cm}$ and TOC values of $< 30 \text{ ppb}$.

All systems have a display that shows the feed and product water quality, conductivity, error messages, tank level, working pressure and maintenance intervals, among other things.

Typical applications

- Feed for laboratory ultrapure water systems
- General chemistry
- Laboratory washing machines
- Feed for autoclaves and environmental chambers
- Buffer preparation
- Photometry, spectrophotometry
- Protein electrophoreses
- Microbiological media preparation
- Electrophoreses
- Cytology and histology applications

Consumables

Item No.	Description	Change frequency*
W3T197613	Pretreatment module AMB	6 - 12 months
W3T197618	Pretreatment module VMD	6 - 12 months
W3T199848	Conditioning module for Ultra Clear with EDI	**
W3T197620	RO module 10 l/h***	2 - 3 years
W3T439875	RO module 15 l/h****	2 - 3 years
W3T197580	RO module Ultra Clear RO 20 up to Ultra Clear RO 100	2 - 3 years
W3T339714	CO ₂ + UV kit for 30 l tank	12 months
W3T339715	CO ₂ + UV kit for 60 l tank	12 months
W3T324529	UV kit 30, 60 l tank	12 months
W3T339692	UV kit 80 l tank	12 months
W3T199197	CO ₂ trap CT1 replacement for 30, 60, 80 l tank	12 months
W3T199837	CO ₂ trap CT1/Vent filter for 80 l tank	12 months
W2T558519	UV lamp 12 W, 425 mA for 30, 60, 80 l tank	12 months

*: Change intervals possibly shorter, depending on feed water and consumption

**: depending on water input hardness and consumption

***: W3T197620: 1 x for Ultra Clear RO 10, EDI 10, 2 x for Ultra Clear RO 20, RO DI 20 and RO EDI 20.

****: W3T439875: 2 x for Ultra Clear RO 30, RO DI 30 and RO EDI 30



Ultra Clear system with 80 l tank

Accessories

Item No.	Description
W3T324512	30 l tank without pump
W3T324513	60 l tank without pump
W3T355215	60 l tank with NS 4 - 20 mA; pump 1.5 l/min 2 bar
W3T324515	80 l tank with pump 8 l/min for RO 20/30
W3T324514	80 l tank with pump 1,2 l/min for RO 20/30
W3T197510	80 l tank with pump 8 l/min for RO 60/100
W3T197526	80 l tank with pump 1,2 l/min for RO 60/100
W3T314413	CO ₂ Degassing unit up to 150 l/h
W3T428768	Modbus TCP Gateway

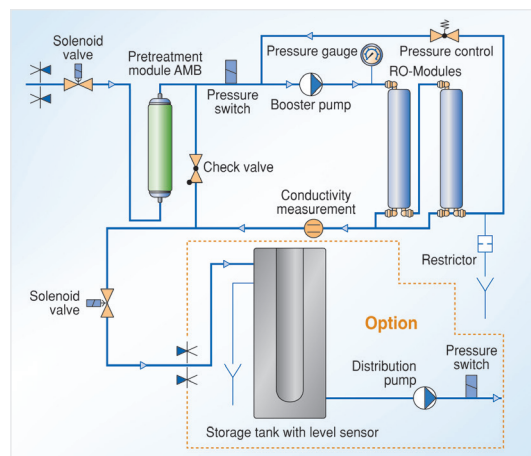
Test kits

W2T870161	Test kit Carbon dioxide
W2T870160	Test kit Silica

Specifications Ultra Clear RO

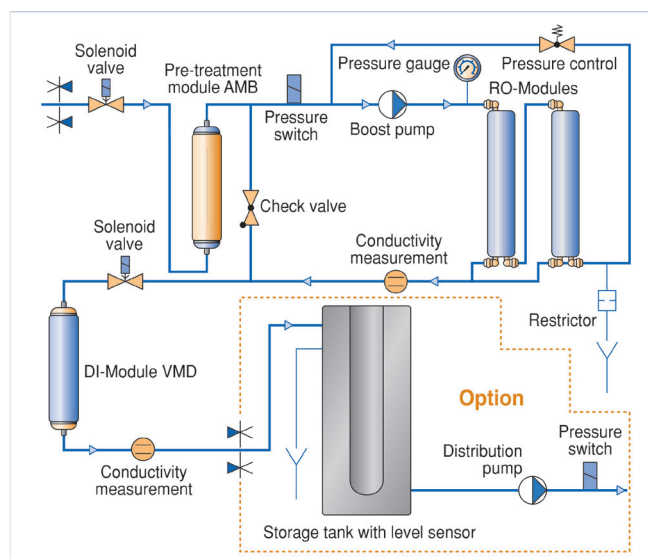
Ultra Clear RO	20	30	60	100
Production rate (l/h)	20	30	60	100
Salt retention rate (%)	> 98	> 98	> 98	> 98
Bacteria retention rate (%)	> 90	> 90	> 90	> 90
Particle retention rate (%)	> 99	> 99	> 99	> 99
Feed water specification				
Pressure (bar)	0.1 - 5.0	0.1 - 5.0	2 - 6	2 - 6
Conductivity (µS/cm)	< 2000	< 2000	< 2000	< 2000
Silt density index (SDI)	< 3	< 3	< 3	< 3
Free chlorine (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1
Iron (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1
CO ₂ (mg/l)	< 15	< 15	< 15	< 15
pH value	3 - 9	3 - 9	3 - 9	3 - 9
Temperature (°C)	5 - 35	5 - 35	5 - 35	5 - 35
Technical data				
Power consumption (kW/h)	0.2	0.2	0.2	0.2
Power supply (V/Hz)	100 - 240/50 - 60		220 - 240/50 - 60*	
Dimensions (H × W × D) (mm)	530 x 340 x 420			
Shipping weight (kg)	32	32	33	35
Item No.	W3T441745	W3T441746	W3T199978	W3T198158

*: 115 V upon request



Specifications Ultra Clear RO DI

Ultra Clear RO DI	Ultra Clear RO DI 20	Ultra Clear RO DI 30
Production rate (l/h)	20	30
Conductivity, permeate (µS/cm)	< 0.1	< 0.1
Salt retention rate (%)	> 98	> 98
Bacteria retention rate (%)	> 90	> 90
Particle retention rate (%)	> 99	> 99
Feed water specifications		
Pressure (bar)	0.1 - 5.0	0.1 - 5.0
Conductivity (µS/cm)	< 1400	< 1400
Silt density index (SDI)	< 3	< 3
Free chlorine (mg/l)	< 0.1	< 0.1
Iron (mg/l)	< 0.1	< 0.1
CO ₂ (mg/l)	< 20	< 20
pH value	3 - 9	3 - 9
Temperature (°C)	5 - 35	5 - 35
Technical data		
Power consumption (kW/h)	0.2	0.2
Power supply (V/Hz)	100 - 240 V / 50 - 60 Hz	100 - 240 V / 50 - 60 Hz
Dimensions (H x W x D) (mm)	530 x 340 x 420	530 x 340 x 420
Shipping weight (kg)	33	34
Item No.	W3T441747	W3T441748

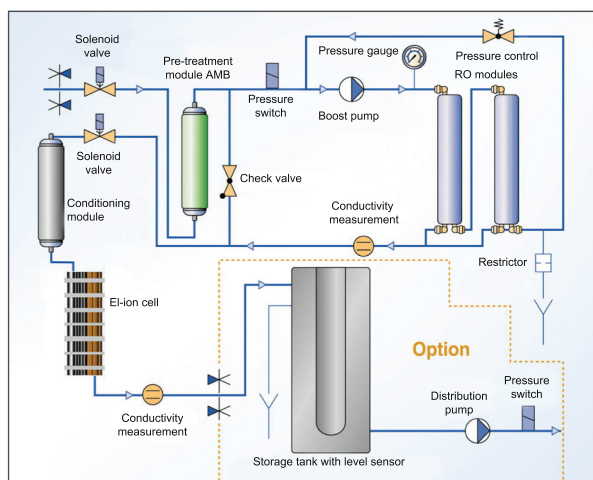


Specifications Ultra Clear RO EDI

Ultra Clear RO EDI	Ultra Clear RO EDI 10	Ultra Clear RO EDI 20	Ultra Clear RO EDI 30
Production rate (l/h)	10	20	30
Typical conductivity (µS/cm)	< 0.07	< 0.07	< 0.07
Max. conductivity (µS/cm)	< 0.2	< 0.2	< 0.2
Resistivity (MΩ-cm)	> 5 (10 - 15 typical)	> 5 (10 - 15 typical)	> 5 (10 - 15 typical)
TOC (ppb)	< 30	< 30	< 30
Silicate (ppb)	> 99.9% removal	> 99.9% removal	> 99.9% removal
Feed water specifications			
Pressure (bar)	0.1 - 5.0	0.1 - 5.0	0.1 - 5.0
Conductivity (µS/cm)	< 1400	< 1400	< 1400
Silt density index (SDI)	< 3	< 3	< 3
Free chlorine (mg/l)	< 0.1	< 0.1	< 0.1
Iron (mg/l)	< 0.1	< 0.1	< 0.1
SiO ₂ * (mg/l)	< 10	< 10	< 10
CO ₂ * (mg/l)	< 10	< 10	< 10
Water temperature (°C)	5 - 30	5 - 30	5 - 30
Ambient temperature (°C)	5 - 35	5 - 35	5 - 35
Technical data			
Power consumption (kW/h)	0.2	0.2	0.2
Power supply (V/Hz)	100 - 240 V/50 - 60 Hz	100 - 240 V/50 - 60 Hz	100 - 240 V/50 - 60 Hz
Dimensions (H x W x D) (mm)	530 x 340 x 420	530 x 340 x 420	530 x 340 x 420
Shipping weight (kg)	31	32	35
Item No.	W3T324496	W3T441749	W3T441750

Ultra Clear RO EDI 10, 20 and 30 with Ionpure EDI modules

* Please contact us if you have high CO₂ and SiO₂ levels in your water.



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