

# Ultra Clear™ RO EDI Pure Water System



## LEADING EDGE TECHNOLOGY

The successful Ultra Clear™ RO EDI Series stands for high quality purified water produced by Ionpure® EDI cells combined with proven reverse osmosis technology.

The Ultra Clear RO EDI Series is characterized by low energy consumption, high product water yield, and economical operation. The latest pump technology with an almost silent motor is another highlight of our Ultra Clear RO EDI Series. As pioneers in the electro-deionization field, we can make your decisions easy.

EDI cells do not require regeneration chemicals as the mixed bed ion exchangers do. EDI modules also use less rinse water than comparable systems. The results are impressive: typical conductivity < 0.07  $\mu\text{S}/\text{cm}$  and TOC values down to < 30 ppb set new standards for electro-deionization.

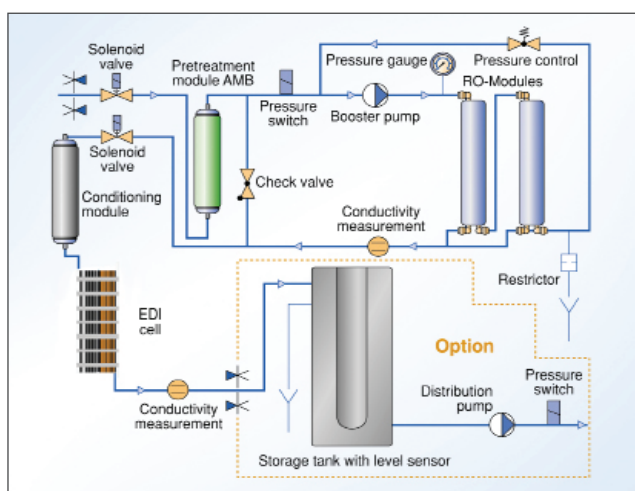
All systems display inlet and product water quality. The salt reduction rate will be shown in percentage. All systems are supplied with the first set of all cartridges and filters.

## BENEFITS

- Simple change of modules due to quick-fit coupler
- Service/maintenance report
- Scope of supply includes consumables
- Ionpure® EDI cells
- Optional communication interface module
- Made in Germany

## TYPICAL APPLICATIONS

- Feed for laboratory ultrapure water systems
- General chemistry
- Laboratory washing machines including final rinse
- Feed for autoclaves and environmental chambers
- Buffer preparation
- Others like photometry, spectrophotometry, general chemical analysis, media preparation, protein electrophoreses, microbiological media preparation, cytology and histology work, electrophoreses



## SPECIFICATIONS

System Performance		Ultra Clear RO EDI 10	Ultra Clear RO EDI 20	Ultra Clear RO EDI 30
Delivery flow rate	l/h	10	20	30
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
Colloid index	SDI	< 3	< 3	< 3
Free chlorine	mg/l	< 0.1	< 0.1	< 0.1
Fe	mg/l	< 0.1	< 0.1	< 0.1
SiO <sub>2</sub> *	mg/l	< 15	< 15	< 15
CO <sub>2</sub> *	mg/l	< 15	< 15	< 15
Water temperature	°C	5 - 30	5 - 30	5 - 30
Ambient temperature	°C	5 - 35	5 - 35	5 - 35
Power requirements				
Power consumption	W	200	200	200
Power supply	V/Hz	100 - 240 V/50 - 60 Hz	100 - 240 V/50 - 60 Hz	100 - 240 V/50 - 60 Hz
Dimensions (W x H x D)	mm	340 x 530 x 420	340 x 530 x 420	340 x 530 x 420
Item number		W3T324496	W3T441749	W3T441750

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

\* Please contact us if you have high CO<sub>2</sub> and SiO<sub>2</sub> levels in your water

## CONSUMABLES

Item number	Description	Change frequency*
W3T197613	Pre-treatment module AMB	3 - 6 months
W3T199848	Conditioning module	3 - 6 months
W3T197620	RO module 10 l/h **	2 - 3 years
W3T439875	RO module 15 l/h ***	2 - 3 years
W3T199197	CO <sub>2</sub> Trap CT1, replacement 30, 60, 80 l tank	12 months
W2T558519	UV Kit 30, 60, 80 l tank	12 months

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

\*\* 1 x W3T197620 for Ultra Clear RO EDI 10, 2 x W3T197620 for Ultra Clear RO EDI 20

\*\*\* 2 x W3T439875 for Ultra Clear RO EDI 30

## ACCESSORIES

Item number	Description
W3T324512	Tank 30 l
W3T324513	Tank 60 l
W3T324515	Tank 80 l with pump 8 l/min
W3T324514	Tank 80 l with pump 1.2 l/min
W3T314413	Degassing unit