



## ULTRA CLEAR® RO EDI PURE WATER SYSTEM

### LEADING EDGE TECHNOLOGY

The successful Ultra Clear® RO EDI Series combines leading edge technology and modern design. The name stands for the high quality purified water produced by the 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: conductivity down to  $< 0.07 \mu\text{S}/\text{cm}$  and TOC values down to  $< 30 \text{ ppb}$  set new standards for electro-deionization.

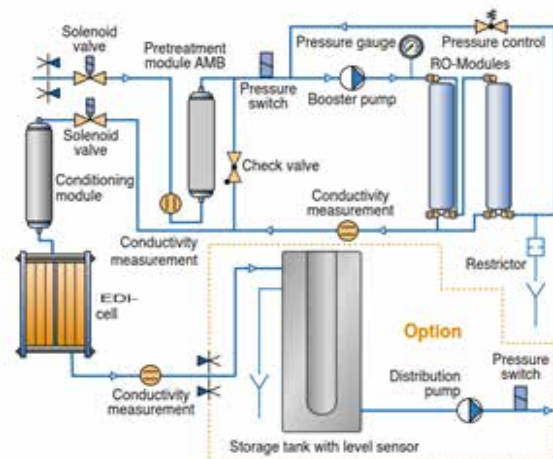
All systems display inlet and product water quality. The salt reduction rate will be shown in percentage. All systems are supplied with the first set of all cartridges and filters.

### BENEFITS

- Simple change of modules due to quick-fit coupler
- Service/maintenance report
- Scope of supply includes consumables
- Use of Ionpure EDI or EI-Ion 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	Ultra Clear RO EDI 55
Delivery flow rate	l/h	10	20	30	55
Conductivity	µS/cm	< 0.07	< 0.07	< 0.07	< 0.07
Max. conductivity	µS/cm	< 0.2	< 0.2	< 0.2	< 0.2
Resistivity	MΩ-cm	> 5 (10 - 15 typical)	> 5 (10 - 15 typical)	> 5 (10 - 15 typical)	> 5 (10 - 15 typical)
TOC	ppb	< 30	< 30	< 30	< 30
Silicate	ppb	> 99.9% removal	> 99.9% removal	> 99.9% removal	> 99.9% removal
<b>Feed water specifications</b>					
Pressure	bar	0.1 - 5.0	0.1 - 5.0	0.1 - 5.0	0.1 - 5.0
Conductivity	µS/cm	< 2000**	< 2000**	< 2000**	< 2000**
Colloid Index	SDI	< 12**	< 12**	< 12**	< 12**
Free Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Total iron	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
SiO <sub>2</sub> *	mg/l	< 10	< 10	< 10	< 10
CO <sub>2</sub> *	mg/l	< 15**	< 15**	< 15**	< 15**
Water temperature	°C	5 - 30	5 - 30	5 - 30	5 - 30
Ambient temperature	°C	5 - 35	5 - 35	5 - 35	5 - 35
<b>Power requirements</b>					
Power consumption	W	200	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	100 - 240 V / 50 - 60 Hz
<b>Dimensions (W x H x D)</b>	mm	340 x 530 x 420	340 x 530 x 420	340 x 530 x 420	340 x 530 x 420
<b>Item code</b>		W3T324496	W3T441749	W3T441750	W3T198868

Ultra Clear RO EDI 10, 20 and 30 with IonPure EDI module, 55 with El-Ion Technology

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

\*\* with a pre-filter kit

## CONSUMABLES

Item number	Description	Change frequency*
W3T197613	Pre-treatment module AMB	3 - 6 months
W3T199848	Conditioning module	3 - 6 months
W3T197620	RO module 20 l/h **	2 - 3 years
W3T439875	RO module 15 l/h **	2 - 3 years
W3T197580	RO module 55 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.

\*\* Amount depends on system size



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## ACCESSORIES

### FOR ULTRA CLEAR RO EDI 10-30

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

### FOR ULTRA CLEAR RO EDI 55

Item Number	Description	Change frequency*
W3T197510	Tank 80 l with pump 8 l/min	
W3T197526	Tank 80 l with pump 1.2 l/min	
W3T339714	CO <sub>2</sub> + UV Kit 30 l tank	12 months
W3T339715	CO <sub>2</sub> + UV Kit 60 l tank	12 months
W3T199837	CO <sub>2</sub> Trap CT 1 / Vent Filter 80 l	12 months
W3T324529	UV Kit 30, 60 l tank	12 months
W3T339692	UV Kit 80 l tank	12 months

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