



## PROTEGRA CS® RO/EDI

### CONSISTENTLY HIGH WATER QUALITY WITHOUT THE USE OF CHEMICALS

The reverse osmosis Protegra CS® RO/EDI systems are designed to serve the need for high volumes of desalinated water. They produce pure water for many applications. The combination of the Protegra CS RO with the EDI-cell significantly increases the pure water quality.

The compact design with high-quality components and intelligent control places great emphasis on cost-effectiveness. The plant systems are characterized by a consistent pure water quality. Conductivities of  $<0.1 \mu\text{S}/\text{cm}$  in single-phase and  $<0.07 \mu\text{S}/\text{cm}$  in dual-phase systems are achieved. The TOC content is  $< 30$  ppb.

Germ reduction is achieved by means of the special arrangement of the separate bed process and a related pH-value shift into the acidic range, preventing the growth of bacteria in work spaces. No system operates

more efficiently and economically, since the EDI-cell has a loss rate of only 10%. Low operating costs and a minimal maintenance outlay are features of this system.

These systems can be individually equipped with additional options such as different tank sizes and pressure boosting systems. They represent the core element in central water treatment plants in buildings and are used with the options necessary for a ring main operation. All systems have a RS 232 interface. Degassing systems to reduce the  $\text{CO}_2$  content in feed water are available – they ensure that the system remains within feed water specifications and protect the EDI-cell.

### Typical Applications

- Feed for ultrapure water systems
- General chemistry
- Feed for laboratory washing machines
- Feed for autoclaves
- Feed for environmental chambers
- Buffer preparation
- Photometry
- Spectrophotometry
- General chemical analysis
- Protein electrophoreses
- Microbiological media preparation
- Electrophoreses

### Fields of use

- Microbiology
- Electronics
- Optics
- Semiconductor
- Pharmaceuticals
- Chemistry
- Clinical
- Power plant
- Glass Industry
- Galvanic Industry

## SPECIFICATIONS PROTEGRA CS RO/EDI, EDI-CELL SINGLE STAGE MODULE

		Protegra CS RO/ EDI 120	Protegra CS RO/EDI 260	Protegra CS RO/EDI 500	Protegra CS RO/ EDI 750
Delivery flow rate	l/h	120	260	500	750
Pure water quality	µS/cm	<0,5	<0,5	<0,5	<0,5
Typical pure water quality	µS/cm	<0,1	<0,1	<0,1	<0,1
Max. yield	%	75	75	75	75
Max. working pressure	bar	14	14	14	14
Power consumption	kW/h	0,6	0,75	1,5	1,7
Power supply	V/Hz	230 / 50	230 / 50	400 / 50	400 / 50
Dimensions (HxWxD)	mm	1650x600x600		1650x600x750	
Shipping weight	kg	151	165	237	291
<b>Catalog number</b>		<b>W3T200007</b>	<b>W3T199823</b>	<b>W3T200009</b>	<b>W3T198152</b>

## SPECIFICATIONS PROTEGRA CS RO/EDI, EDI-CELL TWIN STAGE MODULE

		Protegra CS RO/ EDI 120	Protegra CS RO/EDI 260	Protegra CS RO/EDI 500	Protegra CS RO/EDI 750
Delivery flow rate	l/h	120	260	500	750
Pure water quality	µS/cm	<0,1	<0,1	<0,1	<0,1
Typical pure water quality	µS/cm	<0,07	<0,07	<0,07	<0,07
Max. yield	%	75	75	75	75
Max. working pressure	bar	14	14	14	14
Power consumption	kW/h	0,6	0,75	1,5	1,7
Power supply	V/Hz	230 / 50	230 / 50	400 / 50	400 / 50
Dimensions (HxWxD)	mm	1650x600x600		1650x600x750	
Shipping weight	kg	155	170	290	370
<b>Catalog number</b>		<b>W3T199822</b>	<b>W3T199619</b>	<b>W3T200008</b>	<b>W3T197525</b>

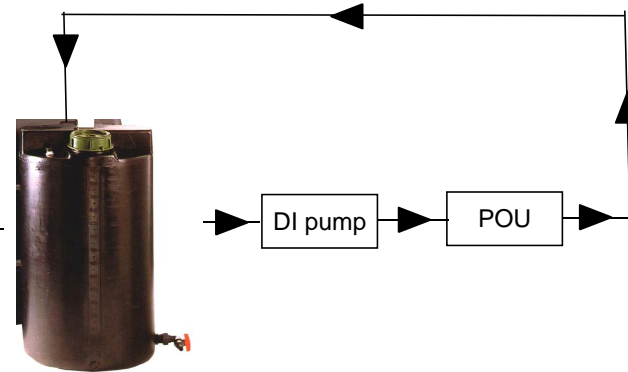
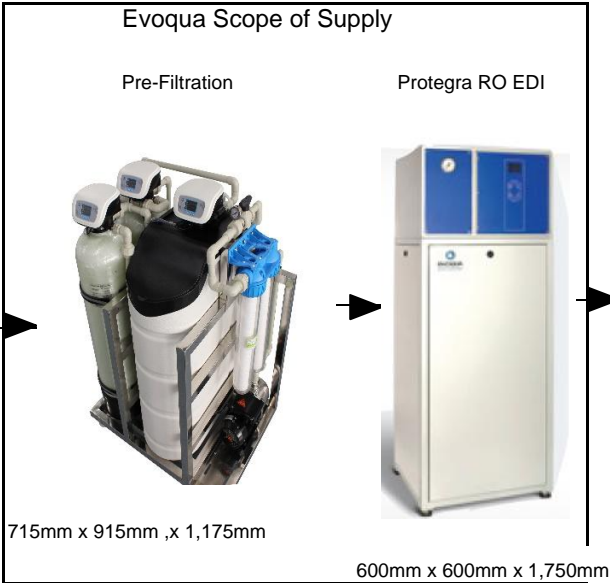
## PROTEGRA CS RO/EDI FEED WATER SPECIFICATIONS


Feed water specifications		Protegra CS RO/EDI 120	Protegra CS RO/EDI 260	Protegra CS RO/ EDI 500	Protegra CS RO/EDI 750
Pressure	bar	1-5	1-5	1-5	1-5
Conductivity	µS/cm	2000	2000	2000	2000
Silt density index	SDI	<12*	<12*	<12*	<12*
Free Chlorine	mg/l	0,5	0,5	0,5	0,5
Total iron	mg/l	<0,1	<0,1	<0,1	<0,1
SiO <sub>2</sub>	mg/l	<15	<15	<15	<15
CO <sub>2</sub>	mg/l	<15	<15	<15	<15
Temperature	°C	5-35	5-35	5-35	5-35
Hardness	°dH	0	0	0	0

Upgrades can be done for the post CDI, for UV and the sterile filter  
\* with a pre-filter

Feed Water Pressure has to be minimum 5bar otherwise a feed pump is needed.

Feed pump



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