



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 <math><0.1 \mu\text{S}/\text{cm}</math> in single-phase and <math><0.07 \mu\text{S}/\text{cm}</math> in dual-phase systems are achieved. The TOC content is <math>< 30 \text{ ppb}</math>.

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 CO₂ 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
Pure water output @ 15°C	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
Recovery rate max.	%	75	75	75	75
Operating pressure max.	bar	14	14	14	14
Power consumption	kW/h	0,6	0,75	1,5	1,7
Dimensions HxWxD	mm	1650x600x600		1650x600x750	
Catalog number		W3T200007	W3T199823	W3T200009	W3T198152

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
Pure water output @ 15°C	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
Recovery rate max.	%	75	75	75	75
Operating pressure max.	bar	14	14	14	14
Power consumption	kW/h	0,6	0,75	1,5	1,7
Dimensions HxWxD	mm	1650x600x600		1650x600x750	
Catalog number		W3T199822	W3T199619	W3T200008	W3T197525

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	1400	1400	1400	1400
Colloid Index SDI		<3	<3	<3	<3
Free Chlorine	mg/l	0,5	0,5	0,5	0,5
Fe	mg/l	<0,1	<0,1	<0,1	<0,1
SiO ² max.	mg/l	<15	<15	<15	<15
CO ² max.	mg/l	<15	<15	<15	<15
Temperature	°C	5-35	5-35	5-35	5-35
Hardness	°dH	0	0	0	0



Fahrenberg 8, 22885 Barsbüttel, Germany

Tel. +49 (0)40 670 868 -6

Fax +49 (0)40 670 868 -44

www.evoqua.com/en/brands/lab

Protegra is a trademark of Evoqua, its subsidiaries or affiliates, in some countries.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2016 Evoqua Water Technologies LLC

Subject to change without notice

PROEDI0916