# xylem + () evoqua

# Protegra CS® Pro RO EDI Lab Water System

### **CONSISTENTLY HIGH WATER QUALITY**

The Protegra CS<sup>®</sup> Pro RO EDI system is a high-performance purification solution for deionised water applications. Featuring industry-leading reverse osmosis technology and a high-performance lonpure® CEDI cell, the system maintains water quality at the required standard.

The system is ideal for a range of laboratory and industrial applications with a typical water quality of >  $0.07\mu$ S/cm and flow rates up to 1000 l/h at 15°C.

## **CENTRALISED DISTRIBUTION OF DEIONISED WATER**

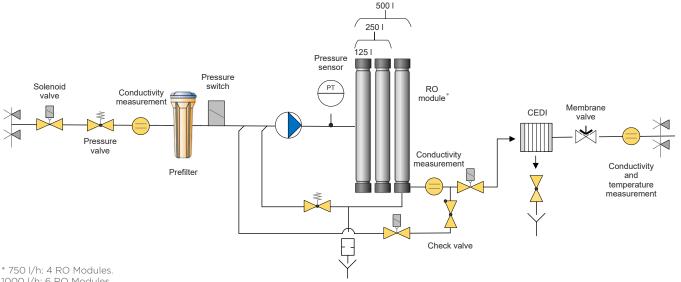
Our lab systems help improve operations, and reduce maintenance and operating costs by offering flexibility in distribution, sizing and storage. Configure the system to meet your needs working as a standalone or centralised distribution system, delivering water to multiple point of use locations within the building. In a lab environment where space is limited, the compact Protegra CS Pro system also offers the ability to store the storage tank separately.

All models include a range of tank sizes to meet different volume requirements, plus the option of a degassing system to protect the Ionpure cell. See page 2 for information on accessories.



# **FEATURES**

- High-purity deionised water is simple and safe with lonpure® CEDI cell technology
- User-friendly 7-inch HMI touchscreen display
- Intelligent and rugged design prevents downtime
- Service friendly design accessible from all sides
- Optional LED signal lights provide a visual indication of system status
- Monitoring through BMS (Building management system) made possible with Modbus<sup>®</sup> interface
- Data transfer via USB port. microSD-port for data recording and firmware updates



1000 l/h: 6 RO Modules.

#### SPECIFICATIONS PROTEGRA CS® PRO RO EDI

	125	250	500	750	1000
Delivery flow rate (I/h)	125	250	500	750	1000
Pure water quality (µS/cm)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Typical pure water quality (µS/cm)	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Yield max. (%)	75	75	75	75	75
Feed water specifications					
Pressure (bar)	2.5 - 6	2.5 - 6	2.5 - 6	2.5 - 6	2.5 - 6
Conductivity (µS/cm)	< 1400	< 1400	< 1400	< 1400	< 1400
Silt density index (SDI)	< 3	< 3	< 3	< 3	< 3
Free chlorine (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
lron (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SiO <sub>2</sub> (mg/l)*	< 10	< 10	< 10	< 10	< 10
CO <sub>2</sub> (mg/l)*	< 10	< 10	< 10	< 10	< 10
Temperature (°C)	5 - 30	5 - 30	5 - 30	5 - 30	5 - 30
Hardness (°dH)	< 1ppm	< 1ppm	< 1ppm	< 1ppm	< 1ppm
Technical Data					
Power consumption ( <b>kW</b> )	1.0	1.2	2.1	3.0	3.0
Power supply	3/N/PE 400 VAC 50/60 Hz				
Dimensions (H × W × D) (mm)	1795 x 650 x 545		1795 x 650 x 665		1795 x 650 x 780
Mounting	Wheels	Wheels	Feet	Feet	Feet
Shipping weight (kg)	165	180	265	275	295
Part No.	W3T553431	W3T553432	W3T553433	W3T553434	W3T587432

\*: in total not larger than 20 mg/l

#### CONSUMABLES

Part No.	Description	Change Frequency*
W2T526933	Activated carbon/Fine filter cartridge ${\rm ACB}^{*2}$	6 - 12 Months
W2T526551	Fine filter cartridge 5 µm Big Blue*3	6 - 12 Months
W2T522516	RO Module	2 - 3 Years

 $^{*}$  : Change intervals may be shorter, depending on feed water and consumption.  $^{*2}$ : Only for systems with 125 and 250 l/h;  $^{*3}$ : Only for systems from 500 l/h on

#### ACCESSORIES

Part No.	Description
W3T307039	LED signal light (red, yellow, green)
W3T570885*	Communication interface (Modbus Gateway)
W3T262426	Degassing unit
W3T199996	Storage tank*2 200 l, 550 x 1040 mm
W3T197508	Storage tank*2 300 l, 650 x 1080 mm
W3T198133	Storage tank*2 500 l, 770 x 1230 mm
W3T198836	Storage tank*2 750 l, 720 x 720 x 1700 mm
W3T198753	Storage tank*2 1000 l, 780 x 780 x 1940 mm
W3T199591	Storage tank*² 1650 l, 2085 x 720 x 1400 mm
W3T199890	Storage tank*2 2000 l, 2180 x 720 x 1700 mm
W3T199834	Storage tank*2 3000 l, 2230 x 850 x 2200 mm



**IONPURE**<sup>®</sup>

Protegra CS® Pro RO EDI system with optional signal light.

#### **TYPICAL APPLICATIONS**

- Laboratory washing machines including final rinse
- Supply for autoclaves and environmental chambers
- Feed for ultrapure water systems
- Hospital cart and utensil washers
- Buffer preparation
- Photometry
- Spectrophotometry
- Protein electrophoreses
- Media preparation
- Cytological and histological work
- Electrophoreses

\*: only for Protegra CS Pro;

\*2: all with level sensor 4 - 20 mA



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