



Protegra CS[®] Pro RO

REVERSE OSMOSIS SYSTEM



Meeting all pure water demands.

Laboratory, medical and industrial applications all need pure water in various qualities and quantities. The Protegra CS[®] Pro RO Series produces pure water for a wide variety of applications by reversing the natural osmosis process to deionize water in an environmentally friendly manner. Pure water produced via reverse osmosis can be put to a number of uses in laboratories – for rinsing laboratory glassware or as feed water to autoclaves, climatized cabinets and ultrapure water systems.

The Protegra CS Pro RO Series focuses on economic efficiency, combining a compact design with high quality components and intelligent controls. Our lab systems are designed to enhance your operations and significantly reduce maintenance and operating costs.

Protegra CS Pro Series

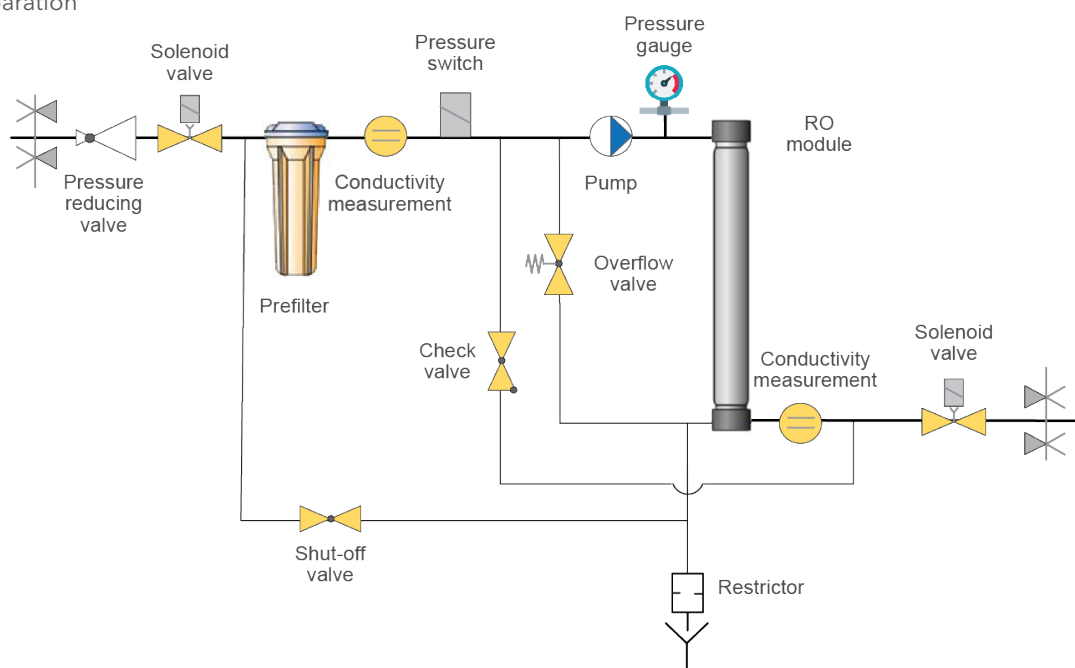
The Protegra CS Pro RO Series is a high-performance purification solution delivering up to 1200 l/h of purified water 24/7/365. With salt retention rates of > 98% and organic rejection rates of > 99%, this system ensures consistently pure water, achieving conductivity values below 20µS/cm from typical tap water. Additional equipment like various tank sizes and pressure pumps can be integrated with the system to create a solution tailored to customers' individual needs. Configurable as a central water treatment system, the Protegra CS Pro RO can be paired with accessories to create a closed-circuit pipeline, efficiently supplying water to multiple point of use locations within the building.

Benefits

- Enhanced data connectivity
- User-friendly 7-inch touchscreen display
- Compact service-friendly design, operable from all sides
- Optional LED signal lights provide a visual indication of system status
- Optional Modbus® TCP Gateway interface for connectivity to a Building Management System (BMS)
- Data transfer via USB port, microSD-port for firmware updates and uninterrupted data recording
- 3 configurable changeover relays for signal routing
- Made in Germany

Typical Applications

- Feed for laboratory ultrapure water systems
- General chemistry
- Laboratory washing machines
- Water for autoclaves and environmental chambers
- Buffer preparation



Specifications

Technical Specifications

Protegra CS Pro RO		200	350	500	750	1000	1200
Pure water output	l/h	150-200	200-350	350-500	500-750	750-1000	1000-1200
Silicate	mg/l	< 15	< 15	< 15	< 15	< 15	< 15
Yield max.	%	80	80	80	80	80	80
Power consumption	kW	0.6	0.6	1.4	2.5		
Electrical connection		3~/N/PE AC 400V, 50/60Hz					
Dimensions (H x W x D)	mm	1795x545x650		1795x665x650		1795x780x650	
Operating pressure	bar	6-14	6-14	6-14	6-14	6-14	6-14
Catalog number		W3T609823	W3T609824	W3T609825	W3T609826	W3T609827	W3T609828

Systems with higher flowrate on demand.

Feed Water Specifications

Protegra CS Pro RO		200	350	500	750	1000	1200
Pressure	bar	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0
Feed water flow rate max.	l/h	260-400	460-750	650-1000	1000-1500	1300-1900	1500-2000
Conductivity	µS/cm	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Free chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CO ₂	mg/l	< 20	< 20	< 20	< 20	< 20	< 20
TOC	ppb	< 1500	< 1500	< 1500	< 1500	< 1500	< 1500
Silt density index (SDI)		< 3	< 3	< 3	< 3	< 3	< 3
Langelier index (LI)		< 0	< 0	< 0	< 0	< 0	< 0
Silicon oxide	mg/l	< 15	< 15	< 15	< 15	< 15	< 15
Iron	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Manganese	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
pH		3-9	3-9	3-9	3-9	3-9	3-9
Temperature	°C	5-35	5-35	5-35	5-35	5-35	5-35

Consumables

Catalog Number	Description
W2T526933	Activated carbon filter cartridge*
W2T526551	Fine filter cartridge 5 µm Big Blue* ²
W2T522516	RO module
W2T505074	Outlet filter

*: Only for systems 200 and 350 l/h; *²: Only for systems 500 l/h and up

Accessories

Catalog Number	Description
W3T570885	Modbus TCP Gateway (LAB)
W3T307039	LED signal light (red, yellow, green)
W3T262426	Degassing unit (120 - max. 5000 l/h)

Test Kits

Catalog Number	Description
W2T870161	Testkit Carbon dioxide
W2T870160	Testkit Silica

Tanks

Catalog Number	Description
W3T199996	200 l, 550 x 1040 mm
W3T197508	300 l, 650 x 1080 mm
W3T198133	500 l, 770 x 1230 mm
W3T198836	750 l, 720 x 720 x 1700 mm
W3T198753	1000 l, 780 x 780 x 1940
W3T199591	1650 l, 2085 x 720 x 1400 mm
W3T199890	2000 l, 2180 x 720 x 1700 mm
W3T199834	3000 l, 2230 x 850 x 2200 mm

Xylem ['zīləm]

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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