

PURE WATER SYSTEMS

Crystal Clinic

The Crystal Clinic water purification system is designed to provide purified water to automated biochemistry analyzers. Purified water ensures long-term, reliable operation from a biochemistry analyzer.

Water produced from the Crystal Clinic has a resistivity of 10

MegaOhm*cm. This exceeds the manufacturers' requirements for feed water to biochemistry analyzers. A double RO module and pressurized 60L tank ensure a stable and reliable supply of water. The Crystal Clinic systems are equipped with a pressure regulator. Purified water pressure is

precisely adjusted to the requirements of the analyzer.

The Crystal Clinic has two reverse osmosis modules and a high-capacity deionization cartridge (DI). The large DI cartridge volume significantly reduces operating costs.

Water purified by the reverse osmosis modules is collected in the storage tank. The water is then polished to 10 MegaOhm*cm by the deionization module. The two reverse osmosis modules enable a high flow rate through the permeable membranes, ensuring that purified water is always available.

A large LCD display provides information about the system status, water quality, and pre-filter life. The Crystal Clinic has two water quality sensors. The first sensor controls the quality of water filling the storage tank. This is shown on the LCD display while the tank is being filled. The second sensor controls the quality of water supplied to the Biochemical Analyzer. The Crystal Clinic system automatically monitors the performance of the deionization module and alerts the operator when the DI module needs replacement.

The DI module and pre-filter can be replaced by the operator. No tools required!

The Crystal Clinic has a Pure water dispense port on the front panel. Pure (Grade 2) water can be used for general laboratory applications.

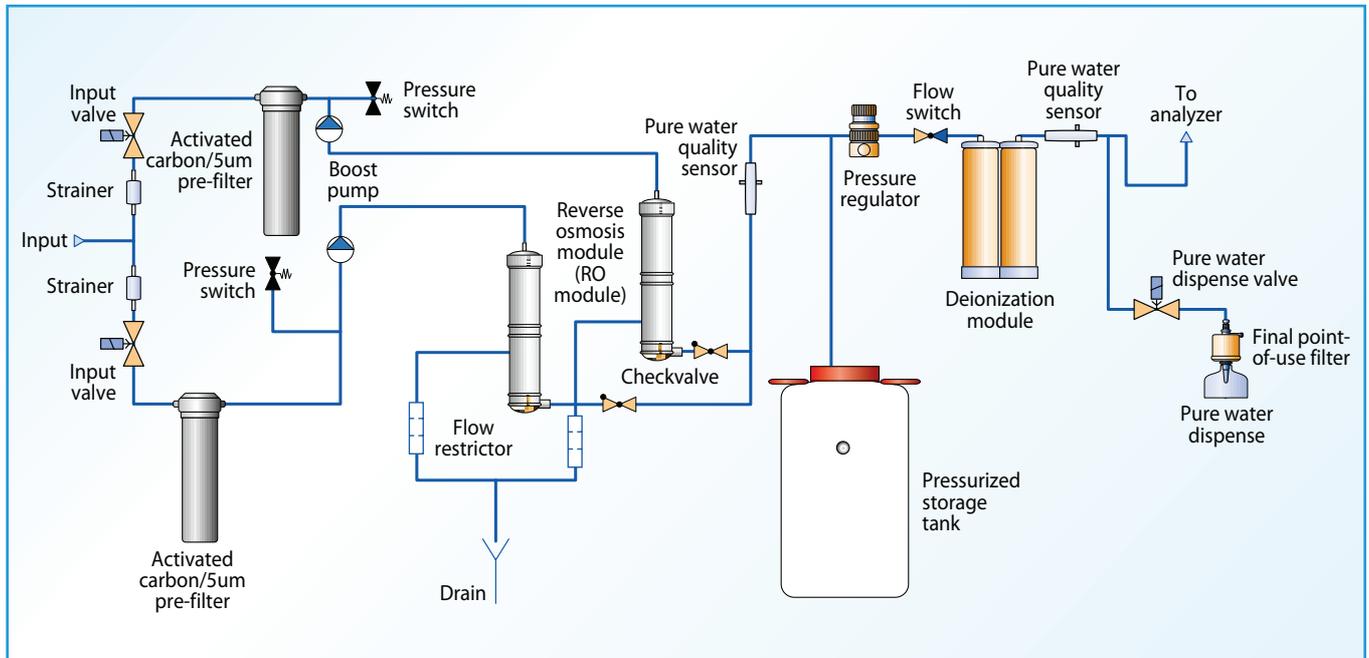


Pictures are for reference only. Depending on configuration, some options may not be present

Specifications

Purified water specifications	Crystal E Clinic
Grade 2 water resistivity	>10 MΩ x cm
Grade 2 water conductivity	<0.1 μS/cm
Particles > 0.22 μm	<1 per mL
Nominal flow, pure water (to storage tank)	28 L/h
Dispense flow to analyzer	4 L/min
Dispense pressure	100 kPa
Deionization module life (high capacity module)	3 m ³
Recovery	>30 %
Dimensions (WxDxH), cm	40x50x55
Pressurized storage tank	60 L
Tank' dimensions, cm	42x42x60
Feed water pressure	0.5 – 5 bar
Feed water conductivity	< 900 μS/cm

Flow diagram



Components

Part number	Accessory	Crystal Clinic
10039	Pre-filter set for chlorine and organics reduction	+
	Boost pumps	+
	Reverse osmosis modules	+
10101	High capacity deionization module	+
10102	UV sterilization module	option

Ordering Information

Model	Part number
Crystal Clinic	CL-2810

Consumables

Part number	Description	Replacement criteria	Comments
10039	Replacement pre-filter set, Crystal Clinic	Filter life counter is zero or the filter is clogged	
10113	Replacement high-capacity deionization module	„DI Err” message is shown, or dispense water conductivity > 0.1 µS/cm	
10011	Replacement sterilization UV bulb	As required (on average every 3 years)	Only for systems equipped with 10102