



Water Purification System



Crysta Series

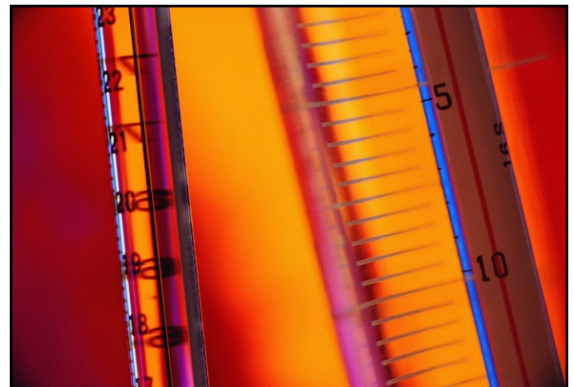
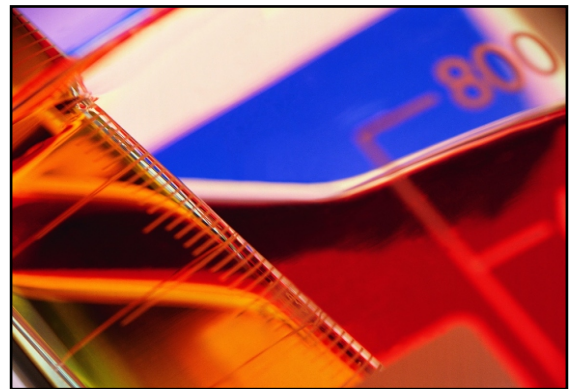
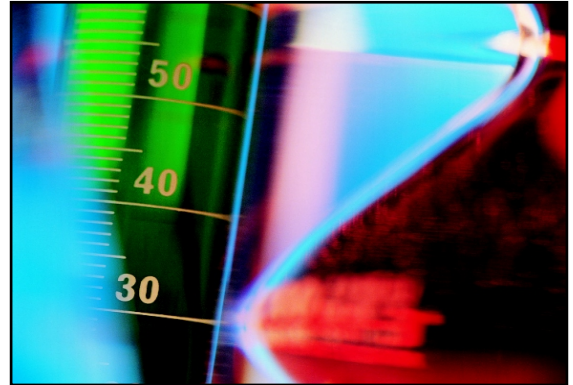
Water Purification System

■ The Crysta Series

The **Crysta Series** is a line of water purification systems complementary to Aurora's existing line of high precision instruments. The Crysta 500, 1000, and 2000 purification systems were developed to produce high quality pure water that serve three areas of scientific applications. These areas range from general pure water use in buffer preparation and high purity glassware rinsing to critical use in high performance liquid chromatography and polymerase chain reactions.

Aurora's Crysta Series can deliver better technical results in your experiments. All three water purification models produce highly purified water, meeting ASTM and CLSI international clinical laboratory standards. The Crysta 500, 1000 and 2000 systems each feature a unique network of filtration mechanisms developed to produce high quality Type 1 and Type 2 pure water. The Crysta Series yields low levels of organic carbon concentrations that will maximize your lab water purity.

The Crysta Series will consistently deliver highly purified water for your lab. With special features such as walk-away unattended operation, real time display of purity levels, and innovative cartridge monitoring systems, the Crysta Series is a proven high performance purification system that will meet and surpass the demands of any of your pure water needs.



■ Industry Applications

- Universities and government
- Contract research organizations
- Biotech and pharmaceutical companies
- Agriculture and environmental testing

Key Features and Benefits

■ Convenience & Control

The Crysta Series is a high quality water purification system that allows the research scientist to consistently produce pure lab water for any experimental application. Crysta produces only the highest grade of Type 1 and Type 2 purified water that can be used to deliver better technical results. This allows for total convenience and complete purity control for any of your research needs.

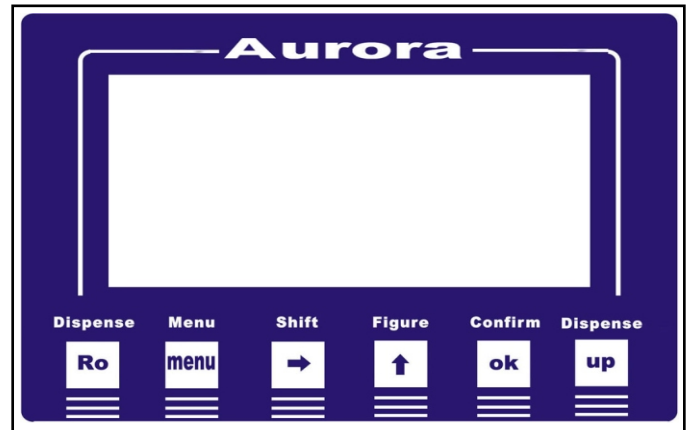
- Timed-dispense mode for convenient walk-away unattended operation
- Real-time display of water resistivity, outlet temperature, remaining cartridge longevity, total dissolved solid concentrations of both inlet and outlet water
- High quality pure lab water delivered at a desalination and virus elimination rate of $\geq 99\%$



■ Quality & Value

The Crysta Series was developed with a stepwise filtration system that allows for exceptional water purifying efficiency. It produces water at purity levels meeting ASTM and CLSI clinical laboratory standards and extended cartridge longevity features that maximize Crysta's quality, precision and value for scientific application.

- Mixed Bed Resin Cartridges use cation and anion resins to effectively remove dissolved solids and ionic material
- Activated Carbon Filters add an extra layer of filtration to remove turbidity and chlorine that may damage filter membranes
- Terminal and 5 μm cotton spun fiber filters remove low molecular weight dissolved solids using microporous filtration



■ Performance & Technology

All three models in Aurora's Crysta Series are high performance, quality laboratory purification systems. Crysta features an innovative cartridge monitoring system that lets the research scientist set filter longevity based off of their own purity standards. This will ensure that only the purist water will be used to produce the best technical results for your experiments.

- Innovative cartridge monitoring system based off of users individual purity demands
- One touch automatic dispensing option in multiple modes at a reliable and robust rate
- Crysta 500 systems automatically produce reverse osmosis water for storage in its internal tank and feature an automatic RO Membrane flush feature after each dispensing that extends cartridge longevity



Applications and Specifications

Crysta-500

General Applications

- High Purity Glassware Rinsing
- Microbiology Media Preparation
- Buffer Preparation
- pH Solution Preparation

Crysta-1000

Analytical Applications

- Ion Chromatography
- Atomic Absorption Spectroscopy
- Electromagnetic Spectroscopy

Crysta-2000

Critical Applications

- PCR
- HPLC
- Electrophoresis
- Solid Phase Extraction
- TOC Analysis

	Crysta-500	Crysta-1000	Crysta-2000
OUTPUT (25°C)	15 L/hr	1.5-2.0 L/min	1.5-2.0 L/min
INLET WATER REQUIREMENT	Tap water	RO/Deionized Water	RO/Deionized Water
PURE WATER SPECIFICATIONS			
RO water TDS	5-10 ppm		
Pure water resistivity (@ 25°C)	13-17.5 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
Total organic carbon	<30 ppb	<10 ppb	<3 ppb
Heavy metal concentration	<0.1ppb	<0.1ppb	<0.1ppb
Distilled/deionized water resistivity		>3 MΩ-cm	>3 MΩ-cm
Viruses		<1 cfu/ml	<1 cfu/ml
Particles (>0.22µm)		<1/ml	<1/ml
Endotoxins			<0.001 Eu/ml
FILTRATION SYSTEM			
5µm spun fiber filter	+		
Kinetic degradation flexion filter	+		
100 GPD RO membrane	+		
Granular activated carbon filter	+		
Mixed bed resin cartridge	+	+	+
Post activated carbon filter	+	+	+
Ultrapure polishing resin cartridge		+	+
0.2µm PES terminal filter		+	+
Double wavelength UV (185nm & 254nm)			+
5000 Doultons UF cartridge			+
POWER	110V-240V / 50-60Hz	110V-240V / 50-60Hz	110V-240V / 50-60Hz
DIMENSION	50cm * 36cm * 54cm	50cm * 36cm * 54cm	50cm * 36cm * 54cm
WEIGHT	20-30 Kg	20-30 Kg	20-30 Kg

NOTE: Instrument specifications may change without notice as an ongoing effort of product improvement.

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