

Crystal EX

The Adrona Crystal EX system is a multi-purpose water purification system. The Crystal EX system is able to produce both Grade I and Grade II water. The system is based on reverse osmosis and ion exchange technologies optimized to best quality. Crystal EX has a good price/performance ratio and very low operation costs.



Specification:

- High quality components
- Low operating costs
- Simple installation and maintenance
- Convenient user interface

Application:

Application	Crystal EX Trace	Crystal EX HPLC	Crystal EX Bio
Reagent preparation	•	•	•
Flame AAS	•	•	•
Autoclaves	•	•	•
Plasma mass-spectrometry (ICPMS)	•	•	•
Plasma spectrophotometry (ICPOES)	•	•	•
Ion chromatography	•	•	•
Liquid chromatography (HPLC/ UHPLC)		•	•
Gas chromatography		•	•
Flow cytometry			•
Cell culture			•
Molecular biology			•

Technical parameters:

Parameters	Crystal EX Trace	Crystal EX HPLC	Crystal EX Bio
Grade 1 water resistivity	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water resistivity	>10 MΩ x cm	>10 MΩ x cm	>10 MΩ x cm
Grade 2 water conductivity	<0.1 μS/cm	<0.1 μS/cm	<0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<2 ppb	<2 ppb
RNase	–	–	<0.01 ng/mL
DNase	–	–	<4 pg/μL
Bacteria	<1 CFU/mL	<1 CFU/mL	<0.1 CFU/mL
Endotoxins	<0.15 EU /mL	<0.15 EU /mL	<0.001 EU /mL
Particles >0.22 μm	<1/mL	<1/mL	<0.05/mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Dispense rate, ultrapure water	<2 L/min	<2 L/min	<2 L/min
Deionization module life (standard)	1 m ³	1 m ³	1 m ³
Deionization module life (high capacity)	3 m ³	3 m ³	3 m ³
Recovery	>30%	>30%	>30%
Dimensions (WxDxH), cm	40x35x55	40x35x55	40x35x55
Weight, kg	17	18	19
Feed water pressure	0.4 – 4 bar	0.4 – 4 bar	0.4 – 4 bar
Feed water conductivity	<1500 μS/cm	<1500 μS/cm	<1500 μS/cm