

CRYSTAL EX

Adrona Crystal EX produces ultrapure and pure water. This multipurpose water purification system is highly appreciated due to the very affordable price.



ORDERING INFORMATION

Model	Part number
Crystal EX Trace	EX-1001
Crystal EX HPLC	EX-1101
Crystal EX Bio	EX-1201

DESCRIPTION EX SERIES

	Trace	HPLC	Bio
Water type	<ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2) 	<ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2) 	<ul style="list-style-type: none"> ultrapure water (Grade 1) pure water (Grade 2)
Application	<ul style="list-style-type: none"> atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	<ul style="list-style-type: none"> chromatography mass spectrometry microbiology molecular biology 	highly sensitive biology applications
Display	Monochrome LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	-	-
Measurement validation port	-	-	-
Volumetric dispensing	-	-	-
Connection to Flow point	-	-	-
Storage tank	required but not included		
Installation	installable on a laboratory bench		

SPECIFICATIONS

	Crystal EX Trace	Crystal EX HPLC	Crystal EX Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water resistivity at 25 °C	>10 MΩ x cm	>10 MΩ x cm	>10 MΩ x cm
Grade 2 water conductivity at 25 °C	<0.1 μS/cm	<0.1 μS/cm	<0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<2 ppb	<2 ppb
RNase	N/A	N/A	<0.01 ng/mL
DNase	N/A	N/A	<4 pg/μL
Bacteria	<0.01 CFU/mL	<0.01 CFU/mL	<0.01 CFU/mL
Endotoxins	<0.15 EU/mL	<0.15 EU/mL	<0.001 EU/mL
Particles >0.22 μm	<1 per mL	<1 per mL	<1 per mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Deionization module life (standard module)	1 m ³	1 m ³	1 m ³
Recovery	>30 %	>30 %	>30 %
Dimensions (WxDxH), cm	40x35x55	40x35x55	40x35x55
System weight, kg	17	18	19
Operation weight, kg	24	25	26
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

CONSUMABLES

Part number	Description	Replacement criteria	Comments
10320	Replacement pre-filter, Crystal EX	Filter life counter is zero or the filter is clogged	
10310	Replacement deionization module	„DI Err” message is shown, or water conductivity is consistently > 0.5 μS/cm	
10030	Polishing module “Polishing+”	Every 1–2 years, depending on operation	
10017	Replacement sterilization UV bulb	When required (on average every 2 years)	„Bio” systems only
10018	Replacement photooxidation UV bulb	2 years on average	„HPLC” and „Bio” systems only
10012	Replacement 0.22 μm dispense microfilter	Every 6–12 months	„Trace” and „HPLC” systems
10120	Replacement ultrafilter	Every 3–6 months	„Bio” systems only

FLOW DIAGRAMS

