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

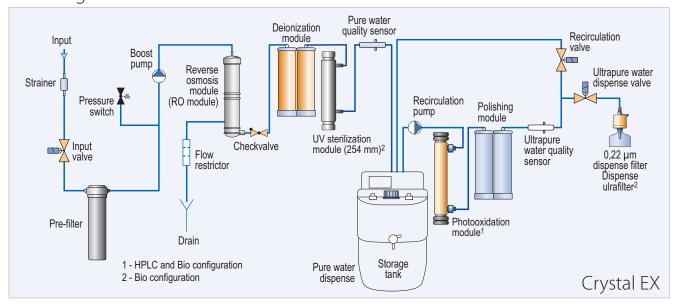
Model	Part number		
Crystal EX Trace	EX-1001		
Crystal EX HPLC	EX-1101		
Crystal EX Bio	EX-1201		



Consumables

Part number	Description	Replacement criteria	Comments
10320	Replacement pre-filter	If the filters are clogged or every 6 months	
10310	Replacement deionization module	Grade 2 water conductivity is > 0.5 μm/cm constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is > 0.1 μm/cm constantly or every 12 months	
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
10013	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 diagram



Description EX series

	Trace	HPLC	Bio
Water type	ultrapure water (Grade 1)pure water (Grade 2)	ultrapure water (Grade 1)pure water (Grade 2)	ultrapure water (Grade 1)pure water (Grade 2)
Application	 atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	chromatographymass spectrometrymicrobiologymolecular biology	highly sensitive biology applications
Display		Monochrome LCD display	
Conductivity sensor	•	•	•
TOC Monitor	-	-	-
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 M Ω x cm	$>$ 10 M Ω 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	<5 ppb*	<5 ppb*
RNase	-	-	<0.01 ng/mL
DNase	-	-	<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
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

^{*} In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.