

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

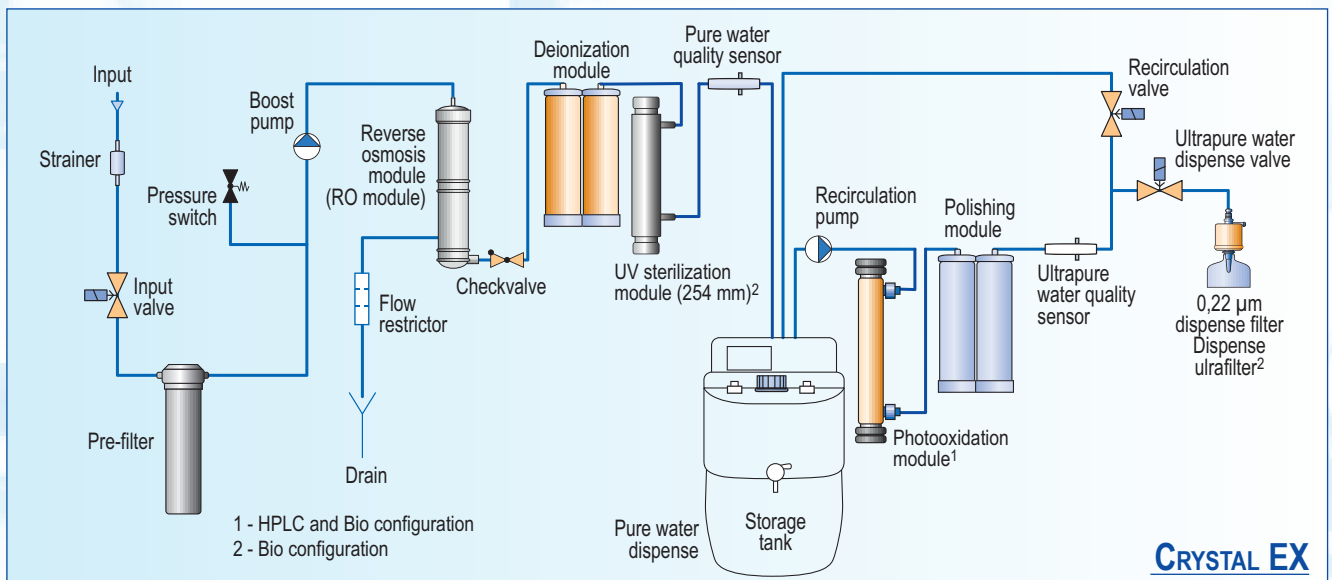
Model	Part number
Crystal EX Trace	EX-1001
Crystal EX HPLC	EX-1101
Crystal EX Bio	EX-1201



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 $> 0.5 \mu\text{m/cm}$ constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \mu\text{m/cm}$ 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
10012	Replacement $0.22 \mu\text{m}$ dispense microfilter	Every 6–12 months	„Trace” and „HPLC” systems
10120	Replacement ultrafilter	Every 3–6 months	„Bio” systems only

FLOW DIAGRAM



CRYSTAL EX

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	-	-	-
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	<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.