

Q-FRONT



Adrona's products Q-Front 5/10 are ultrapure water systems in which water deionization and polishing are provided by one ion exchange cartridge. It simplifies servicing of the system and decreases the unit cost.

RO permeate water is stored in the tank and delivered to polishing loop by the pump.

Grade 1 water can be dispensed by attached dispenser. It includes volumetric dispense function. All well-known Grade 1 systems configurations - Trace, HPLC and Bio are available.

Description

	Q-Front Trace	Q-Front HPLC	Q-Front Bio
Q-Front water type	<ul style="list-style-type: none"> ultrapure water (Grade 1) RO water 	<ul style="list-style-type: none"> ultrapure water (Grade 1) RO water 	<ul style="list-style-type: none"> ultrapure water (Grade 1) RO water
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 	<ul style="list-style-type: none"> highly sensitive molecular biology cell culture other methods sensitive to RNase and endotoxins biology applications
Display	colour graphic LCD display		
Water quality sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispense	•	•	•
Dispenser	flexible dispenser attached		
Connection to Flow point	•	•	•
Storage tank	storage tank required, but not included		
Installation	installable on a laboratory bench		

Consumables

Part number	Description	Replacement criteria	Comments
10410	Replacement pre-filter	If the filters are clogged or every 6 months	
10030	"Polishing+" module	Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months	
10017	Sterilization UV bulb	2 years on average	"Bio" configuration
10018	Photooxidation UV bulb	2 years on average	"HPLC" and "Bio" configuration
10013	Replacement 0.22 µm dispense filter	Every 6–12 months	"Trace" and "HPLC" configuration
10120	Replacement ultrafilter	Every 3–6 months	"Bio" configuration



Ordering information

Model	Part number
Q-Front 5 Trace	QF-3101
Q-Front 10 Trace	QF-3201
Q-Front 5 HPLC	QF-3103
Q-Front 10 HPLC	QF-3203
Q-Front 5 Bio	QF-3105
Q-Front 10 Bio	QF-3205

Specifications

	Q-Front system configuration		
	Trace	HPLC	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
TDS rejection rate	≥97%	≥97%	≥97%
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/mL	<1/mL	<0.05/ per mL
Feed water pressure	0.4 - 6 bar	0.4 - 6 bar	0.4 - 6 bar
Data interface	RS 232	RS 232	RS 232
Dimensions (WxDxH), cm	35x39x54	35x39x54	35x39x54
System weight, kg	25	26	27
Operation weight, kg	28	29	30

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

Flow diagram

