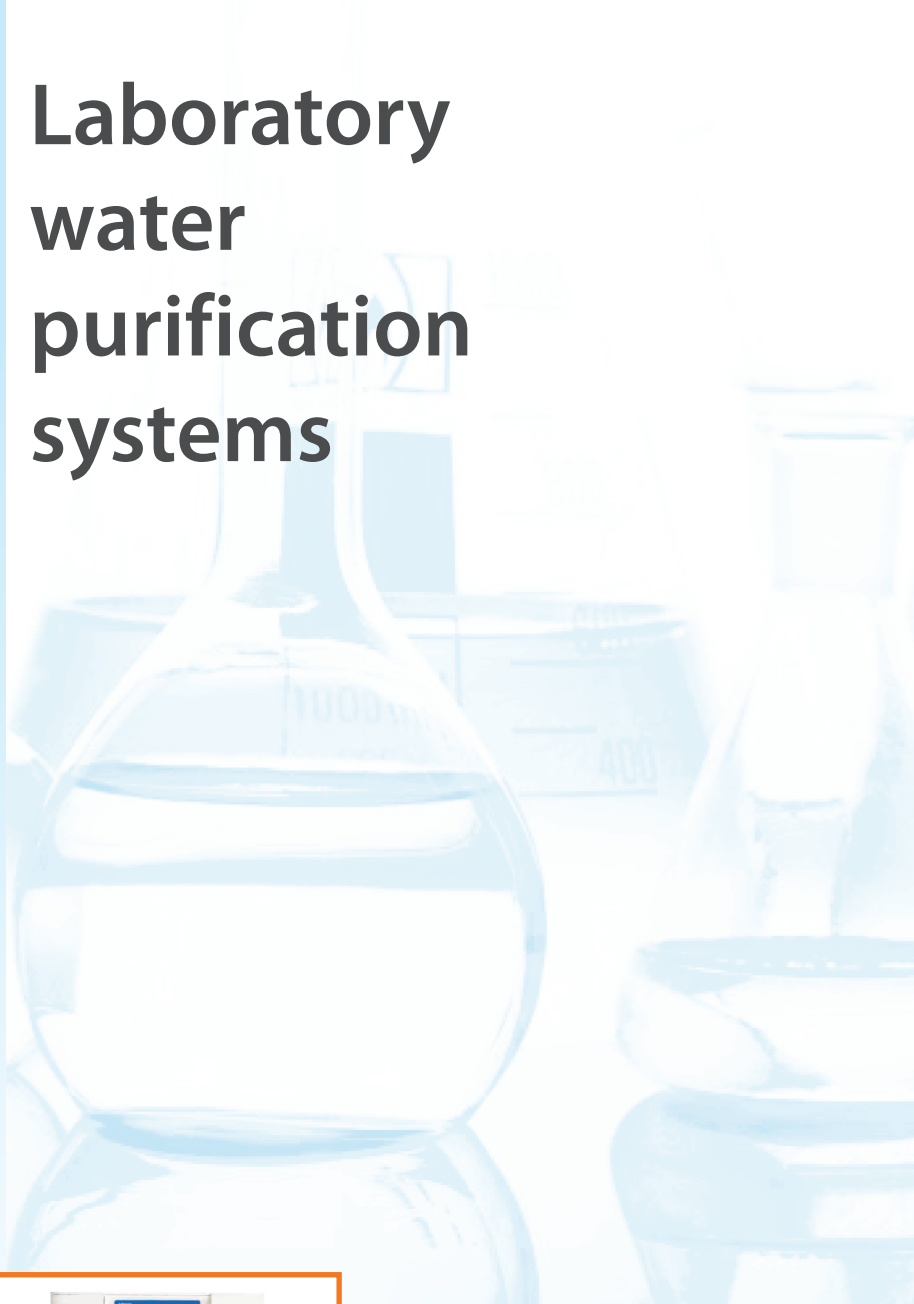


Laboratory water purification systems



Q-FRONT 10

Adrona's products Q-Front 10 are ultrapure water systems where 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, including volumetric dispensing. 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 Bio UF
Q-Front water type	<ul style="list-style-type: none"> • ultrapure water (Grade 1) • RO water (Grade 3) 	<ul style="list-style-type: none"> • ultrapure water (Grade 1) • RO water (Grade 3) 	<ul style="list-style-type: none"> • ultrapure water (Grade 1) • RO water (Grade 3) 	
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	-	•	•	•
Measurement validation port	•	•	•	•
Volumetric dispense	•	•	•	•
Dispenser	flexible dipenser attached			
Connection to Flow point*	•	•	•	•
In-line ultrafilter	-	-	-	•
Storage tank	tank "Pro" 30 L included, other tanks optional			
Installation	installable on a laboratory bench			

* Dispenser-ready configuration required



SPECIFICATIONS

	Q-Front (EDI) system configuration			
	Trace	HPLC	Bio	Bio UF
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	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	0.055 μS/cm
Grade 2 water conductivity at 25 °C	0.1 μS/cm	0.1 μS/cm	0.1 μS/cm	0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<2 ppb	<2 ppb	<2 ppb
RNase	-	-	<0.01 ng/mL	<0.01 ng/mL
DNase	-	-	<4 pg/μL	<4 pg/μL
Bacteria	<0.01 CFU/mL	<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	<0.001 EU /mL
Particles >0.22 μm	<1/mL	<1/mL	<0.05/mL	<0.05/mL
Nominal RO water to storage tank	10 L/h	10 L/h	10 L/h	10 L/h
Dispense rate, ultrapure water	<2 L/min	<2 L/min	<2 L/min	<2 L/min
Deionization module life*	1 m ³ *	1 m ³ *	1 m ³ *	1 m ³ *
Feed water pressure	0.4 - 6 bar	0.4 - 6 bar	0.4 - 6 bar	0.4 - 6 bar
Data interface	RS 232	RS 232	RS 232	RS 232
Dimensions (WxDxH), cm	35x39x54	35x39x54	35x39x54	35x39x54
System weight, kg	25 (27)	26 (28)	27 (29)	27 (29)
Operation weight, kg	28 (31)	29 (32)	30 (33)	30 (33)

FLOW DIAGRAM

