

Q-FRONT

The newest pure and ultrapure water system with maximum features, convenience and performance. This is the essence of know- hows and experience of Adrona engineers obtained during the decades. Choose between 3 configurations to fit all specific laboratory needs.

DESCRIPTION

	Q-Front Trace	Q-Front HPLC	Q-Front 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 	<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	option	•	•
Measurement validation port	•	•	•
Volumetric dispense	•	•	•
Connection to water dispensing unit "Flow Point"	Flow Point included in price	Flow Point included in price	Flow Point included in price
Storage tank	tank "Pro" 25 L included, other tanks optional		
Installation	installable either on a laboratory bench or on a wall		

ORDERING INFORMATION

Model	Part number
Q-Front Trace	AB-4101
Q-Front HPLC	AB-4103
Q-Front Bio	AB-4105
Water quality sensor validation kit	10913
Electrodeionization module (for B30)	410107
Software compliant to GLP & CFR 21	410162
IQ/OQ documentation	10141

SPECIFICATIONS

Purified water parameters	Q-Front system configuration		
	Trace	HPLC	Bio
Grade 1 water resistivity	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water resistivity	10 MΩ x cm	10 MΩ x cm	10 MΩ x cm
Grade 2 water conductivity	0.1 μS/cm	0.1 μS/cm	0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<2 ppb	<2 ppb
RNase	-	-	<0.01 ng/mL
DNase	-	-	<4 pg/μL
Bacteria	< 1 CFU/mL	< 1 CFU/mL	< 1 CFU/mL
Endotoxins	<0.15 EU /mL	<0.15 EU /mL	< 0.001 EU /mL
Particles >0.22 μm	<1/mL	<1/mL	<1/mL
Deionization module life	1 m ³	1 m ³	1 m ³
Feed water pressure	0,5 – 4 bar	0,5 – 4 bar	0,5 – 4 bar

CONSUMABLES

Part number	Description	Replacement criteria	Comments
10310	Deionization module	When indicated on the display or water conductivity is constantly $> 0.1 \mu\text{S/cm}$ during tank filling stage	
10029	Polishing module	When indicated on the display or water conductivity is constantly $> 0.1 \mu\text{S/cm}$ during recirculation	
10030	Polishing module "Polishing+"	When indicated on the display or water conductivity is constantly $> 0.1 \mu\text{S/cm}$ during recirculation	
10319	Pre-filter set	Every 6 months or when pre-filters are clogged	
10018	UV photooxidation bulb	2-3 years on average	Only for „Bio“ and „HPLC“
10012	Point-of-use microfilter	Every 6–12 months	Only for „Trace“ and „HPLC“
10120	Point-of-use ultrafilter	Every 6–12 months	Only for „Bio“
10011	UV sterilization bulb	When required (on average every 3 years)	Only for „Bio“

FLOW DIAGRAM

