CHIMICA CENTRO
ADDED VALUE LAB SOLUTIONS

Q-FRONT N

Q-Front N is an excellent choice for your laboratory, providing both Grade 1 and Grade 2 water directly from tap water.

With Q-Front N series we have introduced new tool-free quick connectors for effortless cartridge replacement and a redesigned flexible dispenser, ensuring ergonomic and convenient daily operation.

Like the other Adrona water purification systems, Q-Front N is available in Trace, HPLC and Bio configurations to meet the specific needs of every laboratory and application.

Consumables

Part number	Description	Replacement criteria	Comments
10411	Pre-filter Q w/ quick connectors	If the filters are clogged or every 6 months	
10311	Deionization Q w/ quick connectors	Grade 2 water conductivity is > 0.5 µm/cm constantly or every 12 months	
10031	Polishing Q w/ quick connectors	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

Water quality specifications by Q-Front N

	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
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	<0.05/ per mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Dispense rate, ultrapure water	1.5–2 L/min	1.5–2 L/min	1.5–2 L/min
Dimensions (WxDxH), cm	35x39x54	35x39x54	35x39x54
System weight, kg	27	28	29
Operating weight, kg	30	31	32

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

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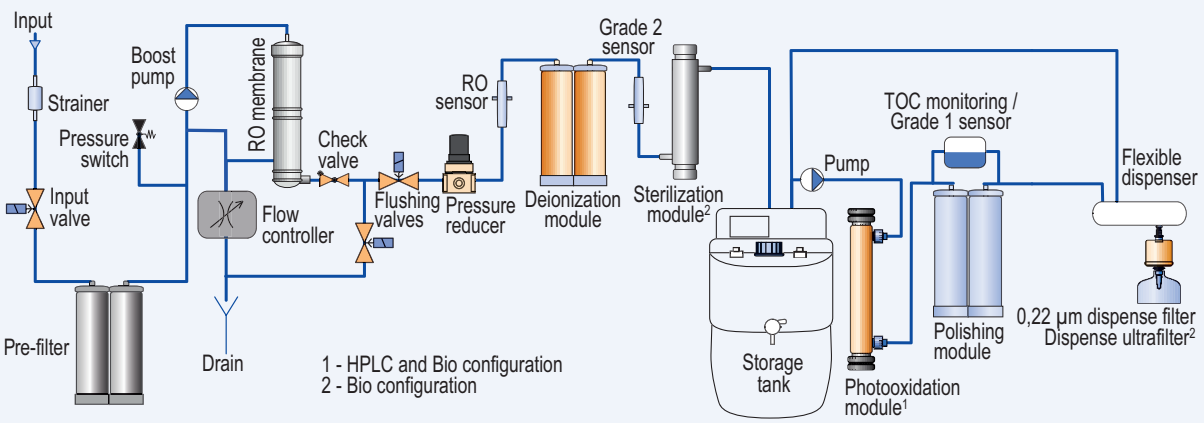
Ordering information

Model	Part number
Q-Front N Trace	QF-2301
Q-Front N HPLC	QF-2303
Q-Front N Bio	QF-2305

Description

	Q-Front N Trace	Q-Front N HPLC	Q-Front N Bio
Q-Front N 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	• chromatography • mass spectrometry • microbiology • molecular biology	• 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		

Flow diagram



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