PRODUCT CATALOGUE

2024

Laboratory water purification systems

adrona

WATER PURIFICATION SYSTEMS

Adrona water purification systems provide ultrapure (Grade 1), pure (Grade 2) and reverse osmosis (RO) water for laboratory needs. The quality of water meets the requirements of ISO 3696 standard and corresponding ASTM and CLSI standards.

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Central laboratory systems		
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ADRONA Laboratory ultrapure water system features

	Compact	Crystal EX	Q-Front	E30 Q-Front N Q-Front EDI	Integrity+	Gradus B300 B310	Connect Onsite+	Connect LT
Feed water	Tap water	Tap water	Tap water	Tap water	Tap water	Tap water	Pre- treated	Pre-treated
Produced water	RO¹/ Grade 2	Grade 2 Grade 1	RO Grade 1	Grade 2 Grade 1	Grade 1	RO ² Grade 2 Grade 1	Grade 1	Grade 1
Display	Mono- chrome	Mono- chrome	Colour	Colour	Colour	Touch- screen	Colour	Touch- screen
TOC monitor	-	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓
Volumetric dispense	-	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Data Interface	-	-	RS232	RS232	RS232	Ethernet USB	RS232	Ethernet USB
Dispense reports	-	-	-	-	-	✓	-	✓
Data storage	-	-	-	-	-	\checkmark	-	\checkmark
GLP	-	-	-	-	-	\checkmark	-	\checkmark
Remote diagnostic	-	-	-	-	-	\checkmark	-	✓

¹ Compact RO

 $^{1\}quad \text{Depending on the model, water purification systems can produce ultrapure and pure water or RO and pure water.}$

OVERVIEW

Adrona provides laboratory water solutions to any application – starting from reverse osmosis (RO) water for simple washing and autoclave feed to Pure water (Grade 2) for general laboratory use or Ultrapure water (Grade 1) for highly sensitive applications.

The systems are manufactured based on more than two decades of experience in laboratory water purification, using verified configurations and high grade components and materials.

The systems are installable by user and all cartridges and filters are user-replaceable. The initial set of consumables is delivered with each of our water system.

Part of Adrona's water purification systems can be installed either on a laboratory bench or on a wall. Wallmount installation provides savings of valuable laboratory space.

The new Gradus, Connect LT and B300 systems are GLP compliant.

Volumetric Dispense

Depending on a model, Adrona water purification systems feature a volumetric dispenser, which enables the user to set accurate dispensing volume for each dispense cycle. The dispense volume can be set either from the keyboard or by using "teaching" mode. In "teaching" mode user uses "Dispense On/OFF" button to do the first dispense cycle manually. Afterwards, the system will dispense exactly the same volume each time the user presses the dispense button again.

Water Quality and Validation

Embedded recirculation loop ensures stable premium water quality and enables practical elimination of Total Organic Carbon (TOC).

Performance of deionization and polishing modules is constantly monitored. Monitoring algorithm enables cutting running costs, as replacement of the modules is requested only when service life is close to the end.

Water quality stability is achieved with the double lon Exchange cartridge system, which ensures excellent water quality even if one of the cartridges needs to be replaced.

Purified water quality of all our water purification systems can be validated by an external conductometer with flow cell which can be ordered from Adrona or bought locally.

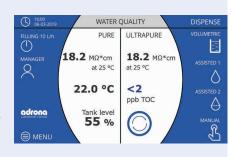
Conformity of the systems to their specifications is provided in case the systems are properly installed and maintained.

Total Organic Carbon (TOC) Monitor

Organic contaminants may not have effect on conductivity of water, so conductivity sensors cannot be used for TOC monitoring. Therefore, a special TOC monitoring module is needed to measure TOC level. Several models of Adrona water purification systems have the TOC monitor feature. TOC values are shown on display.

Large touchscreen

Simplified and detailed information in multiple languages. Alarms and alerts are visible on the main screen with a complete information on actions required. Monitoring the operation system.



Displays

Provide clear water quality readout and information about the system status including current resistivity and remaining pre-filter service life.

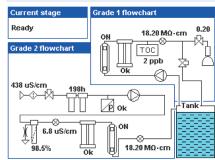
Colour graphic LCD display



Monochrome LCD display



System flowchart shows all component status and water quality parameters at a glance. Image can vary depending on model and its configuration.



Electrodeionization module

For laboratories with high water consumption Adrona offers Q-Front, RADIX, Gradus or Compact systems with an integrated EDI module. It allows to significantly reduce the running costs of water purification system due to EDI module which does not require replacement.

Safety

Adrona water purification systems feature all necessary safety functions. They are tested by an independent and accredited company for compliance

with the CE directives related to safety and electromagnetic compatibility.

Warranty and after-sales support

Adrona provides 2 year warranty and continuous support. High customer satisfaction is our top priority in every aspect of business. Adrona's support has been greatly appreciated by dealers worldwide for its reliability and willingness to help. Continuously having all spare parts in stock enables us to guarantee short reaction times and quickly resolve any technical issues. Our support team is always ready to

assist and in urgent cases dispatch the necessary components. Required repairs or technical maintenance is carried out by appropriately trained local personal or Adrona's service engineers. In addition to spare parts, we ensure the availability of all consumables for the lifetime of every water purification system installed.

Certification

ADRONA management system and manufacturing site operates in accordance with ISO 9001:2015. We are certified for manufacture, sale, and service of laboratory equipment.

Configurations According to Applications

Each Adrona model is available in various configurations according to the customer needs.

Water for laboratory needs		RO	Grade 2		Grade 1		
Applications		RO	Pure	EDI	Trace	HPLC/LT	Bio
	Glassware rinsing	•	•	•	•	•	•
	Laboratory washers	•	•	•	•	•	•
	Autoclaves	•	•	•	•	•	•
General	Electrochemistry		•	•	•	•	•
laboratory applications	Wet chemistry		•	•	•	•	•
	Spectrophotometry		•	•	•	•	•
	Buffer and media preparation		•	•	•	•	•
	Reagent preparation		•	•	•	•	•
	Flame atomic absorption spectrophotometry		•	•	•	•	•
Inorganic	Graphite automizer atomic absorption spectrophotometry				•	•	•
analysis methods	Plasma mass-spectrometry (ICP-MS)				•	•	•
	Plasma spectrophotometry (ICP-OES)				•	•	•
	lon chromatography				•	•	•
Organic	Liquid chromatography (HPLC/UHPLC)					•	•
analysis	HPLC-MS					•	•
methodes	Total organic carbon measurments					•	•
	Flow cytometry						•
Molecular Biology	Cell and tissue culture						•
2.0.09)	Molecular biology						•

COMPACT RO & PURE

The new Compact RO and Compact Pure series feature atmospheric or pressurized tank configurations, robust construction and reliable performance.

The water system has a space-saving design and a wide range of different tank sizes with pump dosing are available.

- Compact Pure produces reverse osmosis (RO) water with TDS rejection rate ≥97%, typically ≥98.5%.
 RO water applications include feed for laboratory equipment.
- Compact Pure produces pure Grade 2 water with a conductivity of < 0.1 μ S/cm. The applications of pure water are diverse, e.g. wet chemistry, feeding laboratory equipment, media preparation, spectrophotometry, etc.



 Compact EDI Pure produces pure Grade 2 water with a conductivity of<0.2 μS/cm, typically ≤0.1 μS/cm.
 Recommended for laboratories with high water consumption as the EDI module does not need to be replaced.

Specifications Compact RO & Pure

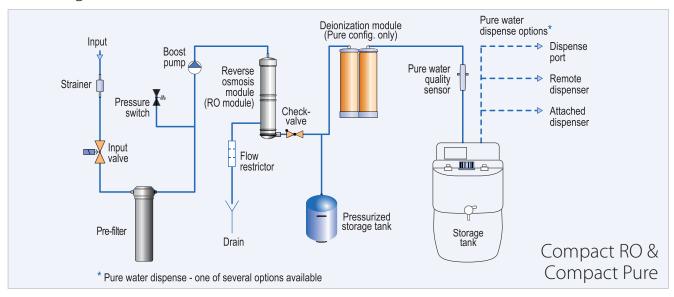
	Compact RO	Compact Pure	Compact EDI Pure	
Grade 2 water resistivity at 25 °C	N/A	>10 MΩ x cm	>5 MΩ x cm, typical ≥10 MΩ x cm	
Grade 2 water conductivity at 25 °C	N/A	<0.1 μS/cm	0.2 μS/cm, typical ≤0.1 μS/cm	
TDS rejection rate	≥97%	N/A	N/A	
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h 4 L/h (Pure 4)	5 / 10 / 15 L/h	
TOC monitor	-	-	-	
Volumetric dispense	-	-	-	
Dimensions (WxDxH), cm	23x30x41	23x30x41	23x30x41	
System weight, kg	10	12	11	
Operation weight, kg	11	15	12	
Dispenser	Optional, more information in "Accessories"			

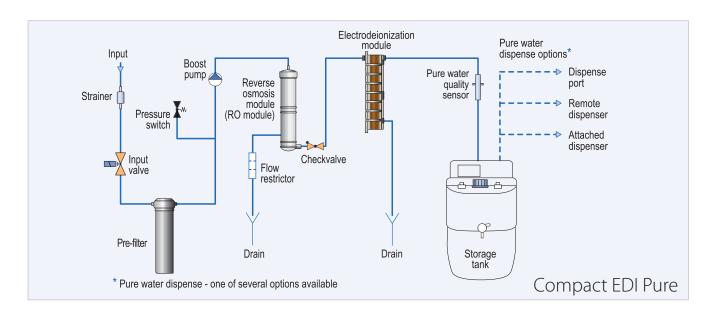
Consumables

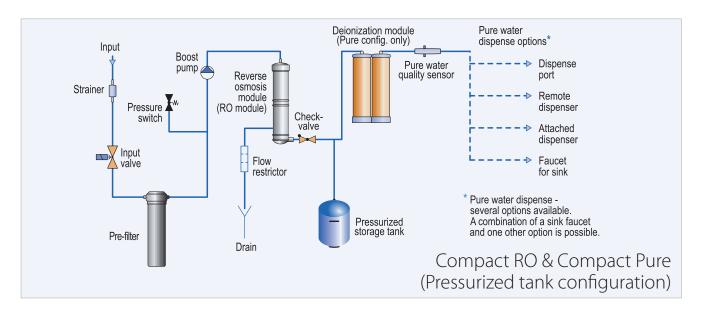
Part number	Description	Replacement criteria	Comments
10320	Pre-filter	When the filters are clogged or when filter timer has runed out, approximately, every 6 months	
10312	Deionization module	When warning symbol is present. Or when Grade 2 water conductivity is constantly >0.5 µm/cm	"Pure" system only

Ordering information

Model	Part number	Configuration
Compact RO	CT-1245	
Compact Pure	CT-1005	
Compact Pure 4	CT-1004	- Atmongraph avis
Compact 5 EDI Pure	CT-5100	Atmospheric
Compact 10 EDI Pure	CT-5200	
Compact 15 EDI Pure	CT-5300	
Compact RO	CT-1246	Drossurizad
Compact Pure	CT-1006	- Pressurized







GRADUS

Fully integrated pure and ultrapure intelligent water system. Superior quality of ultrapure and pure water is achieved directly from a tap water source.

Available in 2 configurations – deionization or EDI.



High efficiency removal of colloids, particles, free chlorine and minerals for improved system performance.



Removes remaining ions for consistently superior quality pure water. EDI system requires no maintenance, ensuring low and predictable costs.

Advanced reverse osmosis (RO)

Removes 97-99% contaminants including ions, particles, bacteria and organic molecules, reduces feed water consumpt for 60%.

Prior to water production

automatic rinsing of the RO membrane and the EDI module ensures that only the highest quality pure water enters the tank.



Attached G1 ultrapure water dispenser – delivers consistently ion free and low TOC ultrapure Grade 1 water.

Attached G2 pure water dispenser – delivers guaranteed quality Grade 2 pure water.

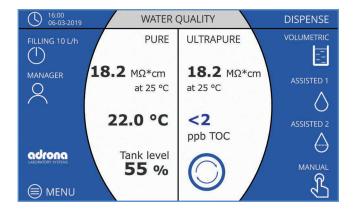
Within the tank, pure water quality is preserved by two built in features:

- Vent filter provides protection against airborne contaminants
- Automatic Sanitization Module with an integrated UVC regularly irradiates stored water and tank walls, preventing bacterial growth and biofilm formation.

Automatic recirculation of stored water through bacteridical UV lamp preserves water quality in the tank and ensures that high quality Grade 2 water is always on hand ready to use.

Polishing QC/QH Cartridge – removes ions and organic contaminants down to trace level.

Oxidation UV lamp – emitting 185 nm, photo-oxidises organic contaminants.



Intuitive touchscreen display

- New electronics and software.
- 7" colour touchscreen
- USB and Ethernet interface.
- Data storage on USB-C stick.
- Dispense report preparation.
- Monitoring the operation of the system.
- Touchscreen is suitable for use with gloves.
- Alerts and alarms are displayed on the main screen with a complete description of actions required.

Specifications

	Trace (EDI)	LT (EDI)	Bio (EDI)
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 conductivity at 25 °C	≤0.1 µS/cm	≤0.1 µS/cm	≤0.1 µS/cm
TOC	< 10 ppb	<3 ppb*	<3 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 to storage tank		3/5/10/15 L/h**	
Volumetric dispense		0.01 L to 100 L***	
Adjustable dispense rate From 2 L/min to drop-by-drop)
Dimensions (WxDxH), cm		50(33)x45x63	

^{*} In appropriate operating conditions <2 ppb, otherwise normally <3 ppb.
** Depends on the configuration.
***Depends on the tank volume.

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 μ m/cm constantly or every 12 months	Not applicable for EDI configuration
10033	Polishing QC w/ quick connectors	Grade 1 water conductivity is $> 0.1 \mu\text{m/cm}$ constantly or every 12 months	Depends on water consumption amount
10037	Polishing QH w/ quick connectors	Grade 1 water conductivity is $> 0.1 \mu\text{m/cm}$ constantly or every 12 months	Depends on water consumption amount
10017	Sterilization UV bulb	On average - every 2 years	"Bio" configuration
10018	Photooxidation UV bulb	On average - every 2 years	"LT" and "Bio" configuration
10013	Replacement 0.22 µm dispense filter	Every 6–12 months	"Trace" and "LT" configuration
10120	Replacement ultrafilter	Every 3–6 months	"Bio" configuration

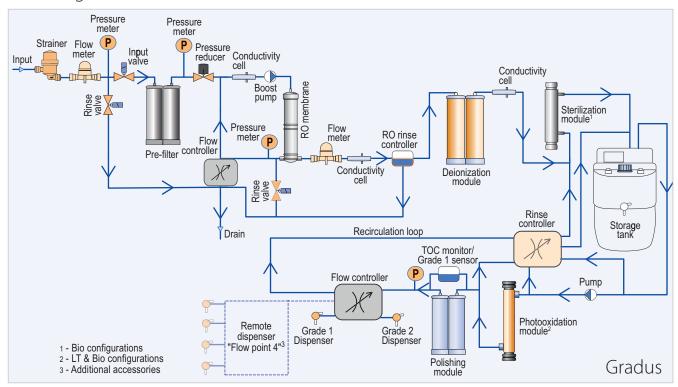
Adjustable dispense flow regulation

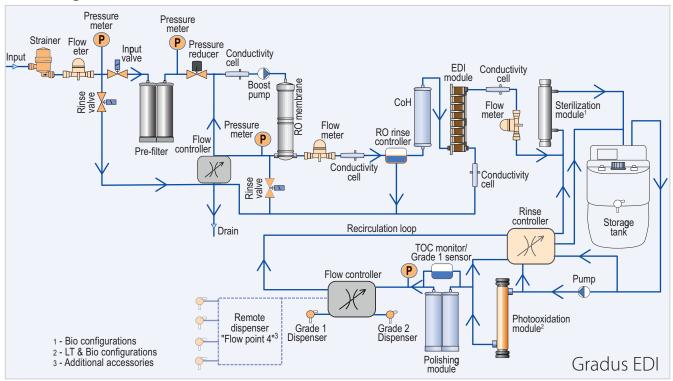
- Water delivered up to 2 liters per minute keeps interruptions to minimum.
- Volumetric dispense allows fast reissue of set volumes.
- Volumetric control is available from 0.01 to 100 L.
- Drop-by-drop function.

Convenient

- Installation process gives quick access to laboratory water.
- Simple and trouble-free replacement of consumables.
- Built-in calibration of conductivity sensors.

Flow diagram







B300 & B310

The B300 is a new integrated Grade 2/Grade 1 laboratory water system, replacing the customer-approved previous B30 model.

The B310 is an extended version of the B300, which is designed to produce all types of Grade 2/ Grade 1 and RO laboratory water.

The B310 special feature is the ability to produce large volumes of water at low cost for general laboratory applications – glassware washers, autoclaves, rinsing of laboratory materials, etc. A pressurized tank can be added for RO water storage.

Both systems have completely new electronics and software, providing several additional features:

- · large colour touch screen,
- · data logging capability,
- · warning and alarm messages,
- a wide range of flow control options,
- the ability to connect multiple remote dispensers,
- Ethernet and USB interfaces,
- · dispense report preparation,
- improved accuracy of conductivity and TOC measurements.

The systems also include RO water recirculation, which reduces tap water consumption.

Ordering information

Model	Part number
B300 Trace	CB-3301
B300 HPLC	CB-3303
B300 Bio	CB-3305
B310 HPLC	CB-3503
B310 Bio	CB-3505

Consumables

Part number	Description	Replacement criteria	Comments
10319	Pre-filter set	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	Depends on water consumption amount
10033	Polishing QC w/ quick connectors	Grade 1 water conductivity is $> 0.1 \mu m/cm$ constantly or every 12 months	Depends on water consumption amount
10037	Polishing QH w/ quick connectors	Grade 1 water conductivity is $> 0.1 \mu m/cm$ constantly or every 12 months	Depends on water consumption amount
10017	Sterilization UV bulb	On average – every 2 years	"Bio" configuration
10018	Photooxidation UV bulb	On average – every 2 years	"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

Specifications B300

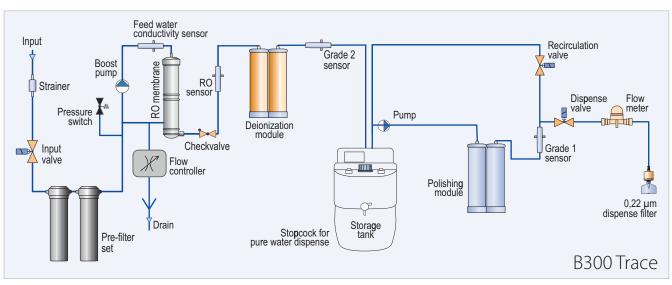
	Trace	HPLC	Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/ cm	0.055 μS/ cm	0.055 μS/ cm
Grade 2 water conductivity at 25 °C	<0.1 µS/cm	<0.1 μS/cm	<0.1 µS/cm
TOC	< 10 ppb	<5 ppb*	<5 ppb*
RNase	-	-	< 0.01 ng/mL
DNase	-	-	< 4 pg/µL
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 to storage tank		10 L/h	
Volumetric dispense		0.01 L to 100 L**	
Dispense rate, ultrapure water	1.5 - 2 L/min	1.5 - 2 L/min	1.5 - 2 L/min
Dimensions (WxDxH), cm	32x56x58	32x56x58	32x56x58
System weight, kg	27	28	29
Operation weight, kg	30	31	32

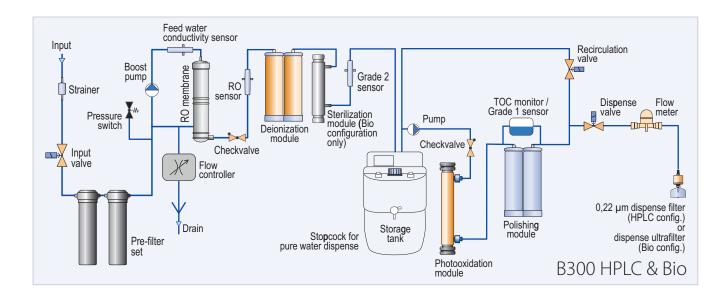
^{*} In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.
** Depends on the tank volume.

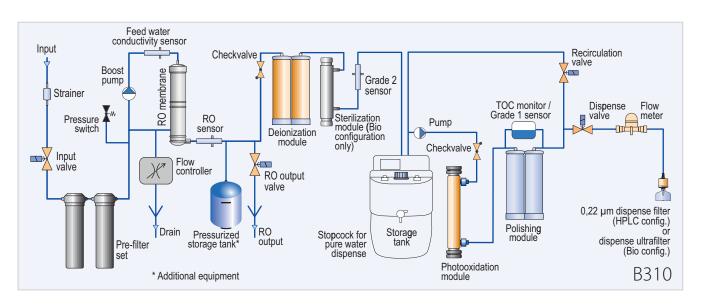
Specifications B310

	HPLC	Bio
Grade 1 water resistivity at 25 °C	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
Grade 2 water conductivity at 25 °C	<0.1 µS/cm	<0.1 µS/cm
TDS rejection rate	≥97%	≥97%
TOC	<5 ppb*	<5 ppb*
RNase	-	< 0.01 ng/mL
DNase	-	< 4 pg/μL
Bacteria	<0.01 CFU/mL	<0.01 CFU/mL
Endotoxins	<0.15 EU/mL	< 0.001 EU/mL
Particles >0.22 μm	<1/ per mL	<0.05/ per mL
Nominal flow to storage tank	10	L/h
Volumetric dispense	0.01 L to) 100 L**
Dispense rate, ultrapure water	1.5 - 2 L/min	1.5 - 2 L/min
Dimensions (WxDxH), cm	32x56x58	32x56x58
System weight, kg	28	29
Operation weight, kg	31	32

^{*} In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.
** Depends on the tank volume.







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 $> 0.5 \mu m/cm$ constantly or every 12 months	
10031	Polishing Q w/ quick connectors	Grade 1 water conductivity is $> 0.1 \ \mu m/cm$ 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 M Ω x cm	$>$ 10 M Ω x cm	$>10 \mathrm{M}\Omega\mathrm{x}\mathrm{cm}$
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

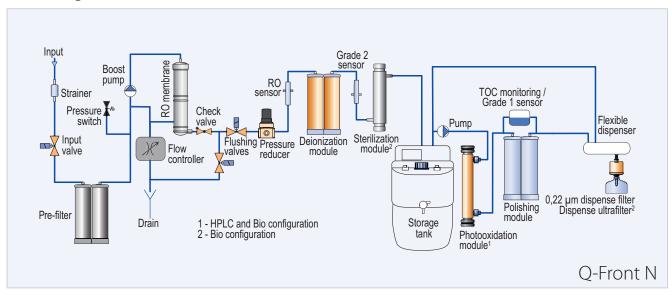
^{*} In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.

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 	chromatographymass spectrometrymicrobiologymolecular 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		



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	ultrapure water (Grade 1)RO water	ultrapure water (Grade 1)RO water	ultrapure water (Grade 1)RO water
Application	 atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	chromatographymass spectrometrymicrobiologymolecular 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		

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 $> 0.1 \ \mu m/cm$ 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

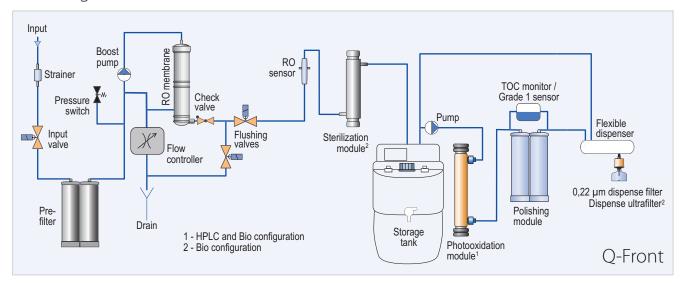
Model	Part number
Q-Front 5 Trace	QF-3101
Q-Front 10 Trace	QF-3201
Q-Front 5 HPLC	QF-3103
Q-Front 10 HPLC	QF-3203
Q-Front 5 Bio	QF-3105
Q-Front 10 Bio	QF-3205

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.



Q-FRONT EDI

Adrona's product Q-Front EDI is a tap water system for general laboratory applications and inorganic analytical methods.

Q-Front EDI systems are intended for use in laboratories with high daily pure and ultrapure water consumption.

Q-Front EDI systems include the flexible dispenser.



Description

	Q-Front EDI Trace	Q-Front EDI HPLC	Q-Front EDI Bio
Q-Front EDI 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 	chromatographymass spectrometrymicrobiologymolecular 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 attache	d
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 $> 0.1 \mu m/cm$ 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

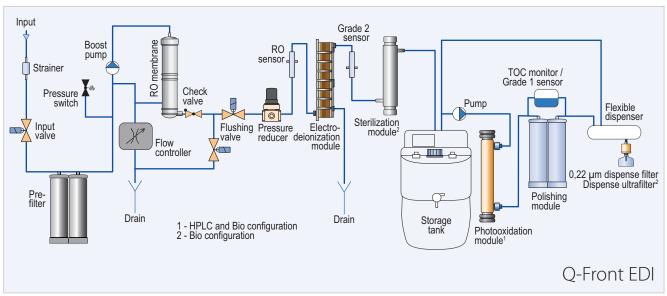
Model	Part number
Q-Front 5 EDI Trace	QF-4101
Q-Front 10 EDI Trace	QF-4201
Q-Front 5 EDI HPLC	QF-4103
Q-Front 10 EDI HPLC	QF-4203
Q-Front 5 EDI Bio	QF-4105
Q-Front 10 EDI Bio	QF-4205

Specifications

Q-Front EDI system configuration

	QTIC	Q Hone Edi 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
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/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	27	28	29
Operation weight, kg	31	32	33

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



INTEGRITY+

The Integrity+ series water purification systems produce ultrapure water for laboratory needs directly from tap water.

The system is most suitable for relatively low ultrapure water consumption up to 15-20 L per day. The Integrity+series systems have a built-in 5 litre tank to keep the system compact.



Description

	Integrity+ Trace	Integrity+ HPLC	Integrity+ Bio
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)	ultrapure water (Grade 1)
Application	 atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	chromatographymass spectrometrymicrobiologymolecular biology	highly sensitive biology applications
Display		colour graphic LCD display	
Conductivity sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispensing	•	•	•
Storage tank	integrated tank 5L		
Installation	installable either on a laboratory bench or on a wall		

Specifications

Ordering information

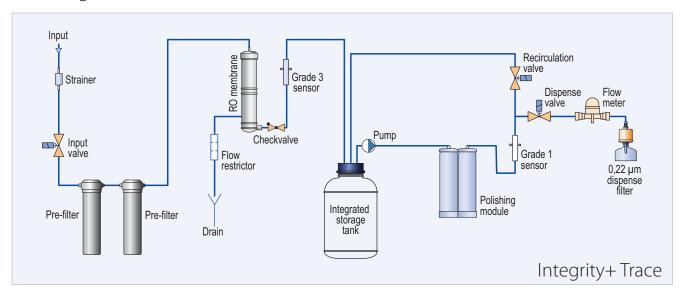
Model	Part number
Integrity+ Trace	CB-2101
Integrity+ HPLC	CB-2103
Integrity+ Bio	CB-2105

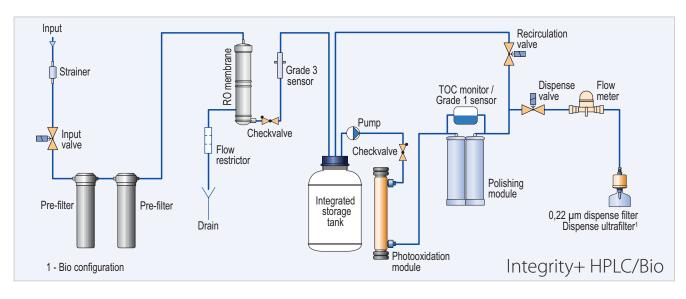
	Integrity+ system configuration		iguration
	Trace	HPLC	Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water conductivity at 25 °C	0.1 μS/cm	0.1 μS/cm	0.1 μS/cm
Total Organic Carbon (TOC) level	<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/mL	<1/mL	<0.05/mL
Dimensions (WxDxH), cm	32x56x62	32x56x62	32x56x62
System weight, kg	24	25	26
Operation weight, kg	32	33	34
Data interface	RS 232	RS 232	RS 232
Feed water pressure	2 – 6 bar	2 – 6 bar	2 – 6 bar

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

Consumables

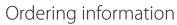
Part number	Description	Replacement criteria	Comments
10319	Pre-filter set	If the filters are clogged or every 6 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is > 0.1 µm/cm constantly or every 12 months	
10018	UV photooxidation bulb	2 years on average	Only for "Bio" and "HPLC"
10013	0.22 μm dispense filter	Every 6–12 months	Only for "Trace" and "HPLC"
10120	Replacement ultrafilter	Every 3–6 months	Only for "Bio"





E30

E30 water purification system produce ultrapure and pure water for laboratory needs. It is designed for maximum convenience of use and to have maximum features. Is it a system with high price/performance ratio.



Model	Part number
E30 Trace	CE30-1001
E30 HPLC	CE30-1101
E30 Bio	CE30-1201



Description

	E30 Trace	E30 HPLC	E30 Bio
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 	chromatographymass spectrometrymicrobiologymolecular biology	highly sensitive biology applications
Display	colour LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispensing	•	•	•
Connection to Flow point	•	•	•
Storage tank	required but not included		
Installation	installable on a laboratory bench		

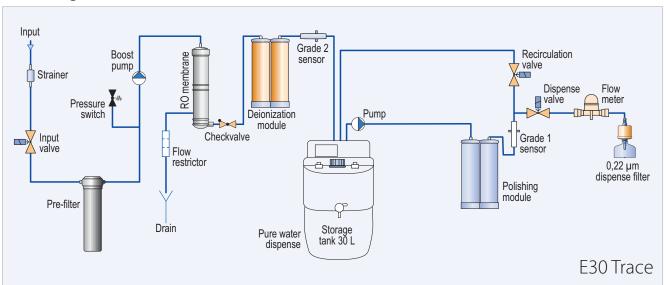
Specifications

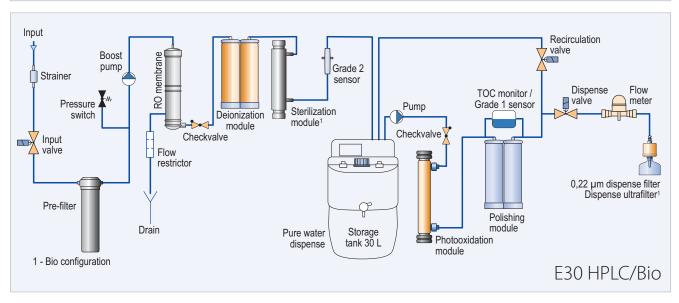
	E30 Trace	E30 HPLC	E30 Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water conductivity at 25 °C	<0.1 µS/cm	<0.1 μS/cm	<0.1 μS/cm
Total Organic Carbon (TOC) level	<10 ppb	<5 ppb*	<5 ppb*
RNase	-	-	<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/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- 6 bar	0.4- 6 bar	0.4- 6 bar
Feed water conductivity	< 1500 μS/cm	< 1500 μS/cm	< 1500 μS/cm

 $^{^{*}\,}$ In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.

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 μ m/cm constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \ \mu m/cm$ 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
10013	Replacement 0.22 µm dispense microfilter	Every 6–12 months	"Trace" and "HPLC" systems
10120	Replacement ultrafilter	Every 3–6 months	"Bio" systems only





CRYSTAL EX

Adrona Crystal EX produces ultrapure and pure water. This multipurpose water purification system is highly appreciated due to the very affordable price.

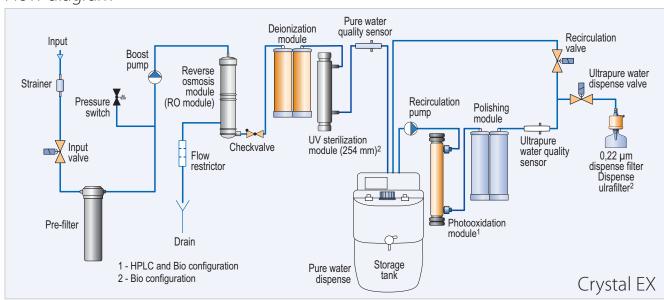
Ordering information

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 μm/cm constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is > 0.1 μm/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
10013	Replacement 0.22 µm dispense microfilter	Every 6–12 months	"Trace" and "HPLC" systems
10120	Replacement ultrafilter	Every 3–6 months	"Bio" systems only



Description EX series

	Trace	HPLC	Bio
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 	chromatographymass spectrometrymicrobiologymolecular 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 M Ω x cm	$>$ 10 M Ω 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.

CRYSTAL EX DOUBLE FLOW

The Crystal EX Double Flow system produces pure (Grade 2) water.

The Crystal Double Flow water purification system is designed specifically for laboratories and applications with

high water consumption (30 I/day and more). The system includes a large capacity (8 L) deionization module, which reduces the operating costs of the system.



Ordering information

Model	Part number	
Crystal EX Double Flow	EX20-1002HC	

Specifications

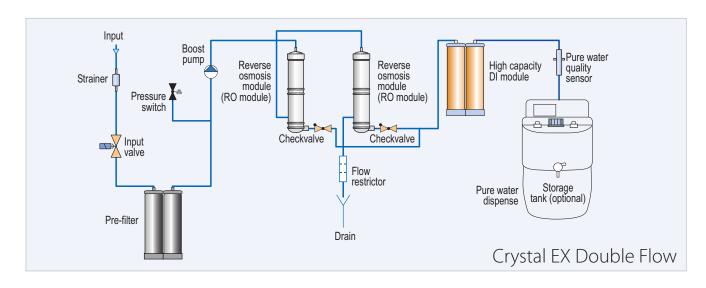
Grade 2 water resistivity at 25 °C	$>$ 10 M Ω x cm
Grade 2 water conductivity at 25 °C	<0.1 µS/cm
Particles >0.22 μm	<1 per mL
Nominal flow, pure water (to storage tank)	20 L/h
Dimensions (WxDxH), cm	40x50x55
System weight, kg	26
Operation weight, kg	39
Feed water pressure	0.4 – 4 bar
Feed water conductivity	<1500 µS/cm

Description

Water type	Grade 2 water	
Application	flame spectrophotometryinorganic analytical methodselectrochemistrybuffer preparation	
Display	Monochrome LCD	
Conductivity sensor	•	
TOC Monitor	-	
Volumetric dispensing	-	
Pressurized storage tank	Required, not included	
Installation	Bench	

Consumables

Part number	Description	Replacement criteria	Comments
10410	Pre-filter module	If the filters are clogged or every 6 months	
10113	High-capacity deionization module	Grade 2 water conductivity is >0.5 μm/cm constantly or every 12 months	
10017	Sterilization UV bulb	As required (on average every 2 years)	Only systems with 10103 option





COMPACT STERIFEED

Compact Sterifeed is an updated water purification system specially designed to produce feed water for autoclaves and laboratory washing machines.

It features robust construction, reliable performance and space-saving design.

The pressurized water storage tank ensures a consistent supply of water to the autoclave. Many autoclaves require a pressurized purified water supply. Some autoclaves have priming pumps for purified water inlet, but if the water supply is not pressurized, an air gap

can block the water flow. If a blockage occurs, the autoclave cannot operate until the air is removed from the system. The pressurized water storage tank in the Sterifeed system prevents any air gap from forming and ensures smooth operation of the autoclave.

Ordering information

Model	Part number	
Compact Sterifeed	CT-1002	

Consumables

Part number	Description	Replacement criteria
10416	Pre-filter set	If the filters are clogged or every 6 months

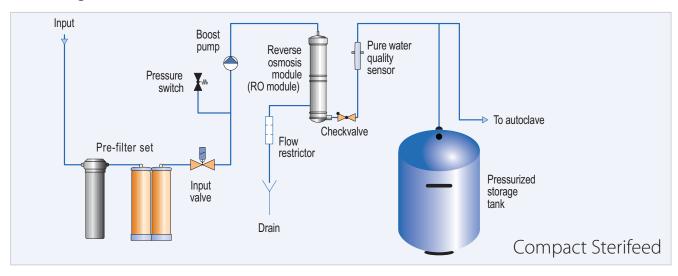
Description

Water type	RO water	
Application	Purified water for autoclaves	
Display	Monochrome LCD	
Conductivity sensor	•	
TOC Monitor	-	
Volumetric dispensing	-	
Pressurized storage tank	Required, not included	
Installation	Wall / bench	

Specifications

TDS rejection rate	≥97%
Particles >0.22 μm	<1 per mL
Nominal flow, pure water (to storage tank)	10 L/h
Dimensions (WxDxH), cm	23x30x41
System weight, kg	12
Operation weight, kg	15
Pressurized storage tank*	60 L
Feed water pressure	0.4 – 4 bar
Feed water conductivity	<1500 μS/cm

^{*} Required but not included. Other capacities available.



ONSITE+

Onsite+ is a polishing water purification system, for which the feed water must be pre-treated by reverse osmosis or distillation

System contains an embedded tank that has to be filled with pre-treated water before operation.

Onsite+ series systems are recommended for laboratories with average daily consumption of water within 5–10 litres.

Ordering information

Model	Part number
Onsite+ Trace	CB-1901
Onsite+ HPLC	CB-1903
Onsite+ Bio	CB-1905



Description Onsite+ series

	Trace	HPLC	Bio
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)	ultrapure water (Grade 1)
Application	 atomic absorption spectrometry plasma optical emission spectrometry other inorganic trace analysis 	spectrometry • plasma optical emission spectrometry • other inorganic trace • chromatography • mass spectrometry • microbiology • molecular biology • chromatography • mass spectrometry • microbiology • molecular biology	
Display	colour graphic LCD display		
Conductivity sensor	•		•
TOC Monitor	-		•
Volumetric dispensing	• • •		•
Connection to Flow point			
Storage tank	integrated tank 5 L for pre-treated water		
Installation	installable either on a laboratory bench or on a wall		

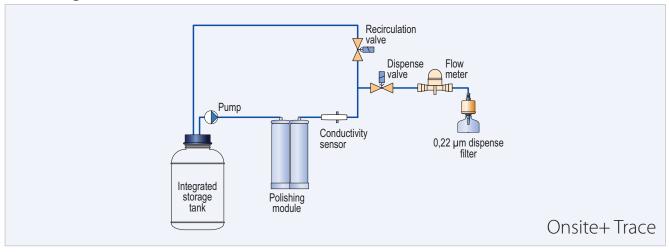
Consumables

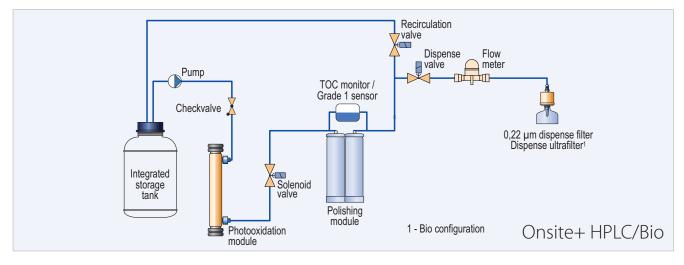
Part number	Description	Replacement criteria	Comments
10030	Polishing module "Polishing+"	Grade 1 water conductivity is >0.1 μm/cm constantly or every 12 months	
10018	UV photooxidation bulb	2 years on average	Only for "Bio" and "HPLC"
10013	Point-of-use microfilter	Every 6–12 months	Only for "Trace" and "HPLC"
10120	Point-of-use ultrafilter	Every 3–6 months	Only for "Bio"

Specifications

	Trace	HPLC	Bio
Ultrapure water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Ultrapure water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 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/mL	<1/mL	<0.05/mL
Dimensions (WxDxH), cm	30x44x64	30x44x64	30x44x64
System weight, kg	16	17	17
Operation weight, kg	21	22	22
Feed water conductivity	< 100 μS/cm	< 100 μS/cm	< 100 μS/cm

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





CONNECT

Connect is a polishing water purification system, for which the feed water must be pre-treated by reverse osmosis or distillation.

The unit can be connected to a centralized, pressurized pre-treatment water system or to an external atmospheric tank where pre-treated water is stored.

Tax pers

Ordering information

Model	Part number
Connect Trace	CB-1701
Connect HPLC	CB-1703
Connect Bio	CB-1705

Description Connect series

	Trace	HPLC	Bio
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)	ultrapure water (Grade 1)
Application	 atomic absorption spectrometry plasma optical emission chromatography mass spectrometry misrabiology 		highly sensitive biology applications
Display	colour graphic LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	•	•
Volumetric dispensing	•	•	•
Connection to Flow point	•	•	•
Storage tank		Not included	
Installation	installable eithe	r on a laboratory bench or or	n a wall

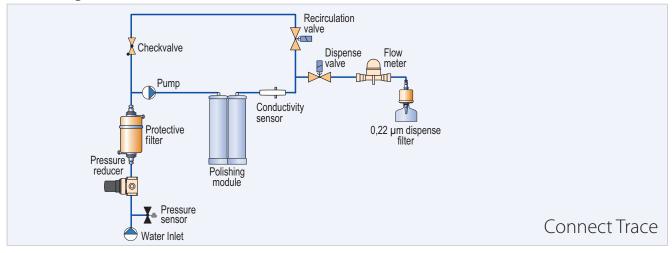
Consumables

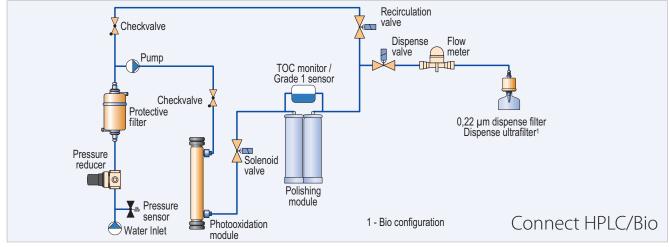
Part number	Description	Replacement criteria	CommLents
10030	Polishing module "Polishing+"	Grade 1 water conductivity is >0.1 μm/cm constantly or every 12 months	
10018	UV photooxidation bulb	2 years on average	Only for "Bio" and "HPLC"
10013	Point-of-use microfilter	Every 6–12 months	Only for "Trace" and "HPLC"
10120	Point-of-use ultrafilter	Every 3–6 months	Only for "Bio"

Specifications

	Trace	HPLC	Bio
Ultrapure water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Ultrapure water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 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/mL	<1/mL	<0.05/mL
Dimensions (WxDxH), cm	30x44x64	30x44x64	30x44x64
System weight, kg	16	17	17
Operation weight, kg	19	20	20
Feed water conductivity	< 100 μS/cm	< 100 μS/cm	< 100 μS/cm

 $^{^{\}ast}$ In appropriate operating conditions <2 ppb, otherwise normally <5 ppb.





CONNECT LT

The new version of market approved laboratory water polishing system – Connect received totally new electronics and software. As a result there are number of the new features – full colour touch screen, USB and Ethernet connections and available history of dispense reports.





Ordering information

Model	Part number
Connect LT	CB-1801
Connect LT Bio	CB-1803

Large touchscreen

- Simplified and detailed information in multiple languages
- Alerts and alarms are visible on the main screen with complete information on actions required
- Monitoring the operation of the system

Convenient

- Easy menu navigation in multiple languages
- Easy access to change consumables

Easy to use

- Water delivered up to 2 liters a minute keeps interruptions to a minimum
- Volumetric dispensing allows fast reissue of volumes
- Volumetric control is available from 0.01 to 100 L $\,$

Cost effective

- · All consumables included
- Large volume DI cartridge
- Space-saving design for a more efficient laboratory setup and daily operation

Specifications

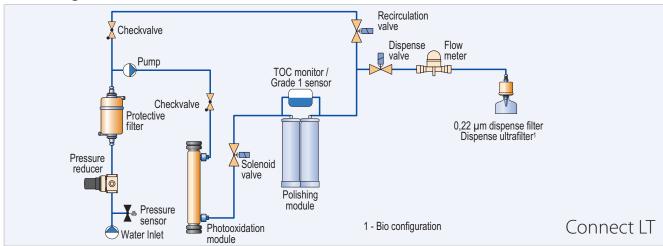
	LT	LT Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/ cm	0.055 μS/ cm
TOC	<5 ppb*	<5 ppb*
RNase	-	<0.01 ng/mL
DNase	-	<4 pg/μL
Bacteria	<0.01 CFU/mL	<0.01 CFU/mL
Endotoxins	<0.15 EU/mL	< 0.001 EU/mL
Particles >0.22 μm	<1/mL	<0.05/ mL
Dispense rate, ultrapure water	1.5 - 2 L/min	1.5 - 2 L/min
Dimensions (WxDxH), cm	29x44x65	29x44x65
System weight, kg	17	17
Operation weight, kg	20	20
Feed water conductivity	< 100 μS/cm	< 100 μS/cm

Description

	LT	LT Bio	
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)	
Application	chromatographymass spectrometrymicrobiologymolecular biology	highly sensitive biology applications	
Display	7" colour touchscreen		
Conductivity sensor	•	•	
TOC Monitor	•	•	
Volumetric dispensing		•	
Connection to Flow point	•	•	
Installation installable either on a laborat bench or on a wall			

Consumables

Part number	Description	Replacement criteria	Comments
10031	Polishing Q w/ quick connectors	Grade 1 water conductivity is >0.1 µm/cm constantly or every 12 months	Depends on water consumption amount
10033	Polishing QC w/ quick connectors	Grade 1 water conductivity is > 0.1 μm/cm constantly or every 12 months	Depends on water consumption amount
10037	Polishing QH w/ quick connectors	Grade 1 water conductivity is > 0.1 μm/cm constantly or every 12 months	Depends on water consumption amount
10018	Photooxidation UV bulb	On average – every 2 years	"LT" and "LT Bio" configuration
10013	Replacement 0.22 µm dispense filter	Every 6–12 months	"LT" configuration
10120	Replacement ultrafilter	Every 3–6 months	"LT Bio" configuration



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

RADIX

When larger quantities of Grade 2 or RO water are required, RADIX systems serve as a multi-purpose solution for a wide range of applications. Systems are available in RO or EDI configurations and, depending on the model, produce up to 250 L of RO water or 150 L of Grade 2 water per hour.

RADIX systems are designed as robust and reliable high-capacity purified water sources that require minimal maintenance while delivering exceptional output. The EDI configuration includes an electrodeionization module which needs no replacement and thus the long-term running costs are kept as low as possible.



- Central laboratory water distribution system which can supply purified water to the entire facility with a number of point-of-use access points and additional Grade 1 polishers installed according to the specific requirements.
- Feed water production to biochemical analyzers in hospitals, laboratories, healthcare centers (RADIX EDI – Grade 2 systems). Depending on water consumption, RADIX systems can simultaneously supply more than one analyzer. A typical setup includes the RADIX system, an atmospheric storage tank (equipped with an automatic UV sanitization module and CO2 trap) and a water distribution module
- Production facilities of different types of manufacturing industries.
- Supply of large capacity humidifiers, steam generators etc.



Ordering information

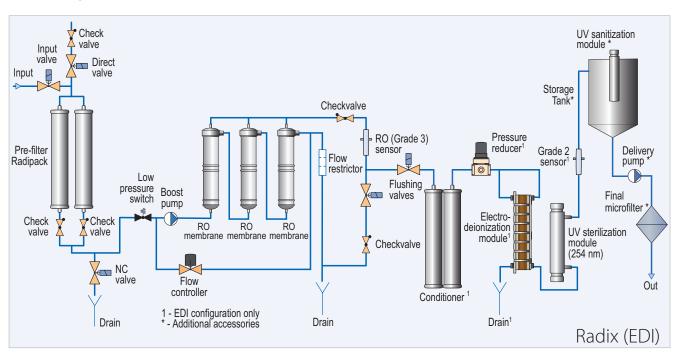
Model	Part number
Radix 60 RO	RA-1001
Radix 100 RO	RA-1003
Radix 250 RO	RA-1005
Radix 31 EDI	RA-2102
Radix 61 EDI	RA-2104
Radix 91 EDI	RA-2106
Radix 151 EDI	RA-2108

Specifications

	60 RO	100 RO	250 RO	31 EDI	61 EDI	91 EDI	151 EDI
Capacity, L/h	60	100	250	30	60	90	150
TDS rejection rate	≥98.5%	≥98.5%	≥ 98.5%	-	-	-	-
Output water conductivity at 25 °C, μ S/cm	-	-	-	≤0.5	≤0.5	≤0.5	≤0.5
Dimensions (WxDxH), cm	33x72x77	33x72x77	33x94x77	33x78x77	33x78x77	33x78x77	33x78x77
System weight, kg	42	56	88	50	56	68	68
Operation weight, kg	52	63	97	55	63	74	74
Display	colour graphic LCD display						
Storage tank			requi	red, not incl	uded		

Consumables

Part number	Description	Replacement criteria
10420	Pre-filter RADIPACK	If the filters are clogged or every 6 months
10820	Conditioner	If the filters are clogged or every 6 months (EDI configuration)
10011	Replacement sterilization UV bulb	As required (on average every 2 years)



ACCESSORIES

For increased convenience of use of the Adrona water purification systems, choose from the variety of accessories to meet your specific needs.

Storage Tanks

Adrona water purification systems can be equipped with water storage tanks of various capacity. Depending on the consumption of purified water, user can choose the tank starting from tank with capacity of 10 litres up to 300 litres. All the storage tanks are equipped with level switch.

Water storage tank "Pro"



Specially designed for significant reduction of microbiological contamination possibilities

Features:

- 30 L geometric volume
- 25 L usable volume
- Opaque housing walls for protection against light
- · Conical bottom for complete draining
- Ergonomical design
- Equipped with stopcock
- Recirculation system for maintaining the water quality
- Automatic UV sanitization (UV lamp) module (option)
- Multi-position level switch, that enables precise control of remaining water
- Fast pure water dispense pump (option)
- Dimensions (WxDxH): 39x44x60 cm
- Weight: 6.5 kg

Water dispensing unit "Flow Point"



The water dispensing unit provides a more convenient use of Adrona systems.

- Adjustable in all dimensions
- Manual and/or volumetric dispensing with teaching mode
- Colour graphic LCD display

Flow Point 4 features:

- Flow rate control
- Drop-by-drop feature
- Volumetric dispense from 10 ml to 10 liters
- Compatible with Gradus, B300/B310, Connect LT

Water storage tank "Comfort" 60 L



Water storage tanks

	Water storage tank "Pro" w/ base, tap and
11015	multipoint sensor, 30 L
	Dimensions: 39*44*60 cm

Water storage tank "Pro" w/ base, tap and level switch, 30 L Dimensions: 39*44*60 cm
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	Water storage tank "Comfort" w/ base, tap
10007	and level switch, 60 L
	Dimensions: 42*42*85 cm

10027	Storage tank "Comfort" w/ base, tap and level switch, 100 L
	Dimensions: 45*45*112 cm

	Storage tank "Comfort" w/ base and
10026	level switch, 200 L
	Dimensions: 55*55*134 cm

10025	Storage tank "Comfort" w/ base and level switch, 300 L Dimensions: 66*66*144 cm
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	Atmospheric water storage tank "Basic"
13001	w/o base, w/ immersible pump, 10 L
13001	Dimensions: 22*17*36 cm
	Recommended for Compact systems

	Atmospheric water storage took "Desig"
	Atmospheric water storage tank "Basic"
13002	w/o base, w/ immersible pump, 20 L
13002	Dimensions: 28*23*42 cm
	Recommended for Compact systems

	Atmospheric water storage tank "Comfort"
13006	w/o base, w/ immersible pump, 14 L
	Recommended for Compact systems

Pressurized water storage tanks

10109	Pressurized water storage tank, 8 L Dimensions: 20*20*30 cm
10110	Pressurized water storage tank, 12 L Dimensions: 24*24*35 cm
10111	Pressurized water storage tank, 18 L Dimensions: 28*28*35 cm



Accessories for storage tanks

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10316	Automatic sanitization module for tank, <20 L
10315	Automatic sanitization module for tank "Pro"
410205	Automatic sanitization module for tank, 60-100 L
410208	Automatic sanitization module for tank, 200-300 L
410175	UV bulb for automatic sanitization module
13005	Water distribution module, 4 L/min (for water tanks with base)
13008	Water distribution module (for water tanks w/o base)
410110	Water distribution pump 3 m ³ /h
12001	Air filter for storage tank
12002	0.22 µm bacteria air filter for storage tank
13007	Tank CO ₂ trap with microfilter

Water dispensers

10327	Water dispensing unit "Flow Point 3" Designed for Grade 1 water dispense Compatible with Q-Front, Q-Front N, Onsite+, Integrity+ and Connect systems
10427	Water dispensing unit "Flow Point 4" Designed for Grade 1 water dispense Compatible with Gradus, B300, B310 and Connect LT systems



Universal remote dispenser with 3 m supply hose w/ fixed stand, w/o controller

Designed for Grade 2 or RO water dispense For distribution module part no. 13005 or part no. 13008





Pure water faucet for sink For Compact pressurized tank configuration

Optional water system sterilization module

10103	UV sterilization module 24V The UV sterilization module is built into the unit
10017	Replacement sterilization UV bulb for UV sterilization module 24V
10104	UV LED sterilization module The UV sterilization module is built into the unit

Water system sanitization cartridge

10510	Sanitization cartridge, Q-Front*
10511	Sanitization cartridge w/ quick connectors, Q-Front N & Gradus*
10520	Sanitization cartridge, Radix*

 $[\]mbox{\ensuremath{\,^*}}$ Shipped separately due to shipment of dangerous cargo

Feed water inlet

External pre-filter set (carbonpp/ PP 1 μm) with manometer
10171 External pre-filter set (polyphosphate/ carbonpp/1 μm) with manometer
10174 External pre-filter set (for Radix systems)
410222 Filter set for 10170 (Carbon/PP, PP 1μm)
410223 Filter set for 10171 (Polyphosphate, Carbon/PP, PP 1μm)
410293 Filter set for 10174

External input pressure reducer

AquaStop, water leakage protection system

10175

410226

Documentation

410143	DQ/IQ/OQ/PQ documentation
410144	DQ/IQ/OQ/PQ documentation For systems with touchscreen interface

Laboratory water system service accessories

2CA300	Conductometer WTW cond 3310 0.0001-30 µS/cm
301962	Ultrapure water conductivity cell, $K = 0.01$ 0.0001-30 μ S/cm
410232	Tube set and adaptor kit for conductivity cell
91339	Chlorine test strips
91220	Hardness test strips
HI98308	Conductivity tester PWT 0.00-99.9 μS/cm
HI98304	Conductivity tester DIST4 0.00-20 mS/cm





