
PRODUCT
CATALOGUE
2025

Laboratory water purification systems

adrona

WATER PURIFICATION SYSTEMS

Adrona water purification systems deliver ultrapure (Grade 1/Type I), pure (Grade 2/Type II), and reverse osmosis (RO) water to meet a wide range of laboratory needs. The water quality fully complies with leading international standards for laboratory water - ISO 3696:1987, ASTM D1193-06, and CLRW as defined by CLSI.

Tap water systems	Water type	Page	Polishing systems	Water type	Page
Gradus XT-300 NEW	Ultrapure, pure	6	Onsite +	Ultrapure	32
Gradus	Ultrapure, pure	8	Connect	Ultrapure	34
B300 & B310	Ultrapure, pure, RO ¹	11	Connect LT	Ultrapure	36
Q-Front N	Ultrapure, pure	14	Central laboratory systems		
Q-Front EDI	Ultrapure, pure	16	Radix	Pure, RO	38
Q-Front	Ultrapure, RO	18	Accessories NEW		40
Integrity +	Ultrapure	20			
E30	Ultrapure, pure	22			
Crystal EX	Ultrapure, pure, RO ¹	24			
Compact NEW	Ultrapure, pure	26			
Compact RO & Pure	Pure, RO	28			
Crystal EX Double Flow	Pure	30			
Compact Sterifeed	Pure	31			

¹ Depending on the model, water purification systems can produce ultrapure and pure water or RO and pure water.

ADRONA Laboratory ultrapure water system features

	Compact RO/Pure	Crystal EX Compact	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	RO ¹ / 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	-	-	✓	✓	✓	✓	✓	✓
Volumetric dispense	-	-	✓	✓	✓	✓	✓	✓
Data Interface	-	-	RS232	RS232	RS232	Ethernet USB	RS232	Ethernet USB
Dispense reports	-	-	-	-	-	✓	-	✓
Data storage	-	-	-	-	-	✓	-	✓
GLP	-	-	-	-	-	✓	-	✓
Remote diagnostic	-	-	-	-	-	✓	-	✓

¹ Compact RO

² B310

OVERVIEW

Adrona offers a full range of laboratory water purification systems tailored to meet every application need - from reverse osmosis (RO) water for basic tasks such as glassware rinsing and autoclave feed, to pure water (Grade 2) for general laboratory use, and ultrapure water (Grade 1) for the most demanding, sensitive applications.

Backed by over two decades of expertise in laboratory water purification, Adrona systems are built using proven configurations, premium components, and high-quality materials to ensure reliable performance and long-term durability.

Designed for user-friendly operation, all systems are easy to install and come with a complete set of initial consumables. Cartridges and filters are fully user-replaceable, minimizing downtime and maintenance costs.

Several Adrona systems are available in both benchtop and wall-mounted configurations - helping laboratories save valuable workspace without compromising functionality.

Our latest models - Gradus, Connect LT, and B300 - are fully compliant with Good Laboratory Practice (GLP) standards, ensuring traceability, reliability, and regulatory readiness.

Volumetric Dispense

Depending on the model, Adrona water purification systems come equipped with a volumetric dispenser that allows precise control over the dispensing volume for each cycle. Users can easily set the desired volume either through the intuitive keypad or by using the convenient "teaching" mode. In teaching mode, simply perform an initial manual dispense using the "Dispense On/Off"

button, and the system will remember that volume - delivering the exact same amount with every subsequent dispense at the touch of a button.

Water Quality and Validation

An embedded recirculation loop ensures consistently stable, premium water quality while effectively eliminating Total Organic Carbon (TOC). The performance of deionization and polishing modules is continuously monitored by an intelligent algorithm that helps reduce operating costs by prompting module replacement only when their service life is nearly complete.

Water quality stability is further enhanced by a dual semiconductor-grade ion exchange cartridge system, which maintains excellent water purity even during cartridge replacement.

All Adrona water purification systems support water quality validation through an external conductometer with a flow cell - available directly from Adrona or locally sourced.

System compliance with specifications is guaranteed when properly installed and maintained, ensuring reliable, long-term performance.

Total Organic Carbon (TOC) Monitor

Organic contaminants may not affect water conductivity, so conductivity sensors cannot reliably monitor Total Organic Carbon (TOC) levels. To address this, selected Adrona water purification systems are equipped with a dedicated TOC monitoring module that continuously measures

TOC concentrations. The current TOC values are conveniently displayed on the system's screen, providing real-time water quality assurance.

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



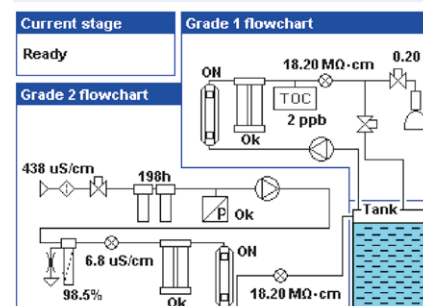
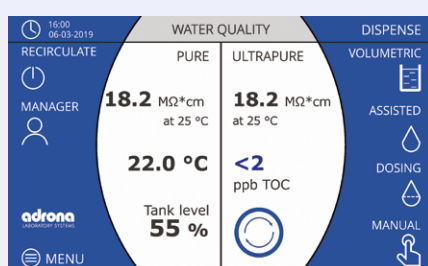
Monochrome LCD display



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

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.



Electrodeionization module

Adrona's Q-Front, RADIX, Gradus, and Compact systems are available in configurations featuring an integrated, continuously self-regenerating EDI module. This advanced technology helps minimize long-term operating costs, making it especially suitable for laboratories with high daily purified water demand

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 offers a comprehensive 2-year warranty along with continuous, dedicated customer support. Delivering high customer satisfaction is our top priority across all aspects of our business. Our dealers worldwide consistently commend Adrona for its dependable service and proactive assistance.

With all spare parts kept in stock, we guarantee rapid response times and swift resolution of any technical issues. Our support team is always ready to assist and, in urgent cases, can promptly dispatch necessary components. Repairs and maintenance are performed by either trained local

technicians or Adrona's own service engineers, ensuring expert care.

Furthermore, we guarantee the availability of all consumables throughout the lifetime of every installed water purification system, so you can rely on uninterrupted performance.

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
General laboratory applications	Glassware rinsing	•	•	•	•	•	•
	Laboratory washers	•	•	•	•	•	•
	Autoclaves	•	•	•	•	•	•
	Electrochemistry		•	•	•	•	•
	Wet chemistry		•	•	•	•	•
	Spectrophotometry		•	•	•	•	•
	Buffer and media preparation		•	•	•	•	•
	Reagent preparation		•	•	•	•	•
Inorganic analysis methods	Flame atomic absorption spectrophotometry		•	•	•	•	•
	Graphite automizer atomic absorption spectrophotometry				•	•	•
	Plasma mass-spectrometry (ICP-MS)				•	•	•
	Plasma spectrophotometry (ICP-OES)				•	•	•
	Ion chromatography				•	•	•
Organic analysis methodes	Liquid chromatography (HPLC/UHPLC)					•	•
	HPLC-MS					•	•
	Total organic carbon measurments					•	•
Molecular Biology	Flow cytometry						•
	Cell and tissue culture						•
	Molecular biology						•

GRADUS XT-300

The innovative Gradus XT-300 laboratory water purification system is entirely managed through remote dispensers equipped with a touch screen. Dispenser Flow Point GR provides pure Grade 2 water, while the other Flow Point XR delivers ultrapure Grade 1 water. Additionally, up to four more dispensers can be incorporated into the system.

Superior quality of ultrapure and pure water is achieved directly from tap water source.

The Gradus XT-300 offers flexibility in placement options – it can be mounted on the wall or situated under the bench, optimizing space in your work area. Alternatively, if space permits, it can also be placed directly on a laboratory bench.

The connection between the main unit and the remote dispenser extends to 5 meters (optimally 3 m).

Available in two main configurations - electrodeionization (EDI) and deionization.



Detailed procedures

- Clear and comprehensive information available in various languages.
- Alerts and notifications appear on the main screen, providing a thorough description of the necessary actions.
- Continuous monitoring of system operations.
- Dispense report preparation.

Adjustable dispense flow regulation

- Delivers water at a rate of up to 2 liters per minute, minimizing interruptions.
- Volumetric dispensing facilitates quick reissuance of specified volumes.
- Offers volumetric control ranging from 10 ml to 100 liters.
- Features a drop-by-drop dispensing function.

Intuitive touchscreen display

- 8-inch color touchscreen.
- Equipped with USB and Ethernet connectivity.
- Data can be stored on a USB-C drive.
- Touchscreen is designed for glove compatibility.

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	-	-	<1 pg/mL
DNase	-	-	<5 pg/mL
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
Nominal flow to storage tank	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 (system),WxDxH, cm	33x45x63		
Dimensions (dispenser),WxDxH, cm	Base: 20x26x5 cm; Width: 26-40 cm; Height: 55-78 cm; Tube: 80 cm		

* In appropriate operating conditions <2 ppb, otherwise normally <3 ppb.

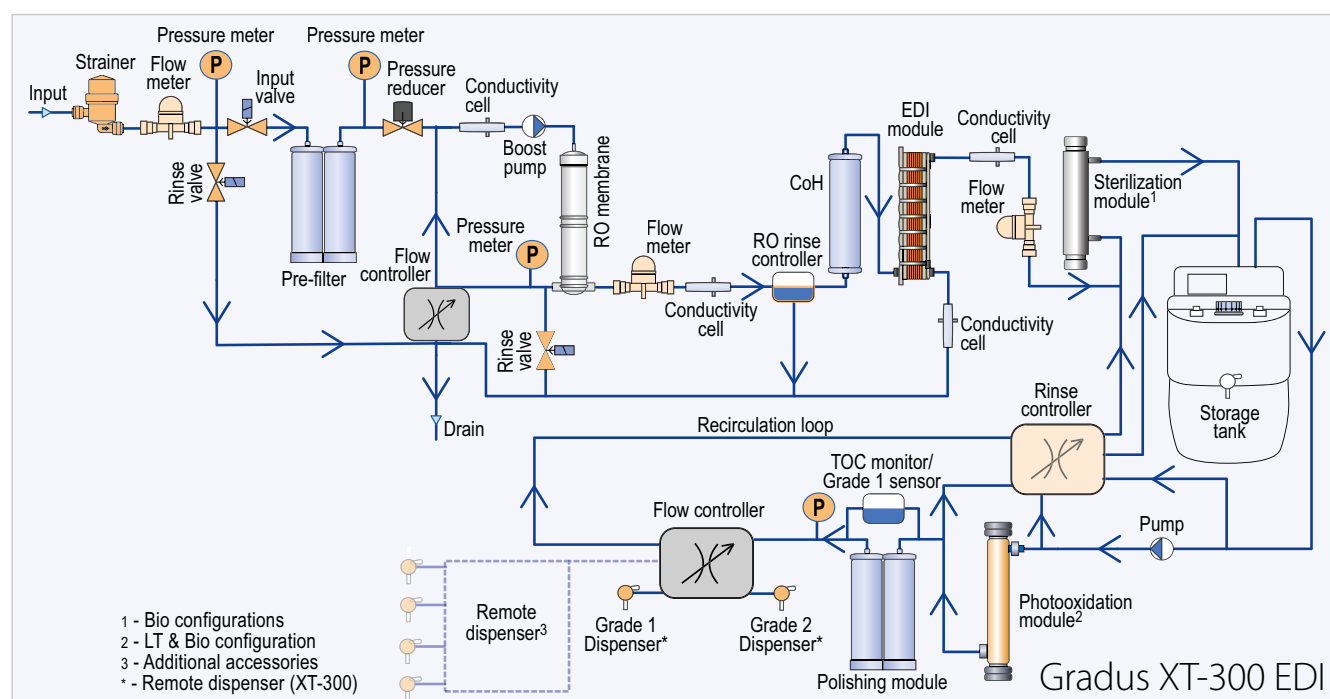
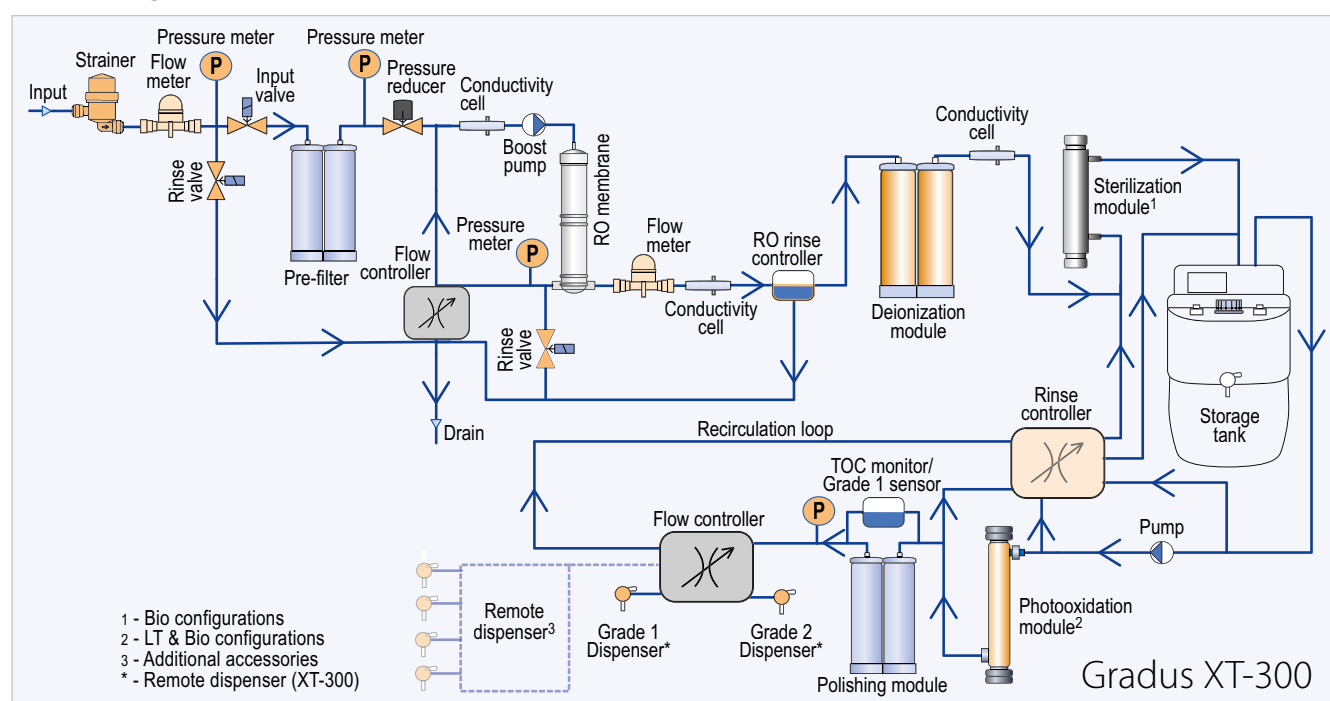
** Depends on the configuration.

***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 $> 0.5 \mu\text{m/cm}$ constantly or every 12 months	Not applicable for EDI configuration
10033	Polishing Q 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 12 months	“Bio” configuration
10018	Photooxidation UV bulb	On average – every 12 months	“LT” and “Bio” configuration
10013	Replacement $0.22 \mu\text{m}$ dispense filter	Every 6–12 months	“Trace” and “LT” configuration
10120	Replacement ultrafilter	Every 3–6 months	“Bio” configuration

Flow diagrams



GRADUS

Discover a fully integrated, intelligent water purification system that delivers exceptional pure and ultrapure water directly from a tap water source.

Pre-Clean filter

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

EDI module or DI module

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 molecule. Gradus systems feature an advanced reverse osmosis recovery loop, considerably reducing tap water consumption.

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.

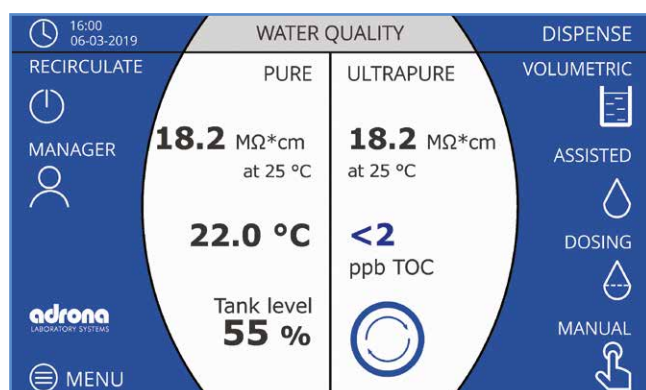
Within the tank, pure water quality is preserved by two built in features:

- 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 bactericidal 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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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 μm/cm constantly or every 12 months	Not applicable for EDI configuration
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
10017	Sterilization UV bulb	On average – every 12 months	“Bio” configuration
10018	Photooxidation UV bulb	On average – every 12 months	“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

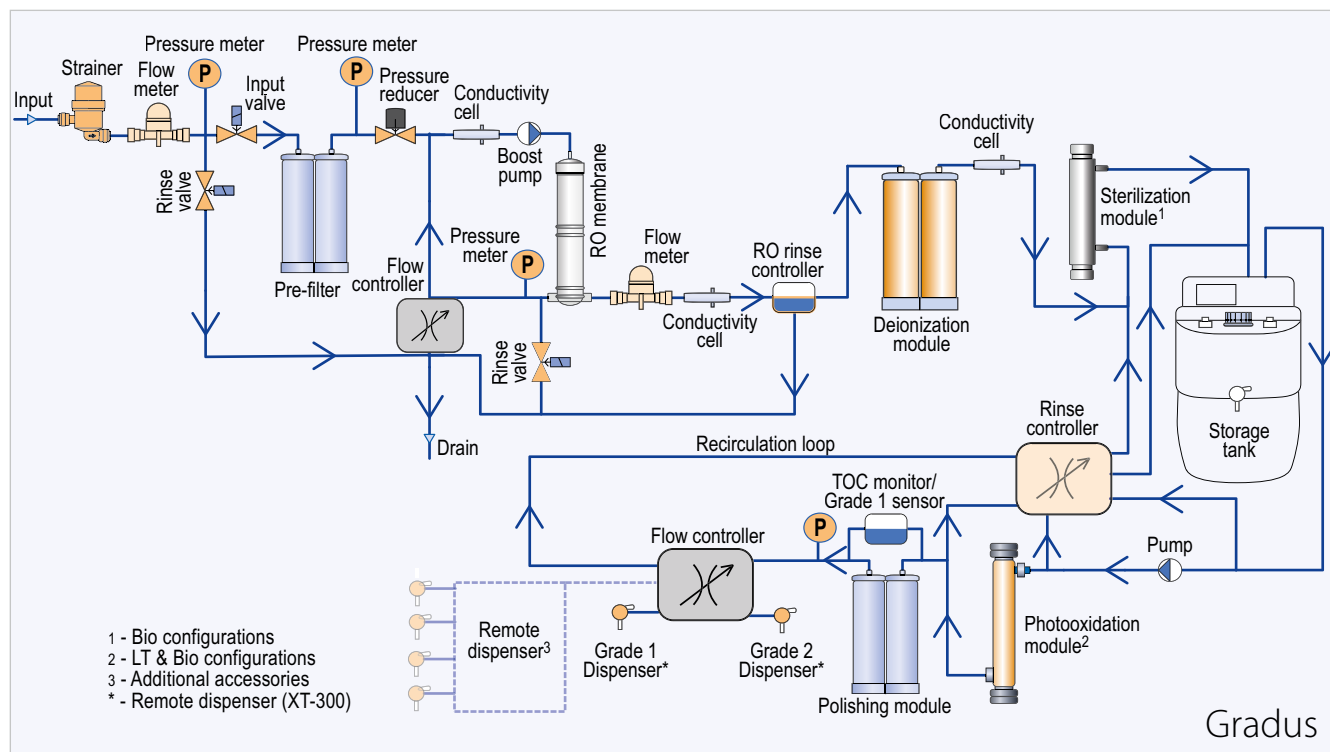
Adjustable dispense flow regulation

- 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.

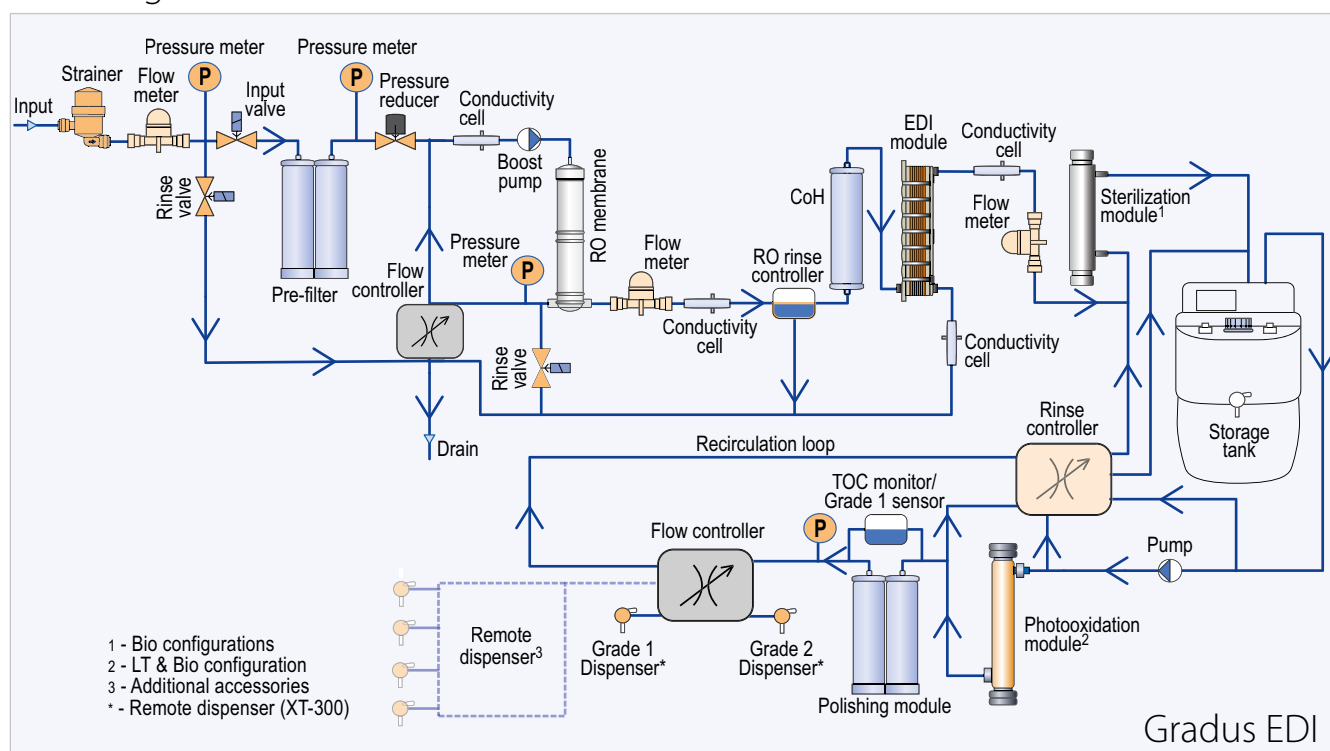
Convenient

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

Flow diagram



Flow diagram





B300 & B310

Both systems feature completely redesigned electronics and software, delivering a host of new capabilities to enhance user experience and system efficiency:

- Large, vibrant color touch screen
- Comprehensive data logging
- Clear warning and alarm notifications
- Flexible flow control options
- Support for multiple remote dispensers
- Ethernet and USB connectivity
- Detailed dispense report generation
- Enhanced accuracy for conductivity and TOC measurements
- Additionally, the integrated RO water recirculation system reduces tap water consumption, promoting sustainability and cost savings.

Building on the proven success of Adrona's B30 model, the B300 system incorporates the latest generation electronics and a user-friendly touch-screen interface for seamless operation. Designed for tap water feed, the B300 delivers ultrapure (Grade 1) water conveniently through the front dispense port, while simultaneously providing pure (Grade 2) water directly from the external tank or via the optional Remote Dispenser (see Accessories section).

The B310 model offers a unique advantage by producing not only Grade 1 and Grade 2 water but also cost-effective reverse osmosis (RO) water for general laboratory needs such as glassware washing, autoclaves, and rinsing of lab materials. Additionally, a pressurized tank can be added for convenient RO water storage.

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 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
10017	Sterilization UV bulb	On average – every 12 months	"Bio" configuration
10018	Photooxidation UV bulb	On average – every 12 months	"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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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.

** Upgradeable to 15 L/h. Please enquire.

*** Depends on the tank volume.

Specifications B310

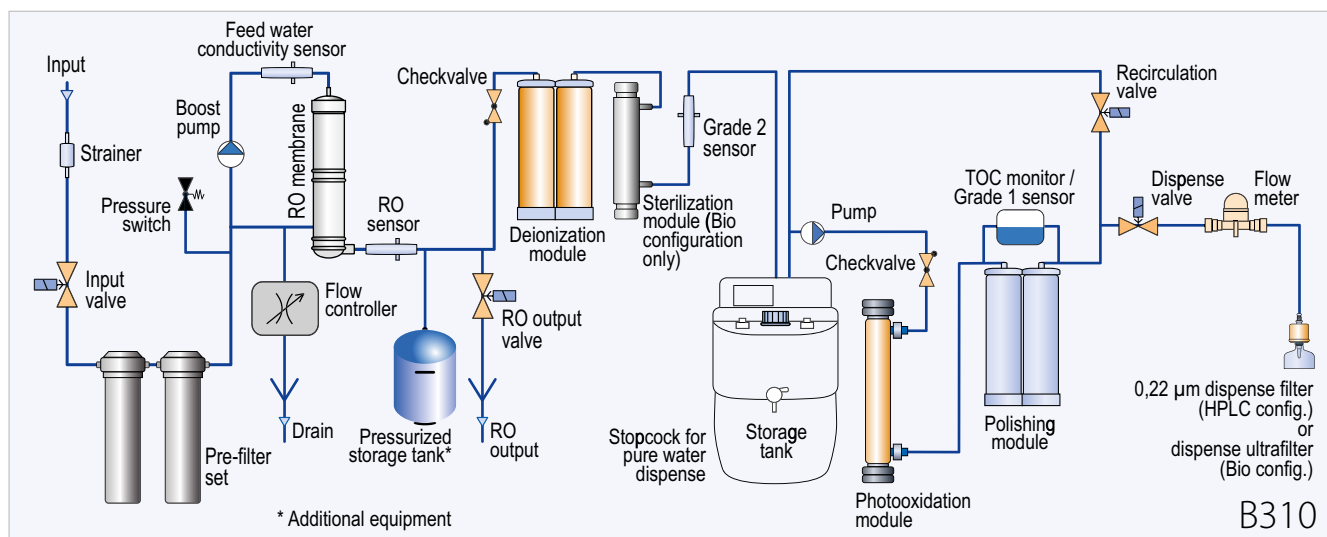
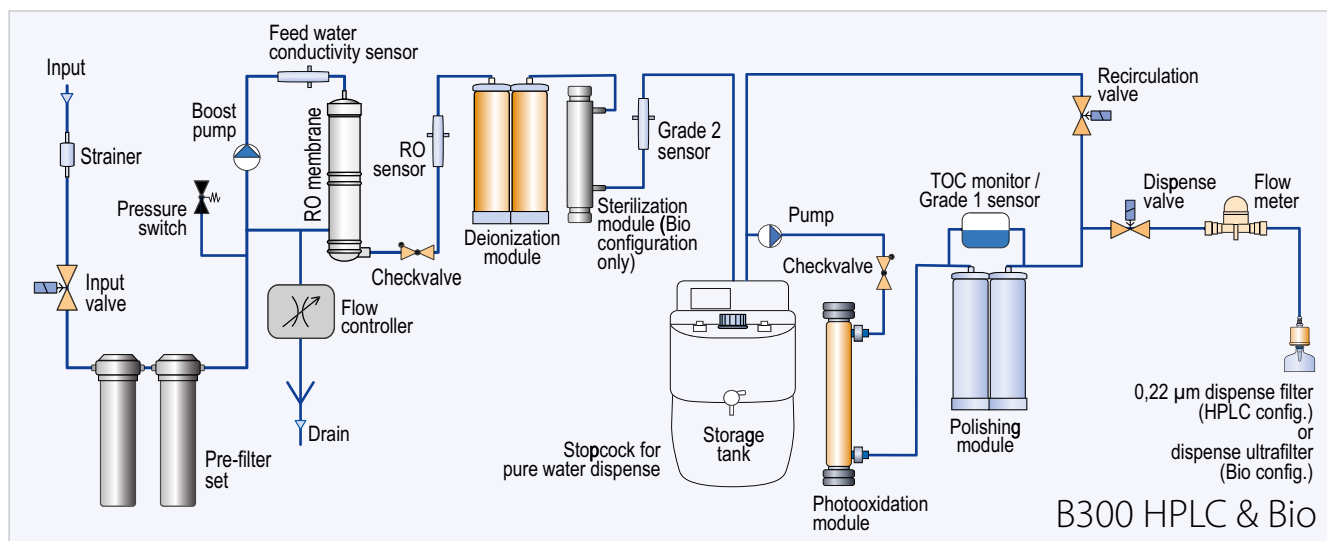
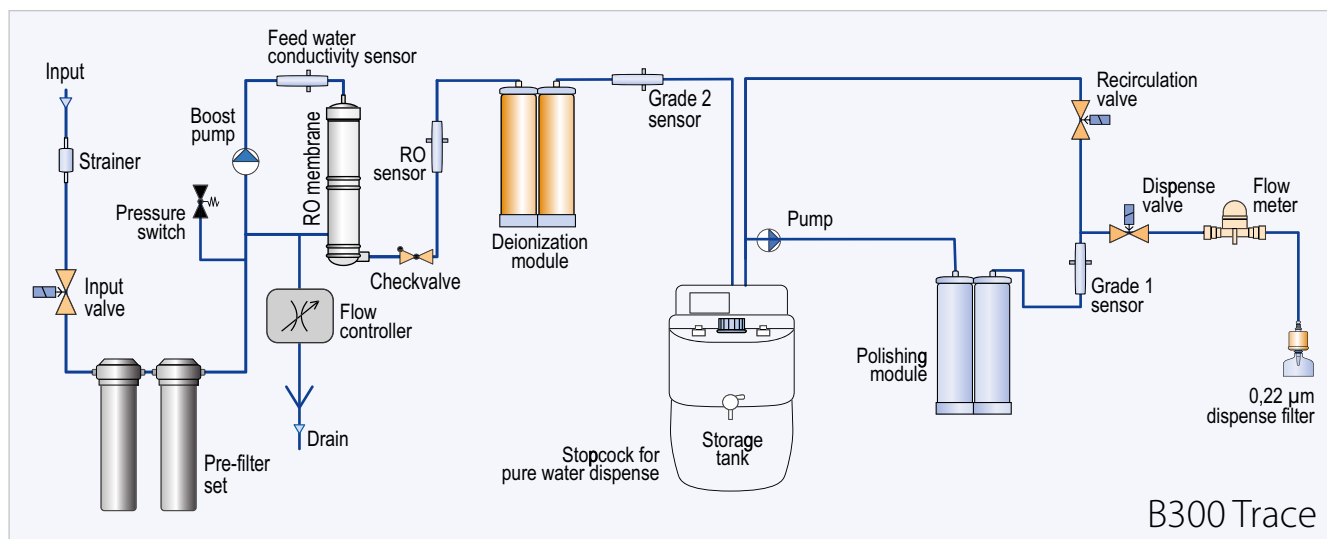
	HPLC	Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 µS/ cm	0.055 µS/ cm
Grade 2 water conductivity at 25 °C	<0.1 µS/cm	<0.1 µS/cm
TDS rejection rate	≥97%	≥97%
TOC	<5 ppb*	<5 ppb*
RNase	-	< 1 pg/mL
DNase	-	< 5 pg/mL
Bacteria	<0.01 CFU/mL	<0.01 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.

** Upgradeable to 15 L/h. Please enquire.

*** Depends on the tank volume.

Flow diagrams



Q-FRONT N

The Q-Front N offers an excellent balance of performance, user comfort, and cost efficiency, delivering both ultrapure (Grade 1) and pure (Grade 2) water directly from tap water.

Featuring a redesigned flexible side dispenser for ultrapure water, the Q-Front N ensures an ergonomic experience during everyday use, while its tool-free quick connectors enable effortless, hassle-free cartridge replacement – no assistance needed.

As with all Adrona water purification systems, the Q-Front N is available in Trace, HPLC, and Bio configurations to precisely match the unique requirements of any 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	On average – every 12 months	“Bio” configuration
10018	Photooxidation UV bulb	On average – every 12 months	“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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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.

** Upgradeable to 15 L/h. Please enquire.



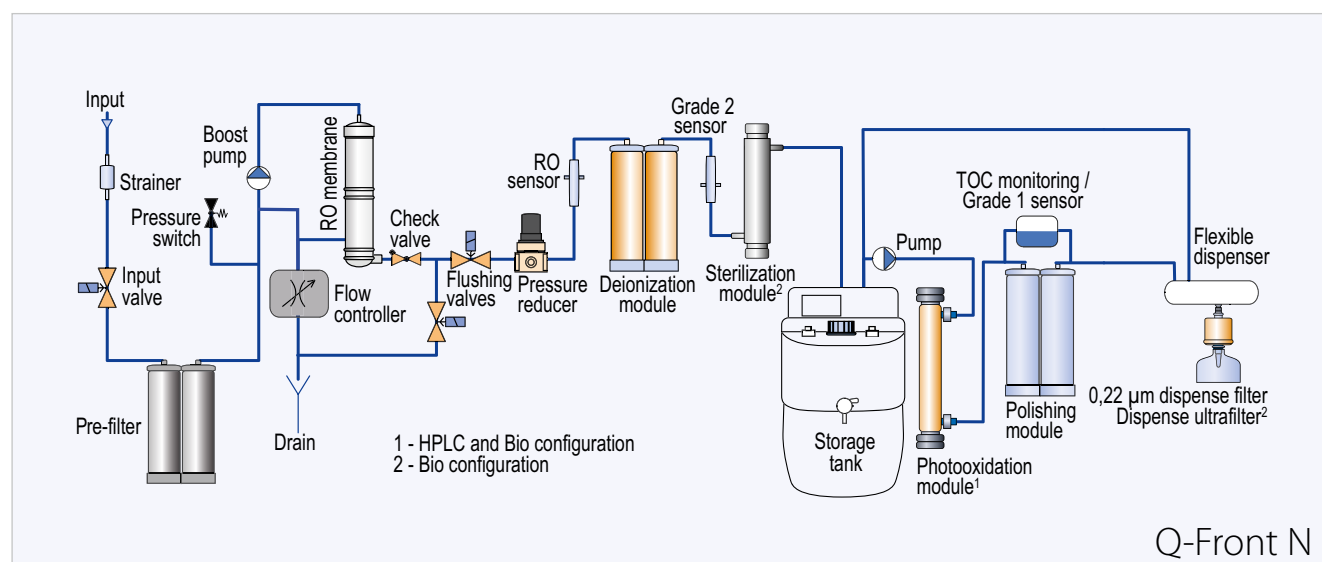
Ordering information

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



Q-FRONT EDI

Adrona's Q-Front EDI system features a continuously self-regenerating electrodeionization (EDI) module for uninterrupted performance, and - like the Q-Front N - delivers both ultrapure (Grade 1) and pure (Grade 2) water directly from tap water.

Thanks to its integrated high-efficiency EDI stage, the Q-Front EDI is ideal for applications with high daily water consumption. It offers excellent long-term cost efficiency, as the EDI module can operate continuously for many years without needing replacement.

As with all Q-Front series models, the system features a user-friendly design with quick, tool-free access to the cartridge compartment located behind the front cover, ensuring minimal downtime during maintenance.



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	- 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		

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	On average – every 12 months	"Bio" configuration
10018	Photooxidation UV bulb	On average – every 12 months	"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

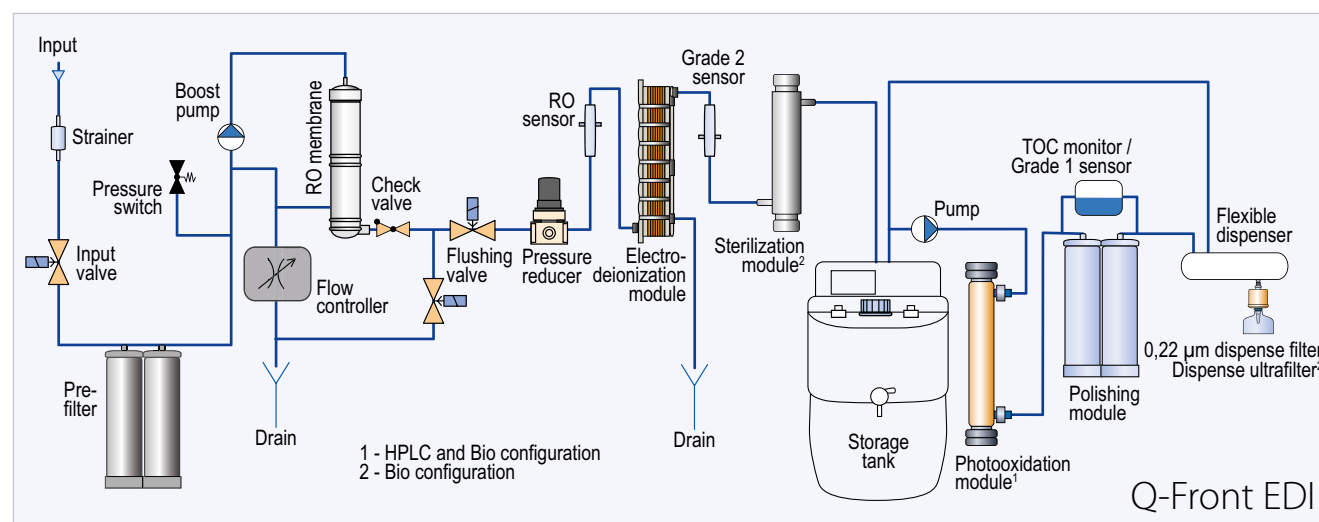
Specifications

	Q-Front EDI system configuration		
	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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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
Nominal flow, pure water (to storage tank)	5 / 10 L/h**	5 / 10 L/h**	5 / 10 L/h**
Dispense rate, ultrapure water	1.5–2 L/min	1.5–2 L/min	1.5–2 L/min
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.

** Depends on the configuration. Upgradeable to 15 L/h. Please enquire.

Flow diagram



Q-FRONT

The Q-Front 5/10 model delivers both ultrapure (Grade 1) and reverse osmosis (RO) water directly from tap water. Ultrapure water quality is achieved through a single ion exchange cartridge that integrates deionization and polishing steps, simplifying system maintenance.

RO permeate water is stored in an external tank and is ideal for general laboratory uses such as glassware rinsing or supplying autoclaves and washers. Meanwhile, ultrapure (Grade 1) water is easily accessed via the flexible side dispenser for highly sensitive applications. An automatic recirculation loop periodically circulates tank water to maintain consistently excellent quality.

The Q-Front 5/10 system is available in Trace, HPLC, and Bio configurations, ensuring a tailored solution to meet the specific requirements of each laboratory.



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	- 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		

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	On average – every 12 month	"Bio" configuration
10018	Photooxidation UV bulb	On average – every 12 month	"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

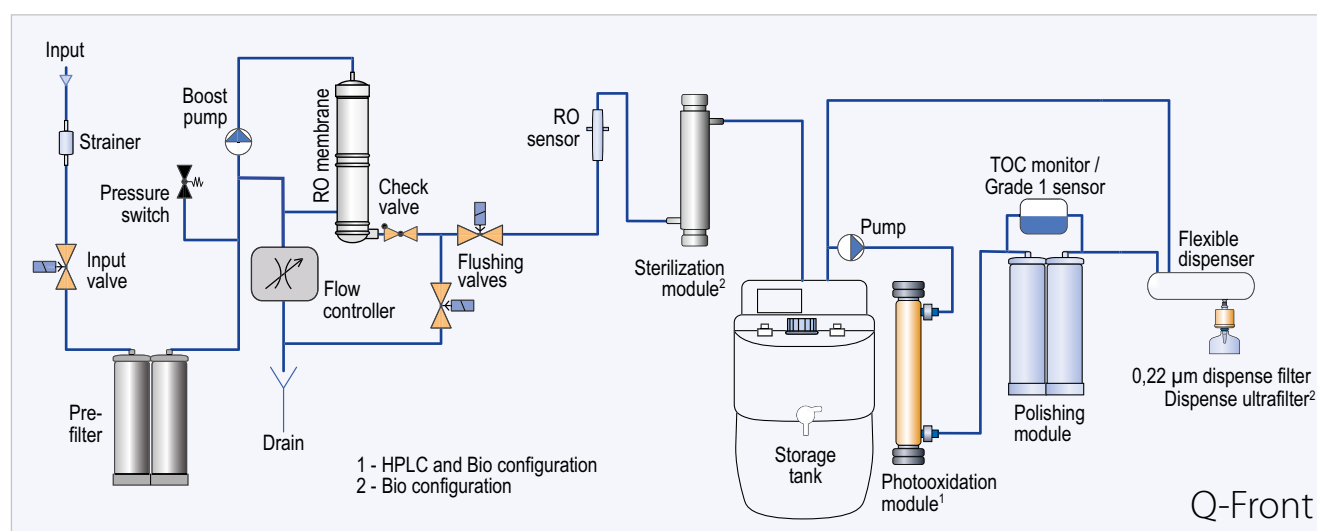
Specifications

	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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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
Nominal flow, pure water (to storage tank)	5 / 10 L/h**	5 / 10 L/h**	5 / 10 L/h**
Dispense rate, ultrapure water	1.5–2 L/min	1.5–2 L/min	1.5–2 L/min
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.

** Depends on the configuration. Upgradeable to 15 L/h. Please enquire.

Flow diagram



INTEGRITY+

Integrity+ is smart solution for laboratories requiring relatively low daily volumes of highly purified water for sensitive applications. The system produces ultrapure (Grade 1) water directly from tap water and includes a built-in 5-liter tank, saving the valuable bench space.

A clear, full-color display provides real-time information on key operating parameters such as water quality, system status, automatic error notifications, and an intuitive flow diagram. The volumetric dispensing feature enhances user convenience, while integrated TOC monitoring (available in HPLC and Bio configurations) ensures water quality meets the strict requirements of even the most sensitive applications.



Ultrapure water is dispensed directly from the front port, with the option to add the Flow Point remote dispenser (see Accessories section) for a second, flexible ultrapure water access point.

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	On average – every 12 months	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“

Specifications

	Integrity+ 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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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
Nominal flow, pure water (to storage tank)	4 L/h	4 L/h	4 L/h
Dispense rate, ultrapure water	<2 L/min	<2 L/min	<2 L/min
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.

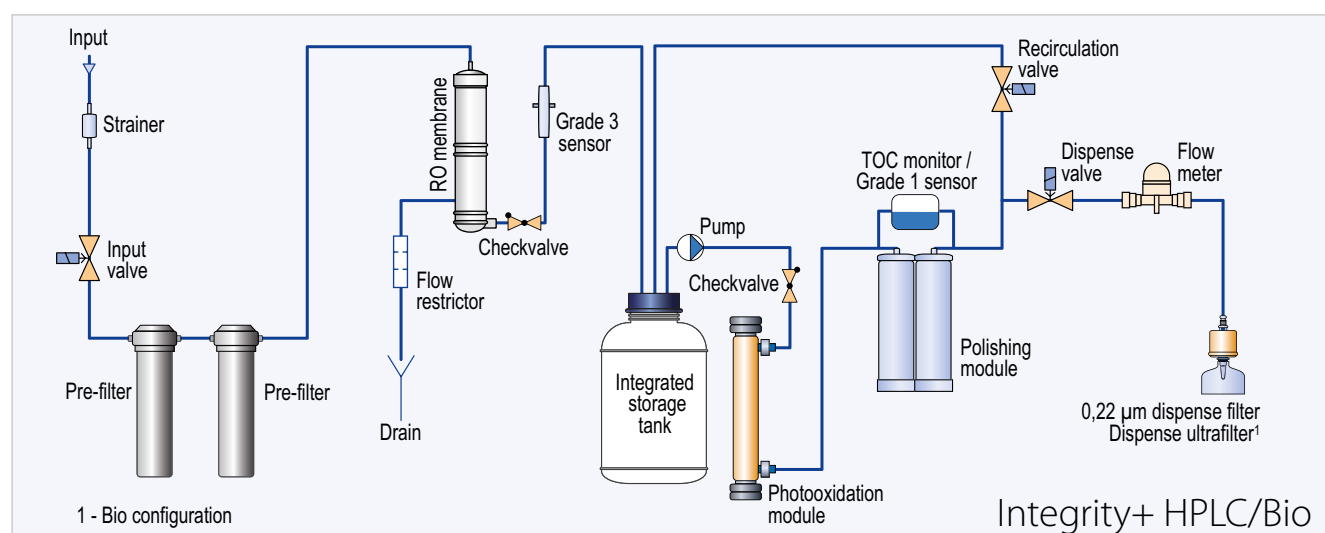
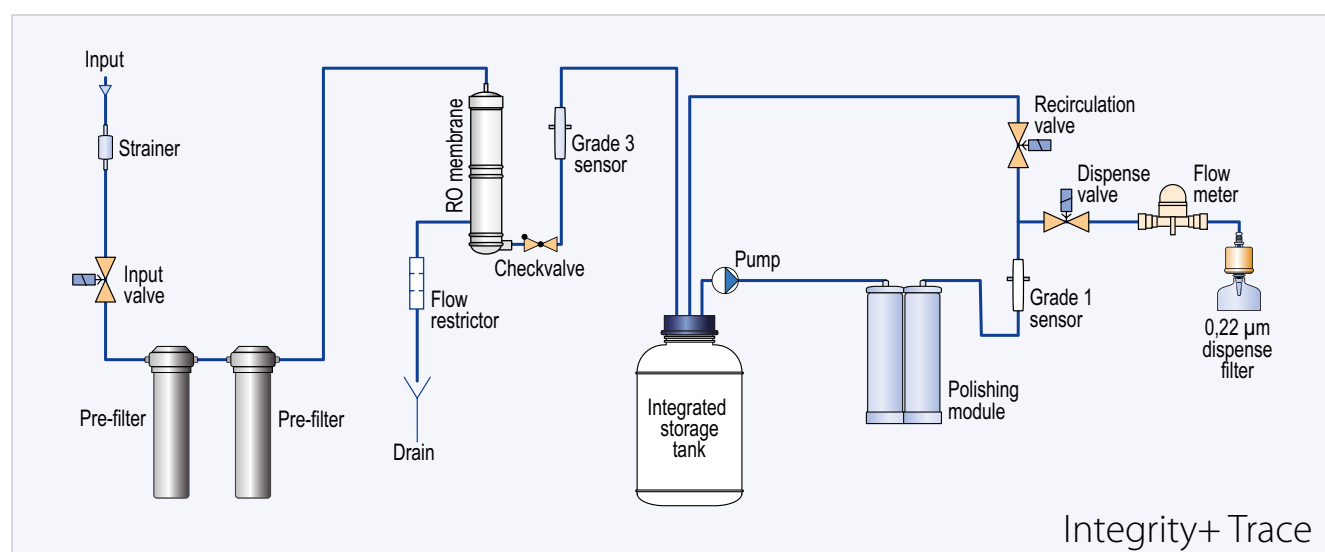
Ordering information

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

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	• chromatography • mass spectrometry • microbiology • molecular 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		

Flow diagrams



E30

The E30 model offers a well-balanced combination of simplicity, convenience, and reliable performance. It delivers both ultrapure (Grade 1) and pure (Grade 2) water directly from tap water, providing exceptional value for cost. The system setup includes an external tank for pure (Grade 2) water, with

automatic periodic recirculation to maintain long-term water quality stability. As part of the standard package, the E30 is equipped with a 30-liter tank, with larger tank capacities available (see Accessories section) to suit specific needs and daily usage patterns.



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	- chromatography - mass spectrometry - microbiology - molecular 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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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**
Dispense rate, ultrapure water	1.5-2 L/min	1.5-2 L/min	1.5-2 L/min
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.

** Upgradeable to 15 L/h. Please enquire.

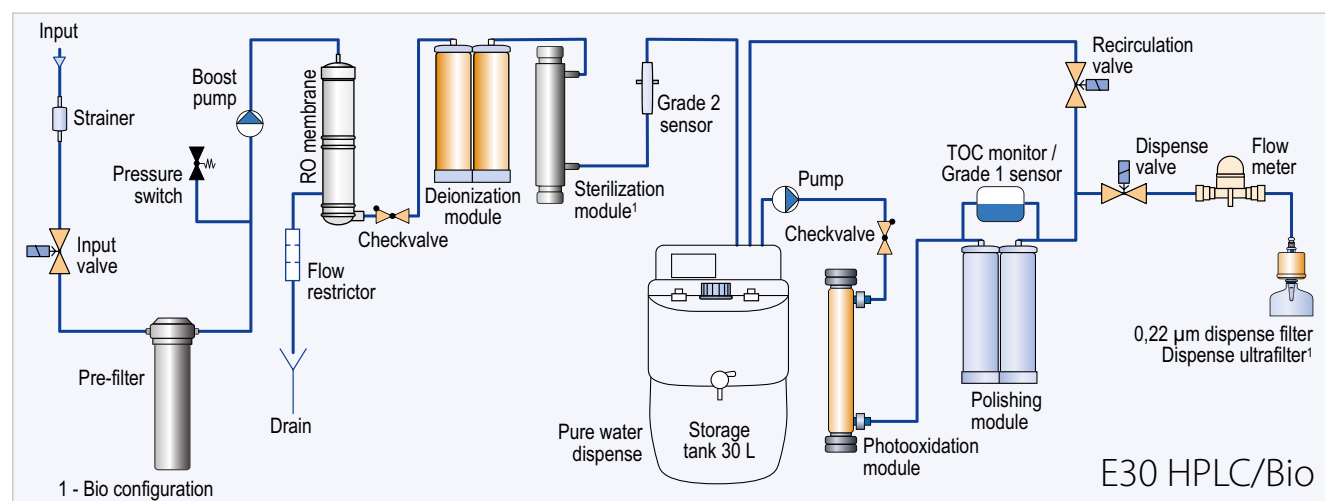
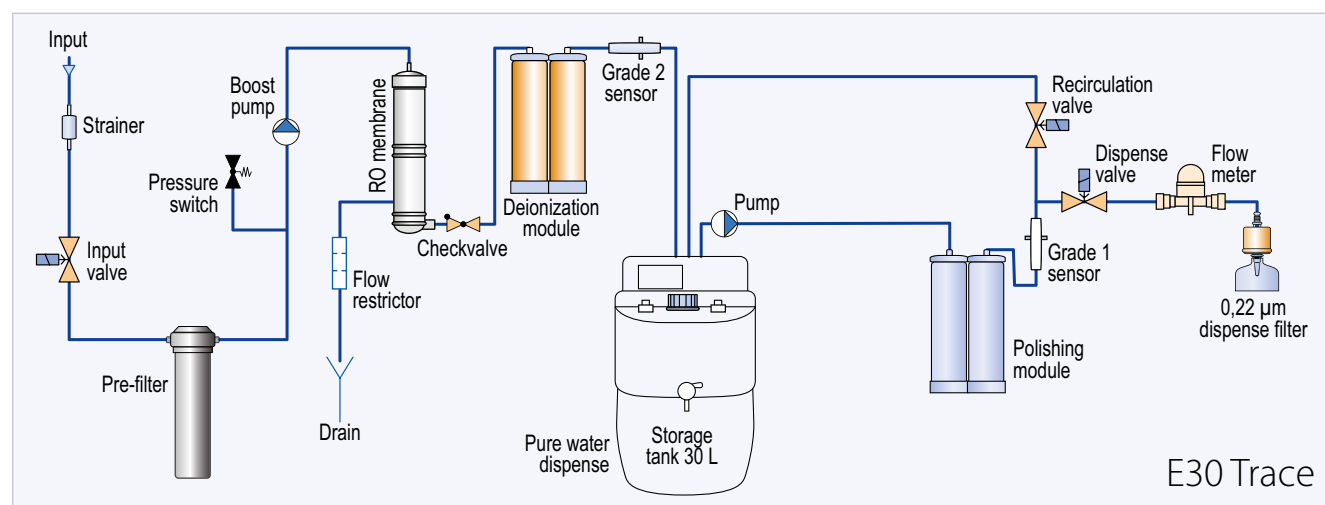
Ordering information

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

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 $> 0.5 \mu\text{m}/\text{cm}$ constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \mu\text{m}/\text{cm}$ constantly or every 12 months	
10017	Replacement sterilization UV bulb	On average – every 12 months	„Bio“ systems only
10018	Replacement photooxidation UV bulb	On average – every 12 months	„HPLC“ and „Bio“ systems only
10013	Replacement $0.22 \mu\text{m}$ dispense microfilter	Every 6–12 months	„Trace“ and „HPLC“ systems
10120	Replacement ultrafilter	Every 3–6 months	„Bio“ systems only

Flow diagrams



CRYSTAL EX

If you're looking for a straightforward and dependable solution to meet your daily purified water needs, Crystal EX is the answer. Designed to operate directly from tap water, this system provides a reliable and cost-effective source of both ultrapure (Grade 1) and pure (Grade 2) water.

Built for robustness and long-term stability, Crystal EX ensures trouble-free operation over time. As with all Adrona ultrapure water systems, it is available in Trace, HPLC, and Bio configurations to meet a wide range of scientific application requirements.



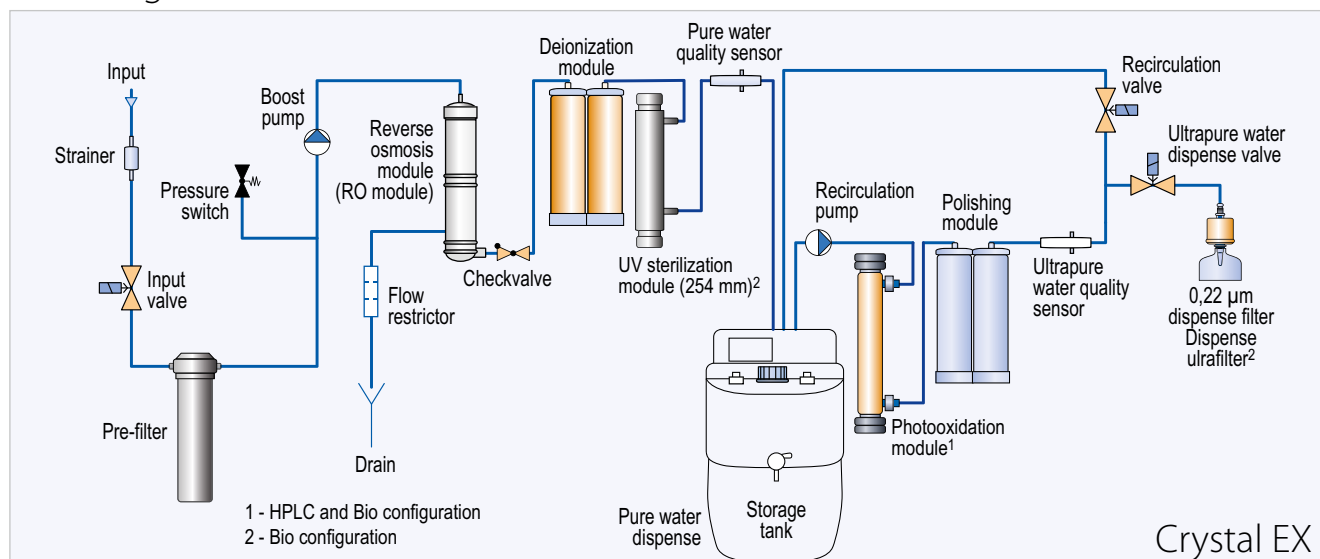
Ordering information

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 $> 0.5 \mu\text{m}/\text{cm}$ constantly or every 12 months	
10030	Polishing module "Polishing+"	Grade 1 water conductivity is $> 0.1 \mu\text{m}/\text{cm}$ constantly or every 12 months	
10017	Replacement sterilization UV bulb	On average – every 12 months	„Bio“ systems only
10018	Replacement photooxidation UV bulb	On average – every 12 months	„HPLC“ and „Bio“ systems only
10013	Replacement $0.22 \mu\text{m}$ dispense microfilter	Every 6–12 months	„Trace“ and „HPLC“ systems
10120	Replacement ultrafilter	Every 3–6 months	„Bio“ systems only

Flow diagram



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	- chromatography - mass spectrometry - microbiology - molecular 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 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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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**
Dispense rate, ultrapure water	1.5-2 L/min	1.5-2 L/min	1.5-2 L/min
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.

** Upgradeable to 15 L/h. Please enquire.

COMPACT

The new Compact ultrapure line builds on the proven performance of the Compact Pure systems, delivering both ultrapure Grade 1 and pure Grade 2 water.

Designed as a complement to the Crystal EX systems, Compact ultrapure line offers similar water quality specifications but in a more compact form.

It features an integrated ultrapure water dispenser and is intended for applications with relatively low (10-15 L) daily consumption.

The system combines performance, efficiency, and space-saving design at an especially attractive price point.



Description

	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	- chromatography - mass spectrometry - microbiology - molecular 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		

Consumables

Part number	Description	Replacement criteria	Comments
10320	Pre-filter	When the filters are clogged or when filter timer has run out, approximately, every 6 months	
10314	Combined deionization and polishing module	When warning symbol is present. When Grade 1 water conductivity is constantly >0.1 µm/cm or every 12 months	
10104	UV LED sterilization module	When required (on average – every 2 years)	„Bio“ systems only
10018	Replacement photooxidation UV bulb	On average – every 12 months	„Trace“ and „HPLC“ systems
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

Specifications Compact

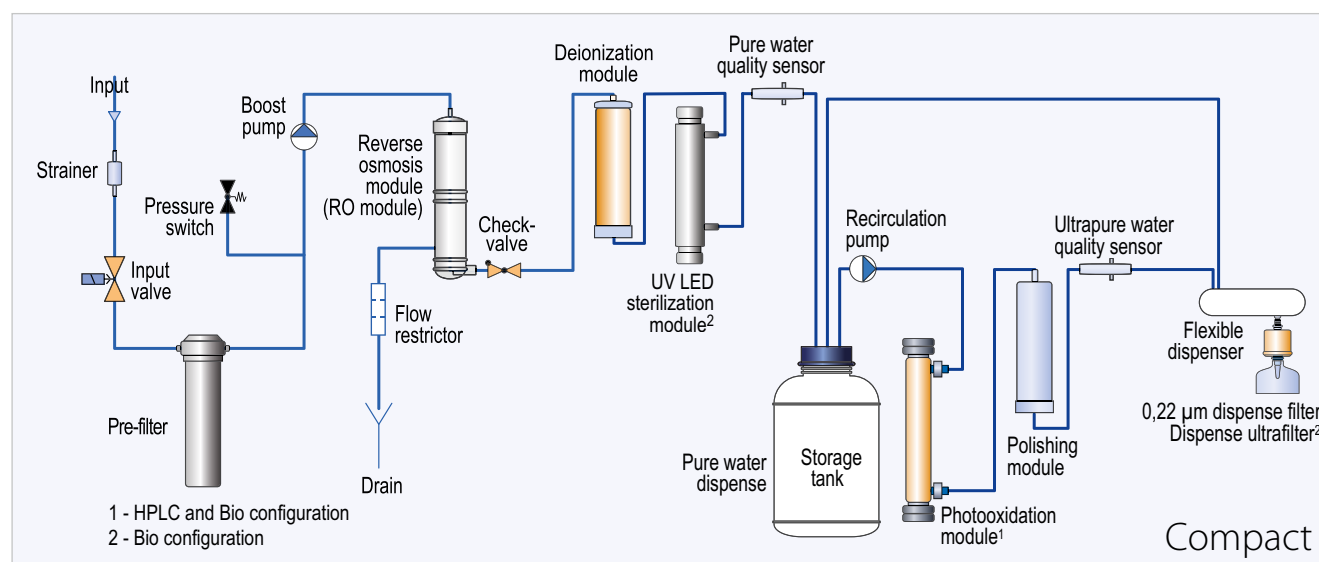
	Compact Trace	Compact HPLC	Compact Bio
Grade 1 water resistivity at 25 °C	18.2 MΩ x cm	18.2 MΩ x cm	18.2 MΩ x cm
Grade 1 water conductivity at 25 °C	0.055 μS/cm	0.055 μS/cm	0.055 μS/cm
Grade 2 water resistivity at 25 °C	>10 MΩ x cm	>10 MΩ x cm	>10 MΩ x cm
Grade 2 water conductivity at 25 °C	<0.1 μS/cm	<0.1 μS/cm	<0.1 μS/cm
TOC	<10 ppb	<5 ppb*	<5 ppb*
Rnase	-	-	<1 pg/mL
Dnase	-	-	<5 pg/mL
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
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	10 L/h
Dispense rate, ultrapure water	Up to 1.5 L/min	Up to 1.5 L/min	Up to 1.5 L/min
Dimensions (Body), cm	26x36x45	26x36x45	26x36x45
Dimensions (w/ dispenser), cm	33x36x57	33x36x57	33x36x57
System weight, kg	17	17	17
Operation weight, kg	19	19	19

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

Ordering information

Model	Part number
Compact Trace	CT-1001
Compact HPLC	CT-1101
Compact Bio	CT-1201

Flow diagram



COMPACT RO & PURE

The Compact RO and Compact Pure are an excellent choice for a wide range of general laboratory applications - depending on the model, system produces reverse osmosis (RO) or pure (Grade 2) water in a space-saving design.

The Compact RO/Pure system is available in two configurations, with a choice of either an atmospheric storage tank or a pressurized external storage tank.

This flexibility allows seamless integration into various laboratory setups, including those where both reverse osmosis (RO) and pure (Grade 2) water are required from a single system. For example, the Compact Pure model with a pressurized tank can simultaneously provide a direct RO water feed to autoclaves or glassware washers, while also supplying Grade 2 water for general laboratory applications.



The Compact Pure system (Grade 2 pure water) is also available with an integrated, self-regenerating EDI (electrodeionization) module, ensuring cost-effective, long-term operation. It is especially well-suited for laboratories with higher daily water consumption.

Adrona offers a wide range of storage tank sizes and pump dosing options. Please refer to the Accessories section for more details.

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"		

* Typically ≥98.5%.

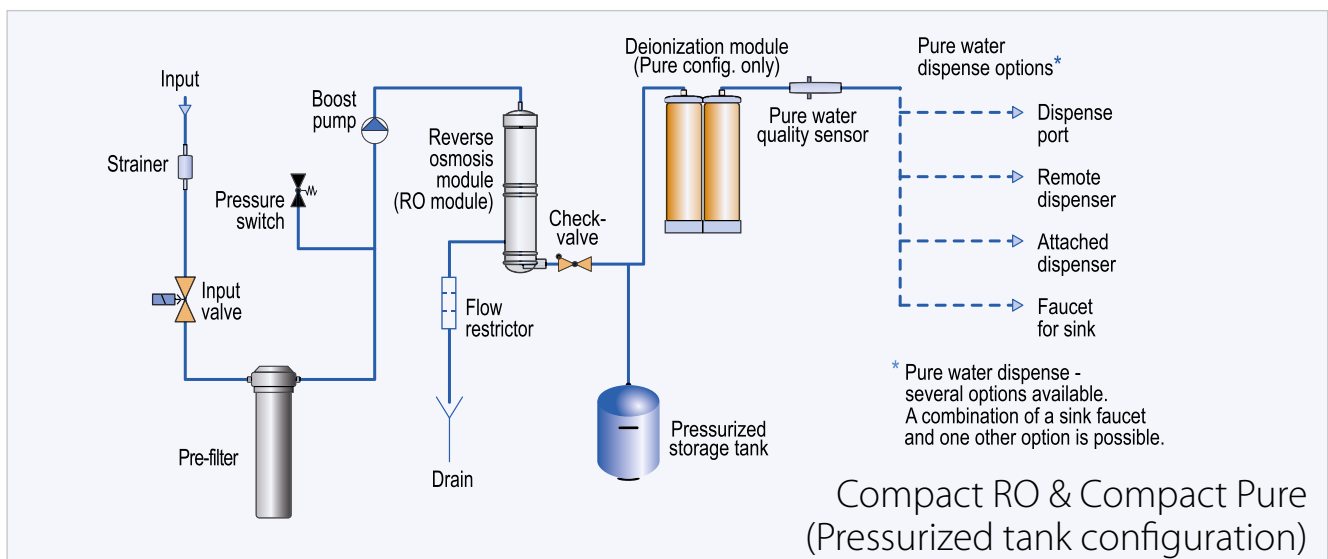
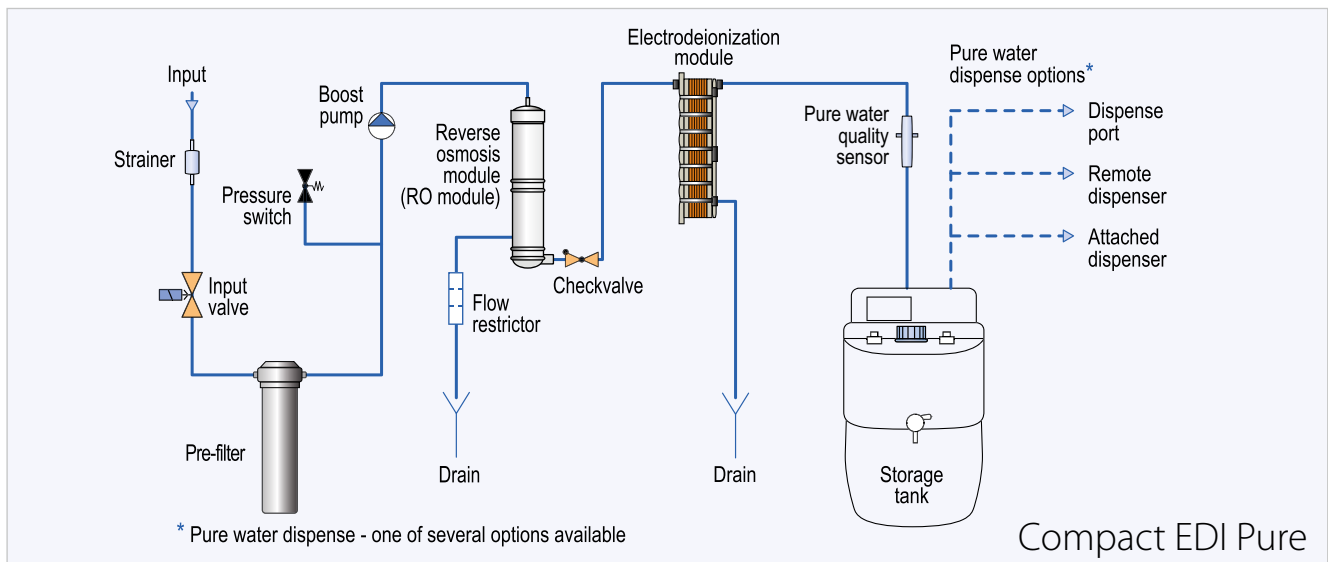
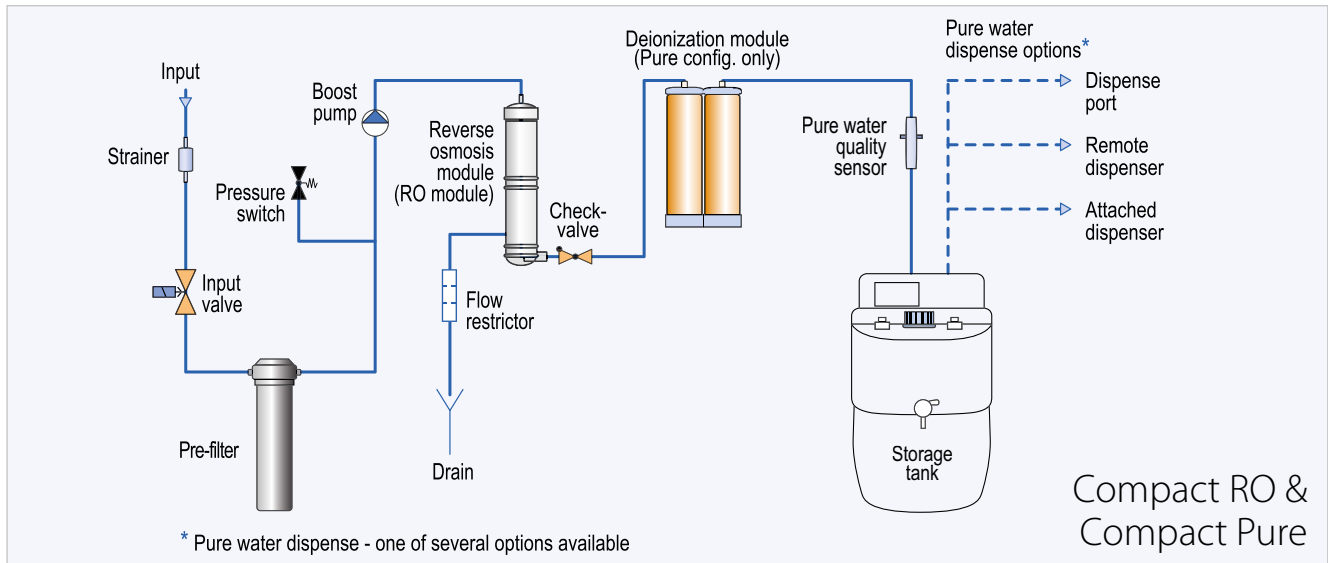
Consumables

Part number	Description	Replacement criteria	Comments
10320	Pre-filter	When the filters are clogged or when filter timer has run 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	Atmospheric
Compact 5 EDI Pure	CT-5100	
Compact 10 EDI Pure	CT-5200	
Compact 15 EDI Pure	CT-5300	
Compact RO	CT-1246	Pressurized
Compact Pure	CT-1006	

Flow diagrams



CRYSTAL EX DOUBLE FLOW

The Crystal EX Double Flow system delivers pure (Grade 2) water directly from tap water, with a standard flow rate of 20 L/h. Designed for laboratories with increased daily water consumption (30 liters/day or more), it offers an efficient solution for consistent water production. Thanks to its large-capacity 8-liter deionization module, the system

ensures reduced long-term operating costs and extended maintenance intervals.

Purified water is stored in an external tank, connected via a level switch to enable fully autonomous operation. A variety of tank sizes and accessories are available, please refer to the Accessories section for more details.



Ordering information

Model	Part number
Crystal EX Double Flow	EX20-1002HC

Specifications

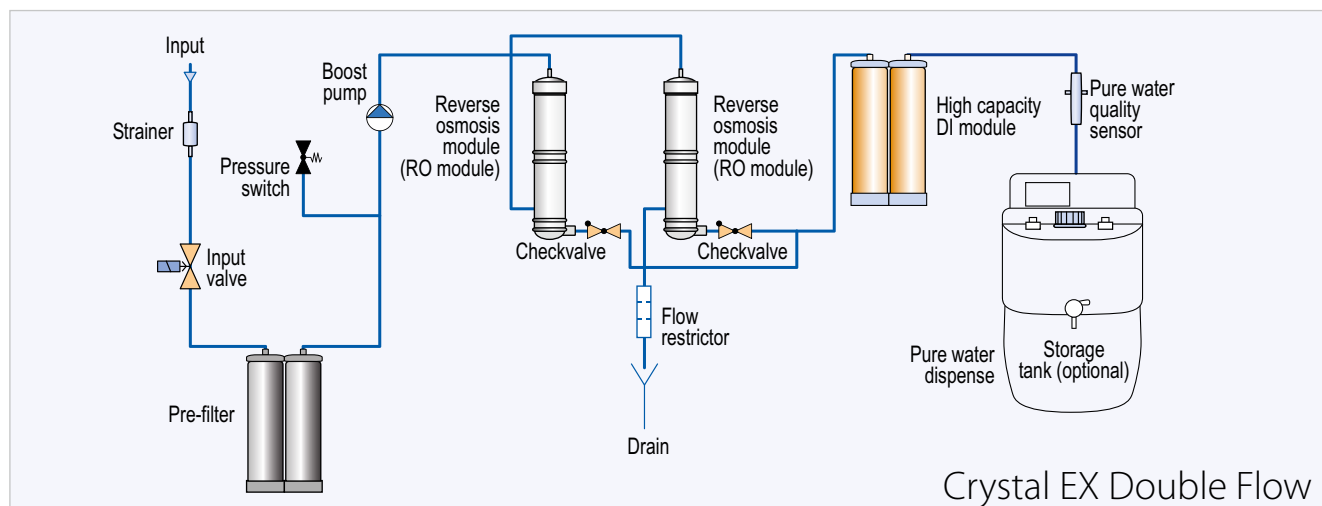
Grade 2 water resistivity at 25 °C	>10 MΩ x cm
Grade 2 water conductivity at 25 °C	<0.1 μS/cm
Particles >0.22 μm	<1 per mL
Nominal flow, pure water (to storage tank)	20 L/h
Dimensions (WxDxH), cm	40x50x55
System weight, kg	26
Operation weight, kg	39
Feed water pressure	0.4 – 4 bar
Feed water conductivity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

Description

Water type	Grade 2 water
Application	• flame spectrophotometry • inorganic analytical methods • electrochemistry • buffer 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	On average – every 12 months	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

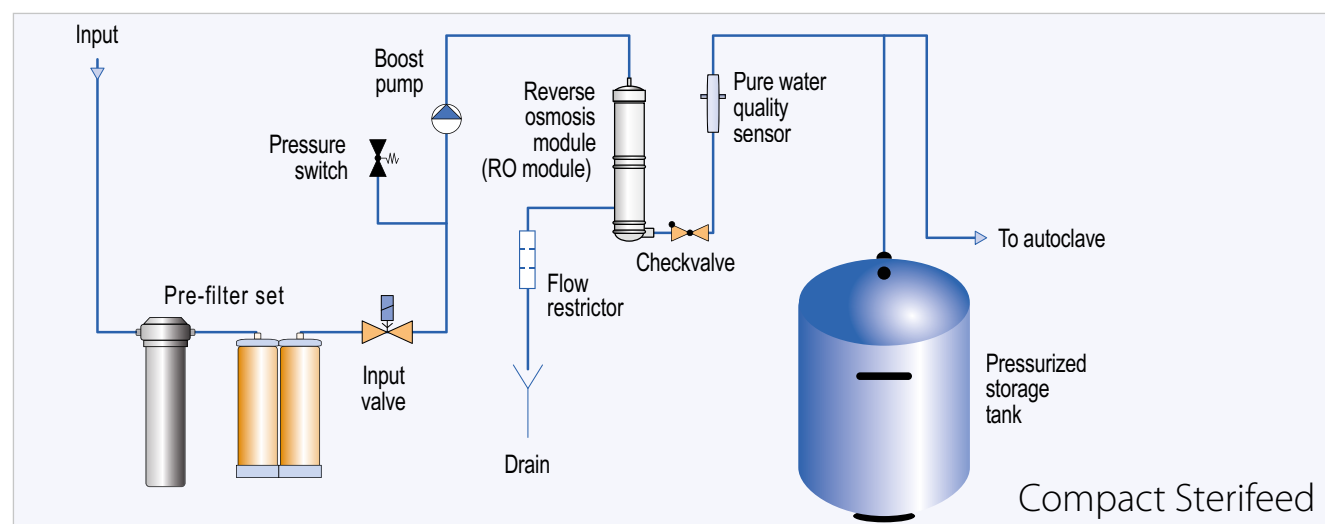
Water type	RO water
Application	Purified water for autoclaves
Display	Monochrome LCD
Conductivity sensor	•
TOC Monitor	-
Volumetric dispensing	-
Pressurized storage tank	Required, not included
Installation	Wall / bench

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.

Flow diagram



ONSITE+

The Onsite+ polishing system delivers ultrapure (Grade 1) water directly at the point of use, all in a compact, plug-and-play design. Its integrated 5-liter tank is manually filled with pre-treated water (such as reverse osmosis or distilled water), allowing ultrapure water production without the need for a permanent feedwater connection.

Like the other Adrona ultrapure water systems, Onsite+ features an internal automatic recirculation loop to ensure consistently high water quality. With only a standard power outlet required, the system offers virtually trouble-free installation, making it an ideal solution for flexible lab setups, remote locations or temporary workstations.



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	- chromatography - mass spectrometry - microbiology - molecular biology	highly sensitive biology applications
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

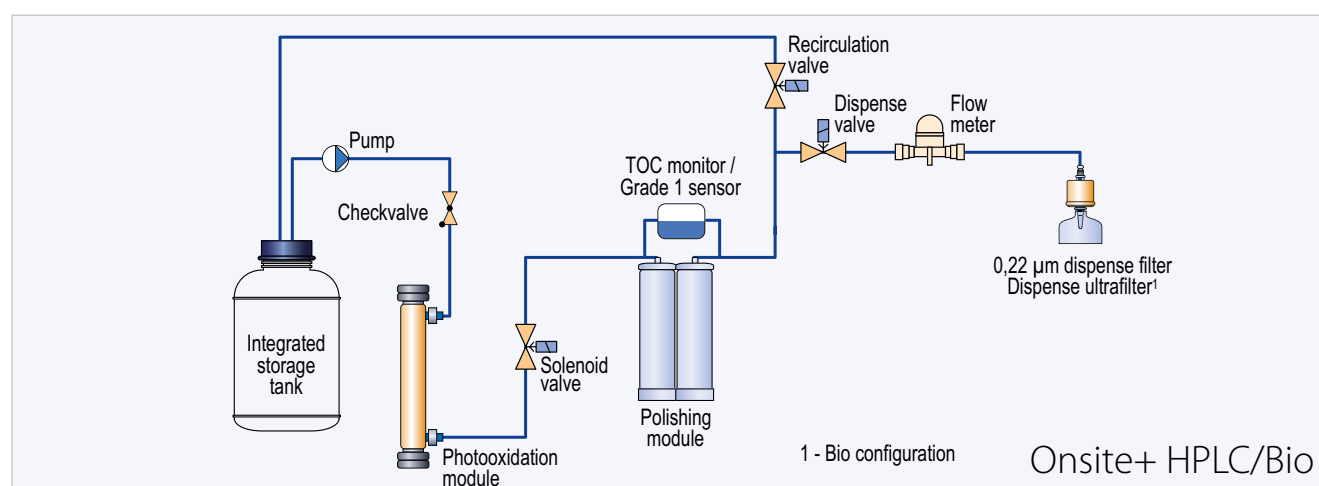
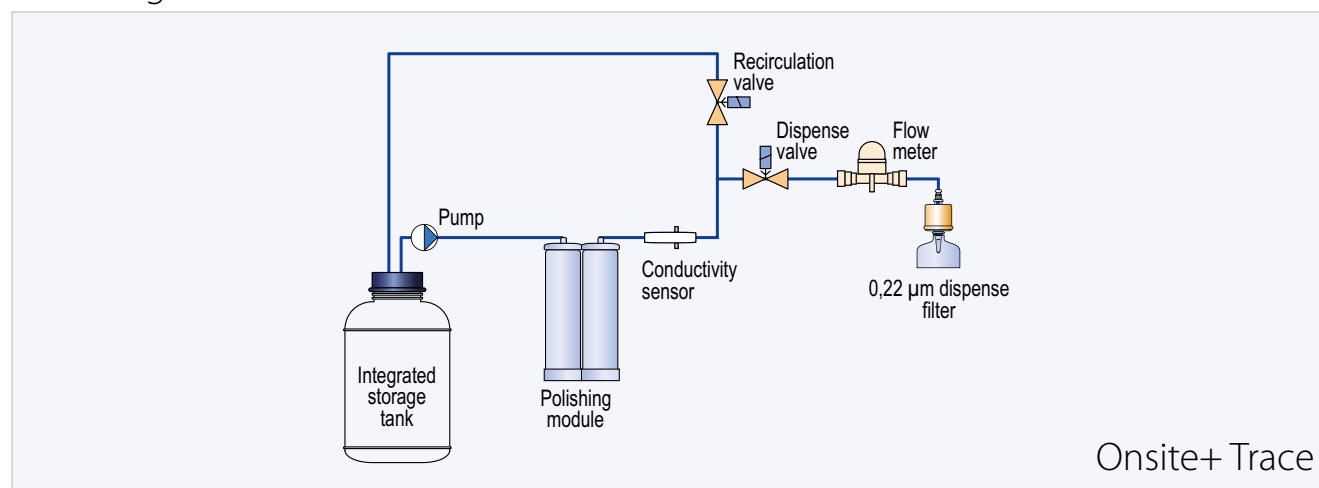
Part number	Description	Replacement criteria	Comments
10030	Polishing module "Polishing+"	Grade 1 water conductivity is >0.1 µm/cm constantly or every 12 months	
10018	UV photooxidation bulb	On average – every 12 months	Only for „Bio“ and „HPLC“
10013	Point-of-use microfilter	Every 6–12 months	Only for „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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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
Dispense rate, ultrapure water	<1.5 L/min	<1.5 L/min	<1.5 L/min
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.

Flow diagrams



CONNECT

The Adrona Connect polishing system, similar to the Onsite+ model, delivers ultrapure (Grade 1) water but is designed for direct connection to a pretreated water source.

Its flexible design allows for easy integration into a variety of laboratory environments. Connect can be installed with a pressurized, centralized pretreated water supply, including configurations with multiple systems at point-of-use stations throughout a facility.

Alternatively, it can be connected to a non-pressurized atmospheric tank containing pretreated water, with no additional booster pump required.



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 spectrometry • other inorganic trace analysis	• chromatography • mass spectrometry • microbiology • molecular biology	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 either on a laboratory bench or on a wall		

Consumables

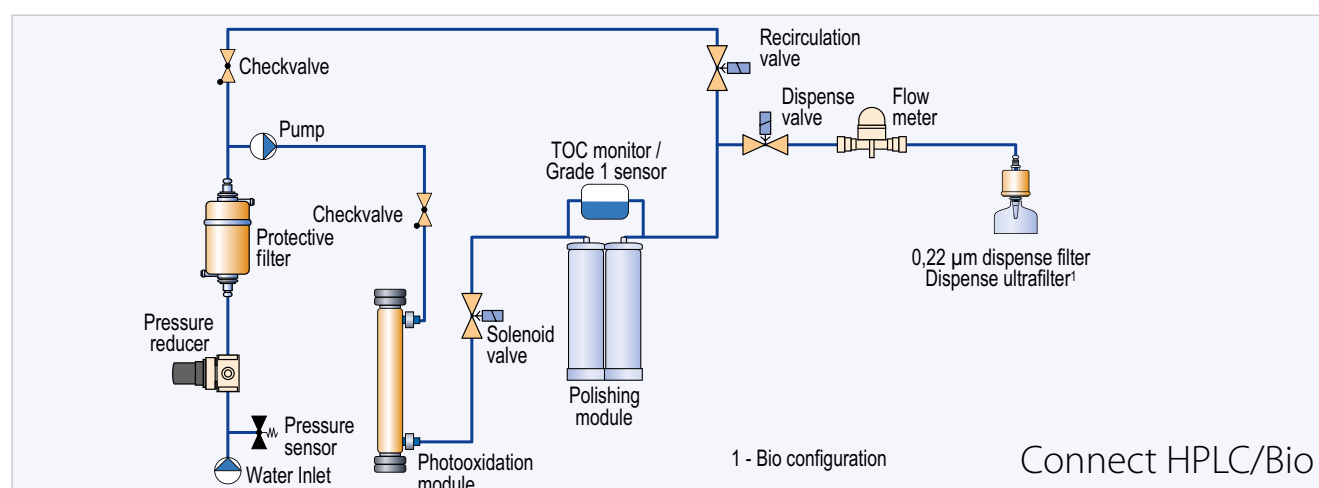
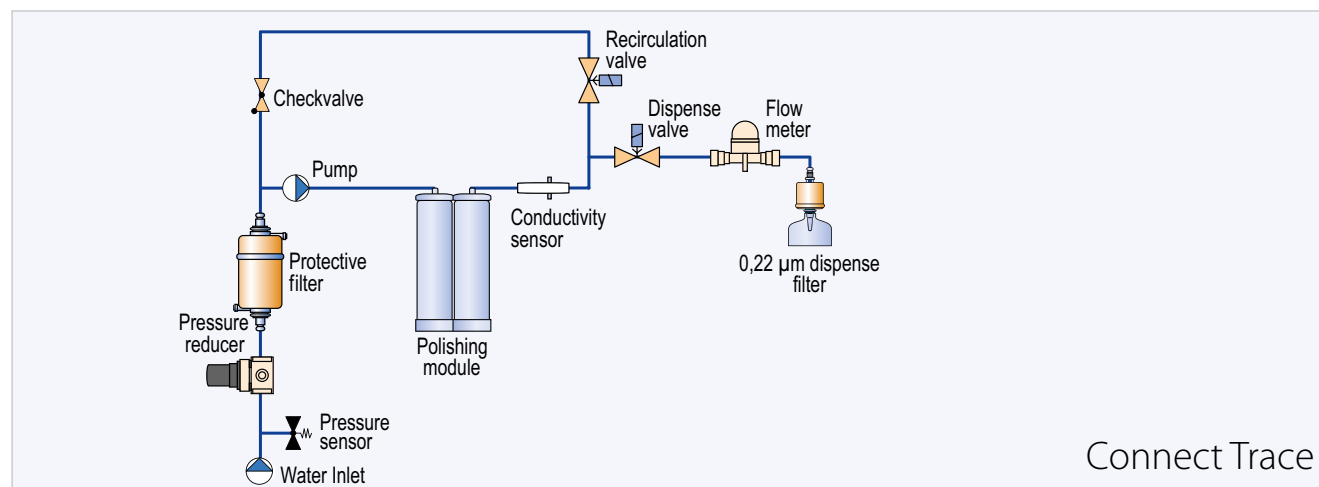
Part number	Description	Replacement criteria	Comments
10030	Polishing module "Polishing+"	Grade 1 water conductivity is >0.1 µm/cm constantly or every 12 months	
10018	UV photooxidation bulb	On average – every 12 months	Only for „Bio“ and „HPLC“
10013	Point-of-use microfilter	Every 6–12 months	Only for „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	-	-	< 1 pg/mL
DNase	-	-	< 5 pg/mL
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
Dispense rate, ultrapure water	<1.5-2 L/min	<1.5-2 L/min	<1.5-2 L/min
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

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

Flow diagrams



CONNECT LT

Adrona offers an upgraded version of the Connect polishing system: Connect LT, equipped with our latest-generation software controller and electronics. The system is operated via an intuitive, full-color touchscreen interface that ensures a seamless and user-friendly experience.

Connect LT includes advanced functionality such as complete dispensing and alarm history, data export via a USB-C port, and customizable user access levels with password protection. These features make it especially well-suited for institutions operating under Good Laboratory Practice (GLP) guidelines.



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
- Comprehensive system monitoring

Convenient

- Intuitive multilingual menu for easy navigation
- User-friendly design allows quick and hassle-free consumable replacement

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 capacity polishing module
- 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	-	< 1 pg/mL
DNase	-	< 5 pg/mL
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	29x44x61	29x44x61
System weight, kg	17	17
Operation weight, kg	20	20
Feed water conductivity	< 100 µS/cm	< 100 µS/cm

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

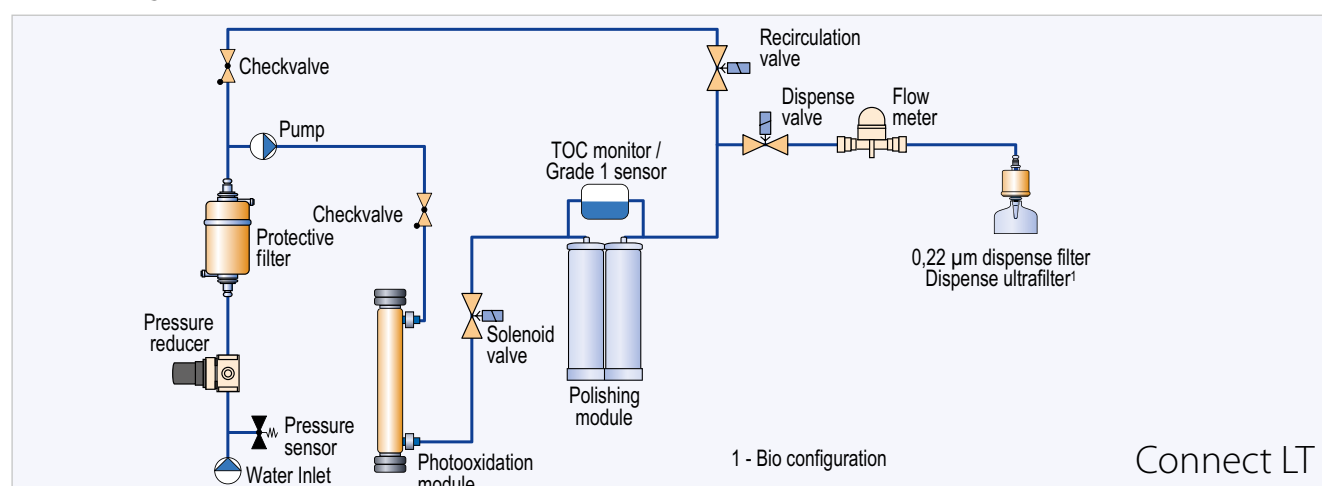
Description

	LT	LT Bio
Water type	ultrapure water (Grade 1)	ultrapure water (Grade 1)
Application	• chromatography • mass spectrometry • microbiology • molecular biology	highly sensitive biology applications
Display	7" colour touchscreen	
Conductivity sensor	•	•
TOC Monitor	•	•
Volumetric dispensing	•	•
Connection to Flow point	•	•
Installation	installable either on a laboratory 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 12 months	"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

Flow diagram



RADIX

When large volumes of Grade 2 or reverse osmosis (RO) water are needed, RADIX systems offer a versatile and efficient solution for a wide range of applications. Available in RO and EDI configurations, these systems can produce up to 250 liters of RO water or 150 liters of Grade 2 water per hour, depending on the model.

Engineered for reliability and durability, RADIX systems serve as high-capacity purified water sources requiring minimal maintenance while delivering exceptional output. The EDI configuration features a continuously self-regenerating electrodeionization module, keeping long-term operating costs to a minimum.



RADIX systems are designed to meet the demands of various high-capacity water purification needs. Typical applications include, but are not limited to:

- Central Laboratory Water Distribution

Efficiently supplies purified water to the entire facility through multiple point-of-use access points. Additional Grade 1 polishing units can be integrated based on specific purity requirements.

- Feed Water for Biochemical Analyzers

Ideal for hospitals, laboratories, and healthcare centers (RADIX EDI - Grade 2 systems). Depending on demand, a single RADIX unit can serve multiple analyzers simultaneously. A typical setup includes a RADIX system, atmospheric storage tank with automatic UV sanitization and CO₂ trap, a distribution module and in-line microfilter.

- Industrial Production Facilities

Supports various manufacturing industries requiring a reliable source of purified water.

- High-Capacity Equipment Supply

Provides consistent feed water for humidifiers, steam generators, and other high-consumption equipment.

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, µS/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	required, not included						

* Typically ≤0.1 µS/cm.

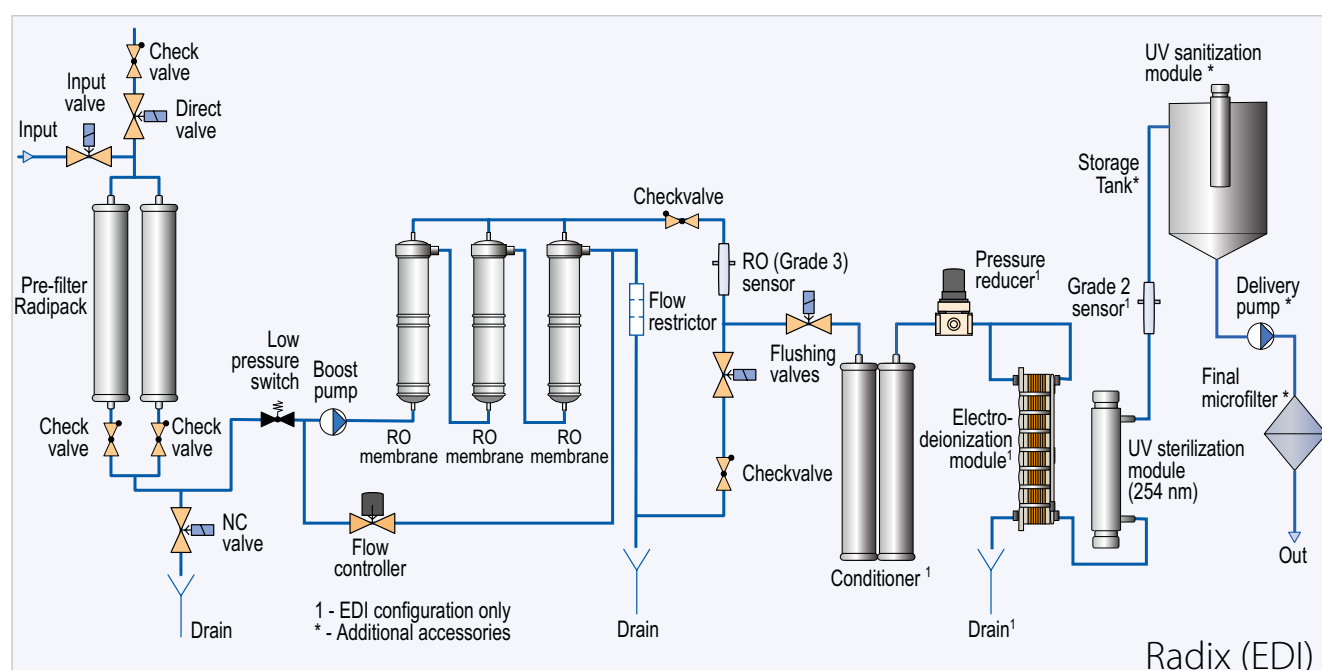
Ordering information

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

Consumables

Part number	Description	Replacement criteria
10420	Pre-filter RADIPACK	If the filters are clogged or every 6 months
10419	Pre-filter RADIPACK set	If the filters are clogged or every 6 months (For systems w/ capacity > 100 L/h)
10820	Conditioner	If the filters are clogged or every 6 months (EDI configuration)
10011	Replacement sterilization UV bulb	On average – every 12 months

Flow diagram



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 features:

- Flow rate control
- Drop-by-drop feature
- Volumetric dispense from 10 ml to 10 liters
- Compatible with:
Flow Point 3 - Q-Front, Q-Front EDI, Q-Front N, Onsite+, Integrity+ and Connect systems
Flow Point 4 - Gradus, B300, B310 and Connect LT systems

Online TOC monitor AD50



Fully automatic unit for reliable monitoring of organic substances in pure water. Measures TOC, conductivity, and temperature with real-time data and flexible integration options.

Features:

- Fully automatic operation
- Continuous TOC, conductivity, and temperature monitoring
- Adjustable alarm levels for all parameters
- Real-time charts and data logging
- 4–20 mA analog output for TOC
- Modbus-TCP interface for system integration
- Remote control capability
- Intuitive, user-friendly interface
- Secure data storage for traceability

Water storage tanks

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



- 13003** Water storage tank "Pro" w/ base, tap and level switch, 30 L
Dimensions: 39*44*60 cm



- 10007** Water storage tank "Comfort" w/ base, tap 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

- 10026** Storage tank "Comfort" w/ base and 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

- 13001** Atmospheric water storage tank "Basic" w/o base, w/ immersible pump, 10 L
Dimensions: 22*17*36 cm
Recommended for Compact systems

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

- 13012** Water storage tank "Basic" w/o base, w/ tap and level switch, 20 L
Dimensions: 29*26*39 cm

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

Pressurized water storage tanks

- 10110** Pressurized water storage tank, 12 L
Dimensions: 24*24*35 cm

- 10111** Pressurized water storage tank, 18 L
Dimensions: 28*28*35 cm



- 10112** Pressurized water storage tank, 60 L
Dimensions: 39*39*73 cm

- 10114** Pressurized water storage tank, 100 L
Dimensions: 43*43*93 cm

Accessories for storage tanks

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



10526	Water dispenser "Flow Point XR" Designed for Grade 1 water dispense with remote management Compatible with Gradus XT-300 system
10527	Water dispenser "Flow Point GR" Designed for Grade 2 water dispense with remote management Compatible with Gradus XT-300 system



10601 Dispense port
For Compact systems



10602 Universal remote dispenser with 3 m supply hose w/ fixed stand, w/o controller. Compatible with Grade 2 or RO water dispensing; requires distribution module part no. 13005 or 13008



10603 Attached dispenser
For Compact systems



10610 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

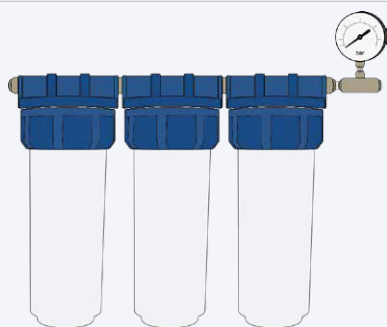
Water system sanitization cartridge

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

* Shipped separately due to shipment of dangerous cargo

Feed water inlet

10170	External pre-filter set (Carbon/PP, PP 1 µm) with manometer
-------	---



10177	External pre-filter set (Anti-scale, Carbon/PP, PP 1 µm) with manometer
10176	External pre-filter set (for Radix systems)
410222	Filter set for 10170 (Carbon/PP, PP 1 µm)
410337	Filter set for 10177 (Anti-scale, Carbon/PP, PP 1 µm)
410376	Filter set for 10176
10175	External input pressure reducer
410226	AquaStop, water leakage protection system

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 µS/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
---------	--

ADRONA reserves the right to amend or update the specifications in this brochure without prior notice.



**BUREAU
VERITAS**

adrona

Kalniciema str. 209, Rīga
LATVIA, LV – 1046
Tel. +371 67551894
Mob. +371 26112517
e-mail: info@adrona.lv
www.adrona.eu