

Water Purification Systems



Rowe Code: TBA

Applications

- Type I water for HPLC mobile phase preparation, sample dilution, buffer and cell culture media preparation, preparation of chemical solutions used with titrators, spectrophotometers and electrophoresis systems, preparation of culture media and reagents for molecular biology applications.

- Type III water for low-volume non critical applications such as glassware washing or rinsing.

Direct-Q® 3 Ultrapure Water Systems

Produce Type I and Type III reagent grade water directly from potable tap water

Type I Water Instant Flow Rate Above 0.5 L/min The Direct-Q 3 systems are designed for simple and intuitive operation. Water quality parameters (resistivity or conductivity, temperature) are clearly indicated on a bright colour display. The Direct-Q 3 systems allow delivery of a fixed volume of Type I water and automatically shut off once the selected volume has been delivered.

The Type I product water is suitable for most low-volume laboratory applications, including the preparation of buffers for liquid chromatography separations And biochemical experiments, of solutions for analytical techniques such as spectrophotometry and spectroscopy, and of culture media. For applications requiring very low organic contaminant levels, the Direct-Q 3 UV system also incorporates a dual wavelength UV lamp to produce water with <5 ppb TOC, making it suitable for HPLC, GC, ILC and TOC analyses.

With the BioPak™ cartridge as a final filter, Direct-Q 3 systems produce pyrogen-free, RNase-free water for cell culture and molecular biology applications.

Features

- Produce Type I ultrapure water (18.2 MW-cm resistivity at 25 °C and < 10 ppb Total Organic Carbon) on demand directly from potable tap water.
- Available with a built-in 185 and 254 nm UV lamp for production of low TOC water required by organic-sensitive applications.
- Produce Type III (Reverse Osmosis) water for basic lab applications at a flow rate of 2.4 L/hr at 15 °C. Type III water is easily available from the 6 L built-in reservoir.
- Maintenance reduced to a simple cartridge change once or twice a year.
- Ideal for laboratories that do not have easy access to pretreated water and need between 1 and 10L of ultrapure water per day.
- Alarm warning in case of a sudden drop in the quality of the product water.
- Dispensing adapted to different size laboratory glassware.
- Time-saving fixed volume dispense.

* In regular operating conditions

** With Millipak Express 20 (0.22 µm) membrane filter or with BioPak ultrafiltration cartridge as final polisher

***Only with BioPak ultrafiltration cartridge as final polisher

Pure (Type III) Product Water Quality*	
Ionic Rejection, %	>94
Organic Rejection for MW > 200, %	>99
Bacteria and Particulates, %	>99
Flow Rate	2.4 L/h at 15 °C (typical)

Ultrapure (Type I) Product Water Quality*	
Resistivity, MW-cm at 25 °C	18.2
TOC (Direct-Q 3 system)	<10 ppb
TOC (Direct-Q 3 UV system with 185//254 nm UV lamp)	<5 ppb
Particulates (size > 0.22 µm)**	<1 Particulate/mL
Bacteria**	<1 cfu/mL
Endotoxin***	<0.01 EU/mL
RNase***	<0.003 ng/mL
Flow Rate (w/ Millipak® Express 20 filter or BioPak™ cartridge)	>0.5 L/ min
System Dimensions	
Height, cm	54
Width, cm	29
Depth, cm	42
Operating Weight, kg (lb)	
Direct-Q 3 system without 185//254 nm UV lamp	17.6 (38.8)
Direct-Q 3 UV system with 185//254 nm UV lamp	18.2 (40.1)

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Water Purification Systems

Direct-Q™ 5 Ultrapure Water Systems

Produce up to 0.6 L/min of ultrapure water from tap

Compact System Produces Type I Water Directly from Tap

The Direct-Q 5 tap-fed water purification system is designed for scientists who need 5 to 15 L of ultrapure water per day and do not have easy access to acceptable quality pretreated water. This compact, silent system produces up to 0.6 L/min of ultrapure (Type I) water on demand, directly from potable tap water. Direct-Q system performance characteristics are automatically monitored by pressure, temperature and resistivity sensors, and are clearly shown on the system's display, which also indicates when routine maintenance should be performed

Features

- Progard™ plug-in pretreatment pack
- Constant water flow-rate
- Automatic refilling of the 10 L reservoir
- Quiet operation



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Resistivity, MW·cm at 25 °C	18.2
TOC, ppb – with Quantum IX	<30
TOC, ppb – with Quantum EX	<10
Particulates	0.22 µm sterilizing filter
Dimensions (with 10 L reservoir attached)	
Height, cm	45.7
Width, cm	25.5
Depth, cm	50.0
Operating Weight (with full reservoir), kg	29.5
Type I water flow rate (L/min)	Up to 0.6
Type III water flow rate (L/hour)	Up to 5

Applications

- Culture Media
- Buffers
- Blanks or Standard Solutions

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Water Purification Systems



Rowe Code: TBA

Applications

- Microbiological media preparation
- Buffer preparation
- Hydroponics
- Manufacturing chemical and biochemical reagents
- Purified water for pharmaceutical applications (according to US and European Pharmacopeia)
- Feed for laboratory equipment (washing machines, clinical analyzers, stability chambers, humidifiers, autoclaves, weathering test equipment instruments, hydrogen gas generators)
- Feed to Milli-Q® ultrapure water systems

Elix® 3/5/10 Water Purification Systems

The standard for analytical-grade water

Produce Consistently-pure Type II Water from Tap

Elix system water meets or exceeds Type II water quality (corresponding to analytical-grade water) as defined by CAP, CLSI and ISO® 3696/BS 3997. With easy operation and maintenance, Elix systems have set a new standard in the pure water market.

With Elix systems, control of water purity is built-in to every step of the purification process – ensuring that water quality will be a constant in your applications – not an additional variable.

Features

- A unique and easy-to-install prefiltration pack unit
- Self-maintenance of the reverse osmosis membrane
- Self-regeneration of the ion-exchange resins by an electrical current
- Advanced reverse osmosis technology with high recovery loop reduces water consumption by more than 50%
- Constant product flow rate
- Integrated UV lamp for optimum water quality for applications sensitive to bacteria
- All system functions are accessible from a user-friendly keypad and displayed on backlit screen

Elix 3 System	Elix 5 System	Elix 10 System
10 to 60 L per day	50 to 100 L per day	100 to 200 L per day

Elix® 20/35/70/100 Water Purification Systems

Type II analytical-grade water

Produce Up to 4000 L/day of Pure Water

Elix systems are designed to produce up to 4000 L/day of Type II analytical-grade water from potable tap feedwater to meet or exceed the relevant standards defined by CLSI, ISO® 3696 / BS 3997 and the European and US Pharmacopoeia.

One Complete Purification and Control Unit

Elix systems can be integrated into a centralized system, providing total control of all parameters within the system itself as well as within the external pure water distribution loop.

Features

- Total control of all functions, operating parameters and standard accessory components within the Elix system itself and within the external pure water distribution loop
- Patented Elix electrodeionization module continuously regenerates ion-exchange resins
- Built-in resistivity and TOC (Total Organic Carbon) monitoring to ensure water quality
- No additional softeners are required for most feedwater conditions
- Easy-to-replace pretreatment packs, tailored to the feedwater source
- Built-in UV lamp for bacteria-sensitive applications
- Systems contain integrated control functions for distribution loop components (pump, UV lamp, ASM, TOC and resistivity meters)

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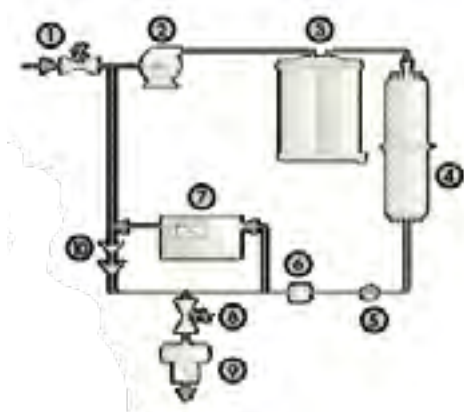
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Water Purification Systems

Milli-Q Academic

Designed for General Laboratory Applications.

The Milli-Q system employs a three-step purification process. A Q-Gard purification pack tailored to the feedwater source provides initial purification to optimize the performance of the downstream media. Secondary purification is provided by application-specific Quantum polishing cartridges, designed to remove ionic and organic contaminants down to trace levels. Final purification is provided by the 0.22 µm Millipak filter unit at the point-of-use for removal of bacteria and particles above 0.22 µm in size. The Milli-Q Academic polishing system measures both resistivity and total organic carbon (TOC) in compliance with USP 24 specifications.



1. Inlet Solenoid Valve
2. Pump
3. Q-Gard Pack
4. Quantum Cartridge
5. Resistivity Sensor
6. Strainer
7. A10 TOC Monitor
8. Outlet Solenoid Valve
9. Millipak Final Filter
10. Check Valve

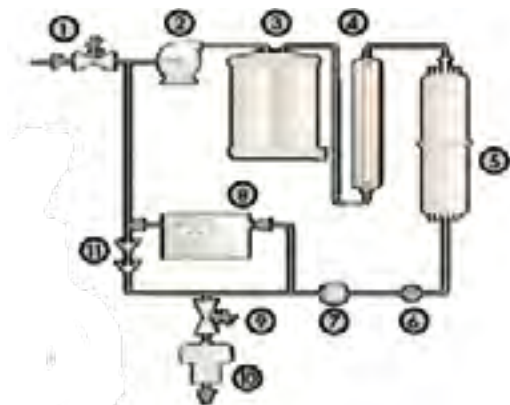


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Milli-Q Gradient

The preferred system for chromatography (HPLC, LC, ILC, GC-MS).

The Milli-Q Gradient system incorporates the same purification and monitoring techniques as the Milli-Q Academic. In addition, it includes UV photo-oxidation technology to reduce organics to levels below 5 ppb* for optimum chromatographic results and increased column life time. UV radiation is generated by a powerful (17 Watt) low-pressure mercury vapor lamp, constructed of ultrapure quartz to ensure optimal UV 185 and 254 nm transmission. An electro-polished 316 L stainless steel housing provides maximum UV light reflection for optimum efficiency. The 254 nm wavelength also acts as an effective germicidal treatment maintaining low bacterial levels within the system itself.



1. Inlet Solenoid Valve
2. Pump
3. Q-Gard Pack
4. UV lamp 185/254 nm
5. Quantum Cartridge
6. Resistivity Sensor
7. Strainer
8. A10 TOC Monitor
9. Outlet Solenoid Valve
10. Millipak Final Filter
11. Check Valve



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Water Purification Systems

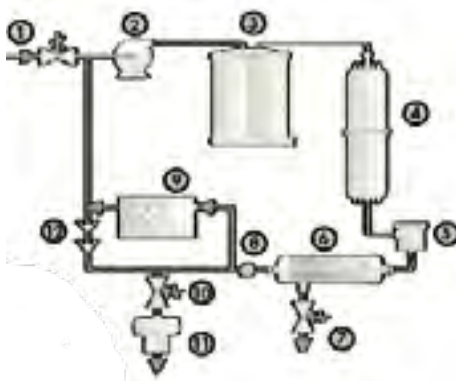


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Milli-Q Biocel

Designed for Life Science Applications.

The Milli-Q Biocel water purification system provides water quality that is ideal for life science applications such as electrophoresis buffers or serum based cell and tissue culture media preparation for plant cells or bacteria development. In addition to the Milli-Q Academic purification and monitoring techniques, the Milli-Q Biocel system incorporates ultrafiltration technology for removal of pyrogens and other bacterial by-products. The Pyrogard 5000 UF cartridge guarantees very low nuclease and pyrogen levels. Water produced by the Milli-Q Biocel system conveniently replaces DEPC-treated water.



1. Inlet Solenoid Valve
2. Pump
3. Q-Gard Pack
4. Quantum Cartridge
5. Sanitization Port
6. Pyrogard 5000 UF Cartridge
7. Automatic Flush Solenoid Valve
8. Resistivity Sensor
9. A10 TOC Monitor
10. Outlet Solenoid Valve
11. Millipak Final Filter
12. Check Valve

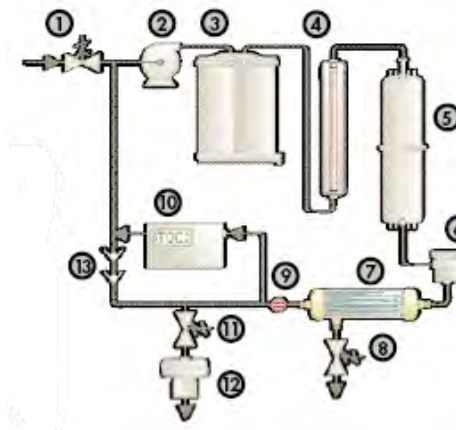


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Milli-Q Synthesis

Designed for Critical Biological Applications.

The Milli-Q Synthesis water purification system combines the Milli-Q Academic purification and monitoring techniques with both UV photo-oxidation and ultrafiltration technologies. The Milli-Q Synthesis system produces water that has extremely low ionic, organic, pyrogen and nuclease contamination. This water quality is a convenient replacement for DEPC-treated water and is ideal for molecular biology techniques such as PCR, 2-D electrophoresis, and DNA sequencing. It is also recommended for the production of buffers and defined cell culture media used in mammalian cell culture.



1. Inlet Solenoid Valve
2. Pump
3. Q-Gard Pack
4. UV Lamp 185/254 nm
5. Quantum Cartridge
6. Sanitization Port
7. Pyrogard 5000 UF Cartridge
8. Automatic Flush Solenoid Valve
9. Resistivity Sensor
10. A10 TOC Monitor
11. Outlet Solenoid Valve
12. Millipak Final Filter
13. Check Valve

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Water Purification Systems

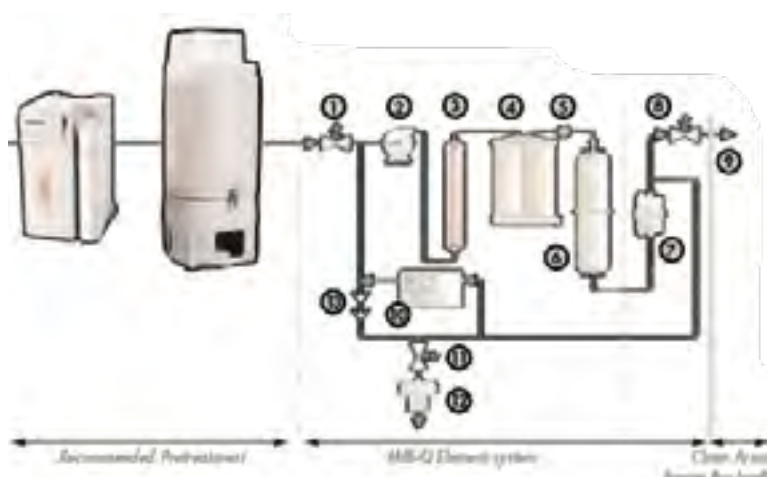
Milli-Q Element

Designed for elemental ultra-traceanalysis (ICP-MS, FAAS, ILC).

The Milli-Q Element system is designed using ultra-clean materials and an optimized succession of water purification technologies to provide the highest quality water, free of contaminants that are detrimental to trace elemental analysis. Specific consumables (Q-Gard B1, Quantum ICP and Optimizer LW (0.1 μm) final filter are designed to produce ultrapure water reaching detection limits at ppt and ppq levels, depending on the element considered (Millipore brochures are available on request for detailed analysis and experimental conditions). Foot-pedal activation allows for hands-free, contaminant-free operation in a clean area.



Rowe Code: TBA



1. Inlet Solenoid Valve
2. Pump
3. UV Lamp 185/254 nm
4. Q-Gard Pack
5. Resistivity Sensor
6. Quantum ICP Cartridge
7. Optimizer LW 0.1 μm Final Filter
8. Ultra Clean Solenoid Valve
9. Water Delivery in Clean Area
10. A10 TOC Monitor
11. Outlet Solenoid Valve
12. Millipak Final Filter
13. Check Valve

Milli-Q bench-integrated Systems

Design your laboratory to save bench space.

The Milli-Q systems described in the previous pages are also available as bench-integrated systems. Designed for the functions of ultrapure water production, point-of-use dispensing, and water system monitoring to be separately located where most convenient, Milli-Q benchintegrated systems are easily accommodated within all lab environments. The water production unit can be conveniently positioned on a rollout underbench shelf, with the display and monitoring functions built into the bench panel at the point-of-use. The Milli-Q remote POU dispenser can be located where it is most convenient. Foot-pedal activation is available as an option for hands-free, contaminant-free operation of a Milli-Q system. For laboratories requiring a complete purification chain, Millipore offers RiOs and Elix systems for pretreatment to Milli-Q systems, and also offers reservoirs for purified water storage that can all be easily accommodated under the bench.



Milli-Q systems have 2 built-in monitors:

- Resistivity meter with a 0.01 cm⁻¹ nominal cell constant and 0.1 °C accuracy thermistor for accurate monitoring of trace ionic contamination. The resistivity meter reports conductivity ($\mu\text{S}/\text{cm}$) or resistivity ($\text{M}\Omega\cdot\text{cm}$) compensated or not at 25 °C and meets USP 24 requirements.
- TOC monitor with a 1 to 999 ppb detection range for accurate analysis of organics. The TOC monitor passes the USP 24 suitability test.

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Water Purification Systems

RiOs-DI™ 3 UV Water Purification Systems



Rowe Code: TBA

Produce up to 10 L/day of high quality analytical grade water (Type II water) from tap

Compact System Integrates Several Purification Technologies
The RiOs-DI 3 UV system is a very compact solution that efficiently combines reverse osmosis technology with deionization resins to produce high quality pure water of high resistivity and low TOC (>10 MW-cm and <50 ppb). The system's product water is stored in an internal reservoir and is ideal for low volume routine laboratory applications.

The unique simple "plug-and-use" purification pack enables the production of high quality (Type II) water from tap water. To ensure reliable contaminant removal, the pump-assisted flow of tap water steadily reaches the cartridge, in spite of low pressure on the supply side or drop in water temperature.

Applications

- Buffer and reagent preparation
- Microbiological culture media preparation
- General washing
- Feed to Milli-Q® and Synergy® ultrapure water systems

Features

- Combining several purification technologies including Reverse Osmosis and Deionization, the RiOs-DI 3 UV system removes all types of water contaminants (typically >99 %).
- The built in UV lamp* is ideal for applications that require low bacteria levels.
- The consumable is a "unique all-in-one" pack that includes the pre-treatment, reverse osmosis membrane and ion-exchange resin.
- Maintenance is reduced to the quick change of a single cartridge.
- Backlit colour display shows resistivity, temperature and water level in reservoir.
- Integrated, compact 6-liter reservoir.

* This system is also available without UV lamp.

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Water Purification Systems

RiOs™ 5 /8 /16 Water Purification Systems

RiOs water purification systems are ideal for the production of laboratory-grade water, which is particularly suitable for glassware rinsing, feedwater for humidifiers, autoclaves, washing machines and Milli-Q® ultrapure water systems.

RiOs systems are fed directly with potable tap water and combine complementary purification technologies in a compact system design that is easy to operate, reliable, and allows total control over the water produced at a low operating cost. Bench-operated, wall-mounted or bench-integrated, RiOs systems are designed to fit your space requirements. A complete range of RiOs systems and specially designed storage reservoirs are available to meet the needs of laboratories requiring anywhere from 10 to 300 liters of pure water per day. Larger systems, based on the same principle, are also available for users with needs of up to 5000 liters per day.

By filtration through a Reverse Osmosis (RO) membrane, RiOs systems ensure the removal of all contaminants initially present in potable water (as shown in the table). The semi-permeable RO membrane is protected from clogging by using a pretreatment pack that contains a combination of complementary technologies. The water produced in the reservoir is always of optimal quality; each time the system is restarted, water is rejected until its quality meets the required expectations. High performance RO systems



Rowe Code: TBA

Benefits

- Pure water is always available and no longer depends on the temperature of the feedwater. RiOs systems provide water with a constant flow rate.
- A unique and easy-to-install prefiltration pack unit (plug-and-use concept) includes three types of purification media.
- The reverse osmosis membrane is self-maintaining due to the automatic flushing cycles.
- System functions are easily accessible by a user-friendly keypad. The information is displayed in the chosen language on an easy-to-read alphanumeric backlit display. The screen angle can be adjusted.
- Advanced reverse osmosis technology reduces water consumption by more than 50 % due to the high recovery loop, and doubles the lifetime of the pretreatment pack as the recovered water has already been pretreated.
- Replacement of the pretreatment pack is calculated based upon the actual amount of water pretreated.
- The entire pretreatment sequence results in a long life expectancy for the RO membrane, thus decreasing running costs.

Contaminant	Rejection*	Passage*
Ions	94-99 %	1-6%
Organics	≥99 %	≤1%
Particles	≥99 %	≤1%
Microorganism	≥99 %	≤1%
*Typical Values		

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Water Purification Systems



Rowe Code: TBA

Simplicity® Ultrapure Water Systems

Type I ultrapure water for scientists who require less than 5 liters per day

Type I Reagent Grade Water, Flow Rate Above 0.5 L/min

The Simplicity portable water purification system can be located anywhere in your laboratory. It requires no special installation, no water feed connection and produces ultrapure water on demand from pretreated water (Elix® system, distilled, deionized or reverse osmosis water).

For scientists who use less than 5 liters of ultrapure water per day, the Simplicity system is an economical alternative for laboratories that currently use bottled water. Simplicity ultrapure water, produced and used at the point-of-use, is not subject to the degradation and contamination that affects bottled water. The intuitive colour graphic display of the Simplicity system means that you can instantly see all system parameters, whether you want to know the water quality, reservoir level or when to replace the pack. With its integrated, removable reservoir, the Simplicity system is designed to make your work easier. The Simplicity UV system contains a built-in dual-wavelength UV lamp (185 and 254 nm) to reduce organic contaminants to < 5 ppb in your ultrapure water, making it suitable for your sensitive applications, such as HPLC, GC and TOC analysis.

Applications

- Production of mobile phase for chromatographic separations
- Preparation of blanks and standard solutions for spectrophotometry, spectroscopy or other analytical techniques
- Preparation of buffers for biochemical experiments

Features

- Produces Type I water (18.2 MW-cm at 25 °C ultrapure water) on demand from pretreated water (reverse osmosis or deionized water)*.
- Installation requires no plumbing.
- System draws water from a removable, refillable, built-in reservoir.
- Flow rate > 0.5 L/min.
- Maintenance reduced to a single cartridge change once or twice a year, based on the resistivity value displayed for the ultrapure water produced .
- System designed for users needing between 1 and 5 liters of ultrapure water per day with instant flow rate of 0.5 L/min.
- System comes with or without a UV lamp (depending on incidence of TOC on applications).
- Alarm function in the event of a sudden drop in the quality of the product water guarantees your water quality at all times.
- Dispensing adapted to different size laboratory glassware.

	Simplicity	Simplicity UV
Resistivity, MW-cm at 25 °C	18.2	18.2
TOC, ppb	<15	<5
Flow Rate, L/min	>0.5	>0.5
Final Filter, µm	0.05	0.05
Dimensions		
Height, cm	51	51
Width, cm	29	29
Depth, cm	36	36
Operating Weight, kg (lb)	8.4	9
*The Milli-DI system provides a convenient feedwater source for Simplicity systems.		

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Water Purification Systems

Synergy® Ultrapure Water Systems

Type I reagent grade water with a flow rate above 1 L/min

Ultrapure Water from Pretreated Water for Low-Volume Critical Applications
The Synergy system is designed for laboratories that already have access to purified water and need a point-of-use system to supply high quality ultrapure water. The compact design assures easy installation anywhere in your lab, on the bench or wall-mounted. The Synergy system allows delivery of a fixed volume of Type I water and automatically shuts off once the selected volume has been delivered.

For applications requiring very low organic contaminants levels, the Synergy system also incorporates a dual wavelength UV lamp to produce water with <5 ppb TOC (when feedwater TOC is below 50 ppb), making it suitable for HPLC, GC, ILC and TOC analyses. With the BioPak™ cartridge as a final filter, Synergy systems produce pyrogen-free, Nuclease-free water.

The Synergy system is designed for simple and intuitive operation. Water quality parameters (resistivity or conductivity, temperature) are clearly indicated on a bright colour display. Maintenance is limited to a quick and easy replacement of a single consumable.

Features

- Produces Type I water (18.2 MW·cm at 25 °C ultrapure water) on demand from pretreated water (reverse osmosis or demineralized water).
- Maintenance reduced to a single cartridge change once or twice a year, depending on the volume produced and the quality of the pure water feed.
- System designed for users needing between 2 and 20 liters of ultrapure water per day with instant flow rate of 1 L/min.
- Quality suitable for HPLC and other spectrophotometric/spectroscopic analytical techniques for biological, biochemical, and cell culture applications
- Dispensing adapted to different size laboratory glassware.
- Time-saving fixed-volume dispense.

Specifications	
Resistivity, MW·cm at 25 °C	18.2
TOC, ppb – Synergy System*	<10
TOC, ppb – Synergy UV System*	< 5
Final Filter	0.22 µm sterilizing filter or BioPak ultrafilter
Height, cm	54
Width, cm	29
Depth, cm	38
Operating Weight, kg – Synergy System	9.7
Operating Weight, kg – Synergy UV System	10.2
Flow Rate, L/min	Up to 1.2
* Feedwater: Pretreated water (Elix® system, RO, distilled or DI water)	



Rowe Code: TBA

Applications

- LC buffer preparation
- HPLC isocratic and gradient solution preparation
- Sample dilution
- Buffer, reagents for molecular biology and cell culture media preparation
- Preparation of chemical solutions used with titrators, spectrophotometers and electrophoresis systems

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