intelligent, powerful & more sustainable

Milli-Q® HX 7000 Series

High-Capacity Pure Water Systems

MyMilli-Q™

Remote Services Capable

Milli-Q®

Lab Water Solutions

Milli-Q® HX 7000 Series

A modern range of high-throughput systems backed by decades of water purification expertise

Expertise to match today's changing laboratory environment

Laboratories around the world are evolving continually to keep pace with growing research requirements, new ways of sharing scientific information, the trend toward connectivity, and increasingly stringent environmental regulations. Adapting space and equipment to meet these new needs can be challenging for all involved.

As part of this process, your responsibilities may involve renovating or expanding existing labs — or planning, designing, and engineering entirely new facilities. In either case, you may need to specify water purification systems. That's where our expertise is key.

We have over 50 years of experience in the water purification business. Our products are designed to improve the quality and reliability of results — from research laboratories to QA/QC laboratories in the pharmaceutical industry.

Based on our extensive knowledge of laboratory applications and equipment, pharmaceutical industry requirements, and water purification technologies, we can help you select the appropriate water purification solution: a comprehensive total water purification package for a single laboratory, a suite of laboratories — or an entire laboratory building.

Our Milli-Q® HX 7000 water purification systems and SDS 500 (storage, protection and distribution systems) can be combined in compact and modular installations. One or more Milli-Q® HX 7000 systems can be provided in order to ensure the right water quality and quantity for each laboratory or department, and thus avoid very long distribution loops, which can encourage bacterial contamination. Such installations are not only easier to maintain and sanitize, but also offer greater flexibility in the event that adjustments are required for future lab upgrades or configuration changes. There is also the added benefit of redundancy in case a system backup is ever required.

Point-of-use Milli-Q® IQ 7000 polishing systems can be added throughout the installation as needed, in order to meet ultrapure water quality needs for more sensitive applications.

A total water purification systems partnership

To meet a customer's specific requirements, we work closely with stakeholders throughout the different project stages. End-user scientists, architects, consultants, lab and facilities managers, as well as contractors and equipment suppliers all have their own criteria that must be evaluated before any decisions can be made.

We help establish key parameters for the installation, including water quality and quantity, industry standard requirements, and considerations for long-term laboratory use. We're your partner throughout the project.

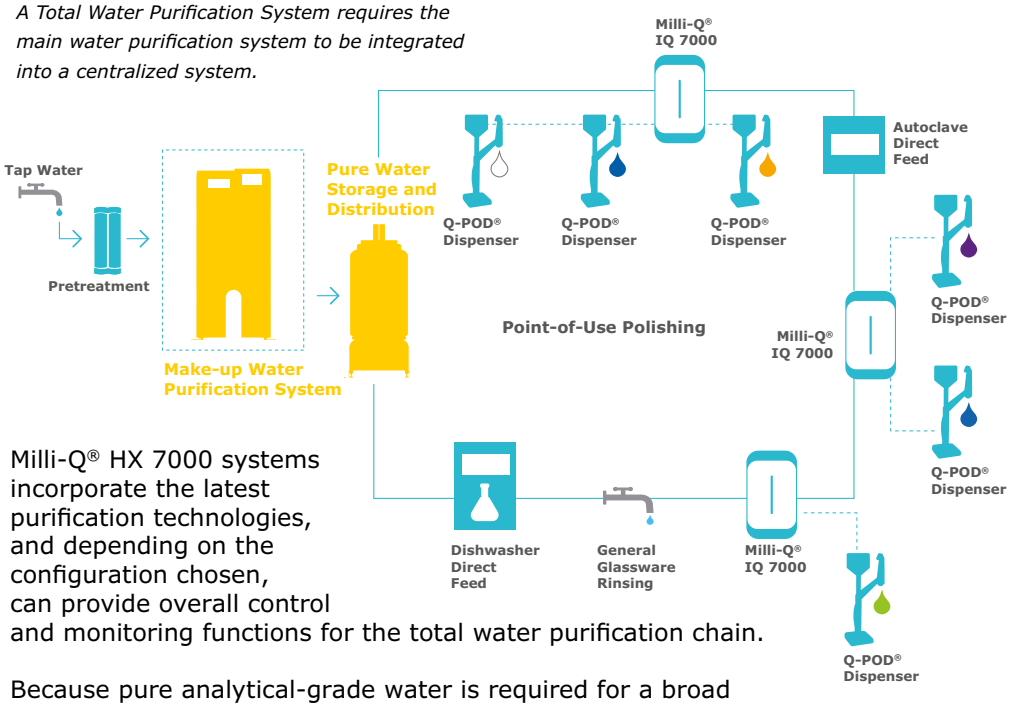
A comprehensive solution to match your needs

Purified water is required for a wide range of applications within a laboratory facility. The water quality needed can range from general laboratory grade to ultrapure water matching the sensitivity of critical research and analytical techniques. In addition, the water quantity can vary from a few liters for a single end-user to several hundred or thousand liters per day for a laboratory facility.

Our Milli-Q® HX 7040/7080/7120/7150 range is designed for customers who require a few hundred liters to up to several thousand liters per day of analytical-grade water. Placed at the heart of a total pure water solution, a Milli-Q® HX 7000 high-throughput system and accompanying SDS 500 pure water reservoir can be connected to additional components and accessories in order to build a comprehensive water purification system to match a customer's specific needs.

We are your partner of choice for total water purification systems — from conception and design, right through to engineering expertise and technical support services.

A Total Water Purification System requires the main water purification system to be integrated into a centralized system.



Millipak® Filter Units
HPLC, Buffer and Media Prep

Biopak® Polisher
Nuclease- and Protease-free water, Buffer and Media Prep (Stem Cells)

EDS-Pak® Polisher
Enviromental analysis

VOC-Pak® Polisher
GC-MS

LC-Pak® Polisher
UHPLC, LC-MS

Milli-Q® HX 7000 systems incorporate the latest purification technologies, and depending on the configuration chosen, can provide overall control and monitoring functions for the total water purification chain.

Because pure analytical-grade water is required for a broad range of laboratory applications, Milli-Q® HX 7000 systems are a perfect fit for labs everywhere, including those in the pharmaceutical, clinical, chemical, metallurgical, cosmetics, food & beverage, electronics and biotech sectors.

Product water from Milli-Q® HX 7000 systems is suitable for the following applications:

- Microbiological media preparation
- Buffer preparation
- Hydroponics
- Manufacturing chemical and biochemical reagents
- Pharmaceutical laboratories

Pure water produced by the Milli-Q® HX 7000 system meets or exceeds water quality levels described by the following organizations:

Organization	Water Quality/Grade
European Pharmacopoeia	Purified water
U.S. Pharmacopeia	Purified water
Japanese Pharmacopoeia	Purified water
Chinese Pharmacopoeia	Purified water
ISO 3696	Grade 2 water
ASTM® D1193	Type II water
JIS K 0557	A3 water
Chinese National Standard GB/T 6682	Level 2 water

*The table below gives minimum specifications for different water types**

Contaminant	Parameter (unit)	Type 3	Type 2	Type 1
Ions	Resistivity (MΩ·cm)	> 0.05	> 1.0	>18.0
Organics	TOC (ppb)	< 200	< 50	< 10
Pyrogens	EU/mL	NA	NA	< 0.03
Particulates	Particulates >0.2 µm (units/ml)	NA	NA	< 1
Colloids	Silica (ppb)	< 1000	< 100	< 10
Bacteria	Bacteria (cfu/mL)	< 1000	< 100	< 1

**These values are provided only as guidelines, as some specific laboratory applications may require a quality superior to the quality indicated by the norms.*

At the heart of your total pure water solution

A total pure water solution consists of not just one system, but rather several integrated parts. At the heart of the solution, the Milli-Q® HX 7000 system serves as the nerve center for the entire water purification chain, and provides total control of all functions, operating parameters and standard accessory components.

The Milli-Q® HX 7000 water purification system

- Functions as the makeup water system
- Using a combination of technologies, purifies tap feed water to produce sufficient volumes of the required water quality for use in all the laboratories.

An SDS 500 unit for storage, protection and distribution of pure water

- The SDS unit stores purified water from the Milli-Q® HX 7000 makeup system, helping to meet daily needs and cover peak periods of high demand from the labs. It is important to ensure that the Milli-Q® HX 7000 water production rate and the tanks are sized to meet the labs' daily and peak usage demands for purified water.
- The SDS unit also distributes and maintains top-quality pure water through the piping network at the correct flow rates and pressures. In-line UV lamps and integrated final 0.22 µm sterile filtration devices maintain/improve the quality of distributed water.

See page 9 for more information on the SDS 500 unit.

Point-of-use delivery and polishing

Throughout the piping distribution network, pure water can be used for a variety of purposes:

- Feed to instruments, clinical analyzers, dishwashers or autoclaves
- General glassware rinsing
- Buffer and media preparation
- Feed to high-throughput ultrapure water purification systems (Super-Q® systems) or point-of-use "polishing" systems, such as Milli-Q® IQ 7000 systems.

Inside the Milli-Q® HX 7000

Ultrafiltration (UF) Pretreatment Unit

State-of-the-art complementary purification technologies

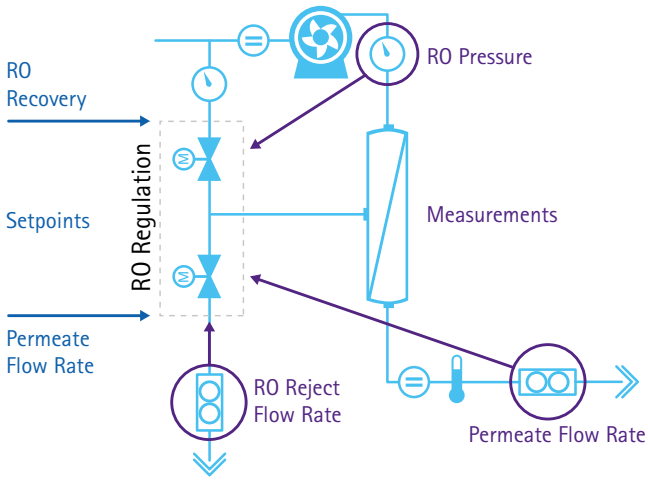
Progard® pretreatment packs combine several purification media to protect the Milli-Q® HX 7000 system by removing:

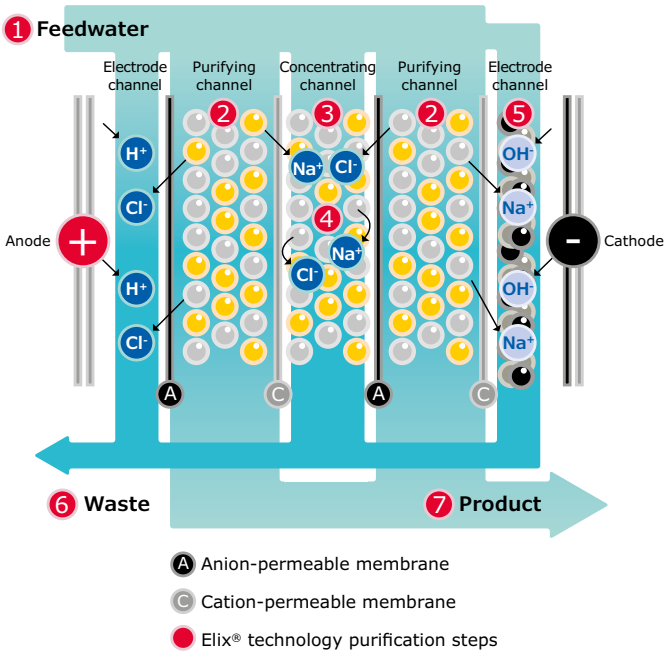
- Particles (0.5 µm filter)
- Free chlorine and colloids (activated carbon filter) from tap water

Other pretreatment such as backwashable carbon filters and ultrafiltration can be added depending on your feed water quality.

Advanced RO and E.R.A.®* technologies decrease water consumption

- Advanced reverse osmosis removes 95-99% of ions and 99% of all dissolved organics (MW > 200 Dalton), microorganisms and particles.
- Evolutive Reject Adjustment (E.R.A.®) technology uses an integrated calculator to optimize RO water recovery (between 45 and 75%) depending on feed water quality.
  - Production flow and water recovery rates remain constant regardless of feed water temperature.
  - No manual adjustment of valves is needed to maintain flow rate or protect RO cartridge lifetime.
  - Users save water, time and money.
  - Maintenance time is reduced, as well as the risk of human error.
  - System uptime is optimized and reliability increased.





The Elix® EDI module ensures constant quality pure water, productivity and profitability

- Remaining ions are removed in the Elix® electrodeionization (EDI) module, where ion-exchange resins are continuously regenerated by an electric field. No hazardous chemical regeneration or costly resin replacement is needed.
- There are no DI cartridges to change, which reduces maintenance time and ensures low and predictable running costs.
- Regardless of feed water quality (conductivity, CO_2 levels), or RO cartridge performance, both running costs and product water quality remain the same — there are no unexpected costs for users.
- Elix® patented technology does not require softeners; labs save space and maintenance time.

Elix® module: our unique EDI technology is based on anion- and cation-permeable membranes and high-quality ion-exchange resin. Water produced by the Elix® module enters the tank with resistivity greater than 5 MΩ·cm @ 25 °C (typically up to 15 MΩ·cm @ 25 °C).

UV lamp and final filtration for full bacterial control

Optimum-quality Elix® water is well-suited for bacteria-sensitive applications.

UV lamp sanitization occurs at three stages, reducing the water's bacterial count by a log of 4†:

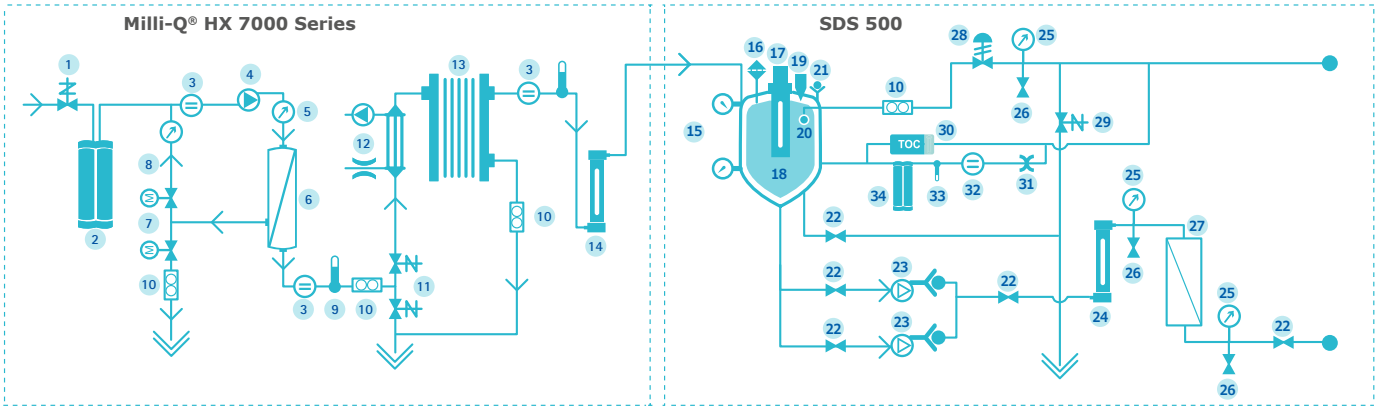
- During water production
- During storage in the SDS 500 reservoir (*see page 9 for more information*)
- During recirculation in the distribution loop
- Before water is delivered, a pharmaceutical grade Opticap® filter (0.22 µm) provides final filtration

** Patent pending*

† E.g., In a well-designed and maintained distribution loop, a bacterial count of 10,000 cfu/mL is reduced to 1 cfu/mL, irrespective of the system's nominal flow rate.

Milli-Q® HX 7000 series

Water Purification Systems



1. Inlet valve
2. Progard® pretreatment pack
3. Conductivity cell
4. RO pump
5. Pressure sensor
6. RO cartridge
7. Twin motorized valve - RO recirculation
8. RO circulation loop
9. Temperature sensor
10. Flow sensor
11. 3-way automatic rinsing valve
12. Degassing unit (option)
13. Elix® module
14. UV lamp (254 nm)
15. Tank level pressure sensors
16. Vent filter
17. Automatic Sanitization Module (ASM) (UV 254 nm; option instead of spray ball)
18. Tank
19. Overflow
20. Spray ball
21. Check valve
22. Valve
23. Distribution pump(s)
24. UV lamp (254 nm; option)
25. Pressure gauge
26. Sampling valve
27. Opticap® filter (0.22 µm)
28. Back pressure regulator
29. Automatic loop rinsing valve
30. TOC monitor (option)
31. 4 LPM flow controller (option with Resistivity booster)
32. Resistivity cell (option)
33. Temperature cell (option)
34. Resistivity booster (option)

Full online monitoring & control of the installation and water quality parameters

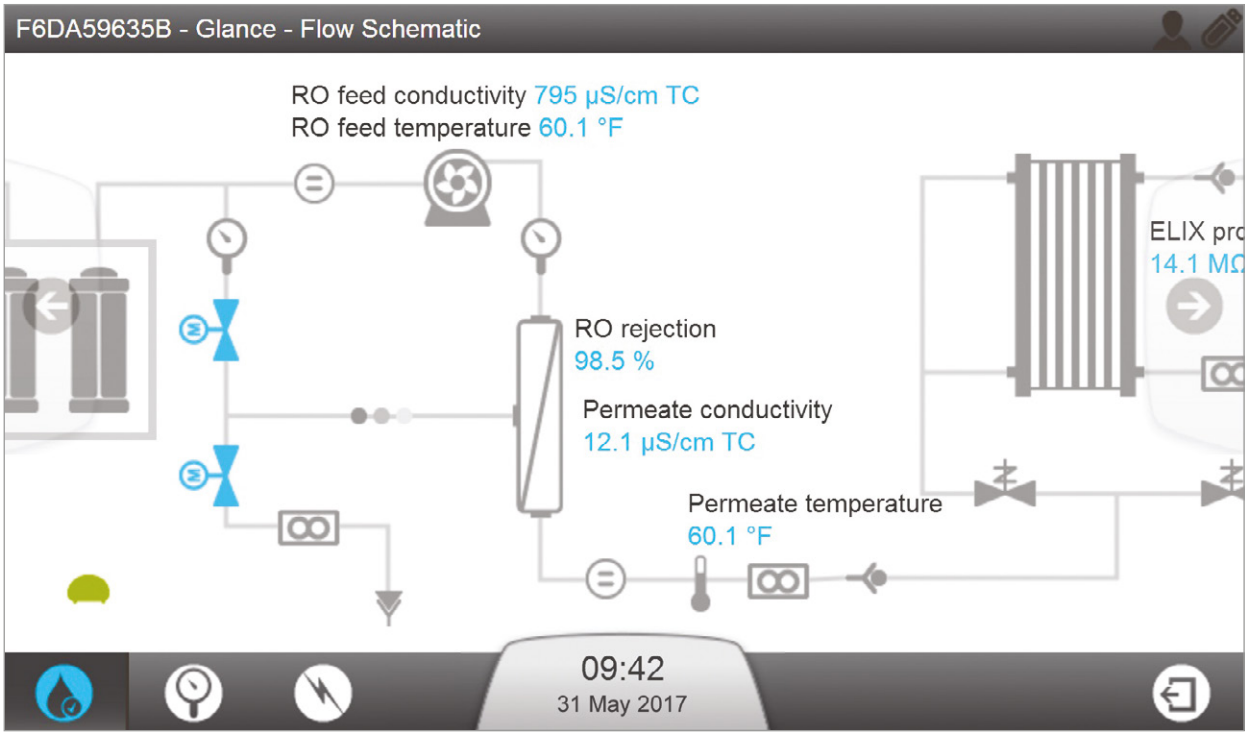
Milli-Q® HX 7000 systems drive and control all additional equipment needed in an installation, including:

- Single and duplex distribution pumps and their alarms
- Bactericidal UV lamp in the distribution loop*
- Automatic Sanitization Module (ASM)* on the SDS 500 unit
- Storage tank levels and alarms
- Vent and final filter consumable management
- TOC and resistivity monitoring in the distribution loop, depending on the configuration chosen
- Water detector to stop water production and distribution in case of a leak*

Following each purification step, the Milli-Q® HX 7000 system checks relevant parameters:

- Feed pressure, feed water quality
- RO pressure, RO water quality, RO membrane efficiency (% ion rejection)
- Elix® water: resistivity and temperature
- Water quality in the loop return (resistivity and/or TOC*) can also be checked by the system

** Available as an option*



Compact SDS 500 storage unit protects water purity for efficient distribution

The SDS 500, with its state-of-the-art design, is the perfect companion for the Milli-Q® HX 7000 series of systems:

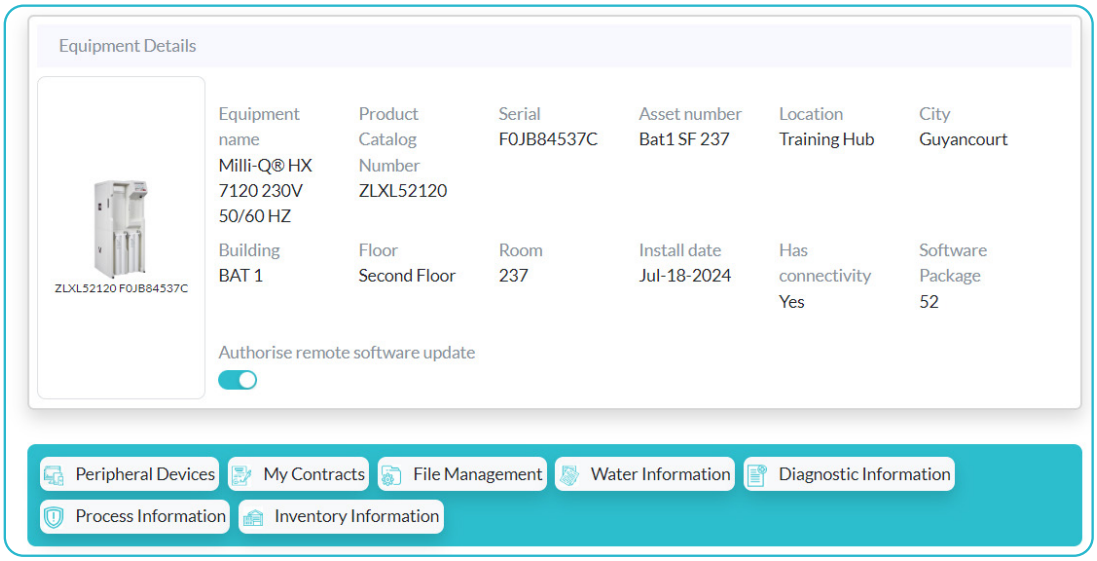
- Distribution flow up to 60 L/minute; single or duplex pump options
- Polyethylene tank with IR polypropylene piping
- Hermetically sealed lid with no overflow to drain prevents bacterial contamination
- Optional Automatic Sanitization Module (ASM) with integrated 254 nm UV lamp prevents bacterial and biofilm growth on tank inner surfaces
- Optional spray ball cleans the tank cover with high pressure
- Constant velocity in the loop limits biofilm buildup
- Cylindrical shape and conical bottom for full drainage
- Vent filter protects against airborne contaminants
- Differential pressure sensor for accurate level measurement
- Sanitary connection; sanitary sampling port located anywhere in the loop

Connectivity Assures Productivity

MyMilli-Q™ Remote Care monitoring and service capability supports your lab's maximum productivity

What can MyMilli-Q™ Remote Care help you to achieve?

- **Assure productivity 24/7**. Access real-time system information, water quality data and more from anywhere at any time for 24/7 confidence in your lab's performance.
- **Save time.** In the event you need support, your interaction with Milli-Q® Services is streamlined as MyMilli-Q™ Remote Care provides our service organization a secure and direct view of your system information. Our service teams can remotely diagnose and potentially repair your system, avoiding the need to wait for a service visit.
- **Maximize uptime.** Receive notification of alerts and alarms allowing you to promptly and remotely manage your system, either independently or with our remote assistance.
- **Easier data traceability & accreditation.** Audit preparation and lab accreditation have never been so effortless as data are automatically saved and can be easily accessed, searched and retrieved. Choose to download a standard Quality Report, or to create your own tailored reports.



The MyMilli-Q™ Remote Care customer home page can be accessed online 24/7.

NEW!

Proactive alarm monitoring and Remote Health Check services assure operational efficiency

Get ultimate risk prevention with our new, unique digital services. These proactive services prevent issues before they impact lab operations, minimizing the risk of a costly disruption.

Speak with your local lab water representative to find out if these services are available in your country.

MyMilli-Q™ Remote Care facilitates data traceability & eases accreditation

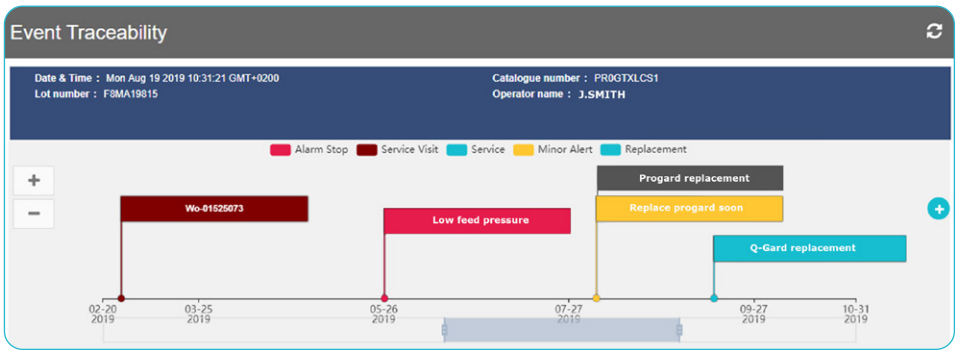
Water is a reagent whose quality must be documented for laboratories seeking accreditation (or reaccreditation) to the ISO 15189:2012 standard.

To facilitate compliance with worldwide regulatory organization guidelines, Milli-Q® HX 7000 systems allow for full monitoring capabilities as well as automatic e-record archiving both:

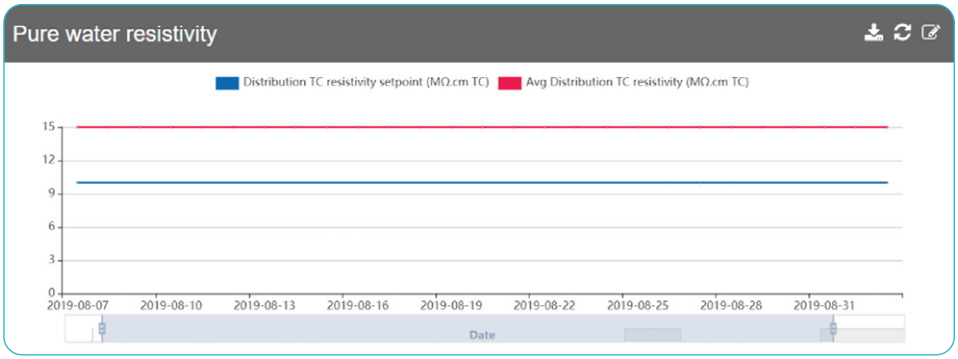
- **Directly in the system** — data are retrievable by USB key or via your lab's intranet connection.
- **In the cloud** when MyMilli-Q™ Remote Care is activated.

E-record archiving supports traceability of all water-related daily operations, measurements and events. It saves time and is less expensive to manage versus paper documentation, as it removes the need for daily checks of the water purification system, hand-recording of parameters in a lab book, and physically archiving years of paper data.

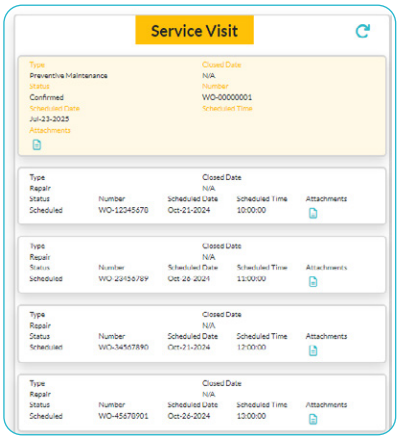
With the user-friendly MyMilli-Q™ web interface and MyMilli-Q™ Remote Care service feature, data management is greatly simplified. Your system and water data are readily accessible and rapidly searchable, graphable and reportable — from anywhere at any time.



An interactive Event Traceability tool lets you view events by type and over the timeline you specify. View past events (alarms, alerts, consumable replacements, service visits, custom events) and plan for future system maintenance. Click on any event and its details are displayed in the blue banner above the timeline. In this example, a Progard® cartridge was replaced by J.SMITH on Aug 19, 2019.



Water quality parameters (resistivity, temperature, TOC) are graphed over the timeline of your choice and can be easily downloaded.



The system automatically stores a fully traceable—and easily retrievable—record of service history. In addition to archiving data, MyMilli-Q™ online tool lets you streamline contract management. You'll be able to schedule maintenance visits, manage consumable deliveries and renew your service contracts, all online.

Learn more at
SigmaAldrich.com/mymilli-q

Intuitive use with a superior communications interface

A large, colored touchscreen gives users all details needed for daily system operations at a glance. Easily navigate to view data, including:

- Production status
- Storage levels
- Dispensing status
- System settings
- Consumables status
- Preventative alarms and alerts

Information is displayed in a user-friendly, easy-to-read dashboard format.

System status zone

Large display shows water qualities and distribution process

Clear, visible status of all consumables

Notification zone for alerts and alarms

If a consumable change is required, the system will display a yellow, blinking alert 15 days in advance. Just touch the yellow alert to open a new screen…

Now you can view and control your system's interface remotely via MyMilli-Q™ Remote Care. **See pages 10-11 for more information.**

… where a wizard will explain the maintenance procedure in easy, step-by-step instructions.

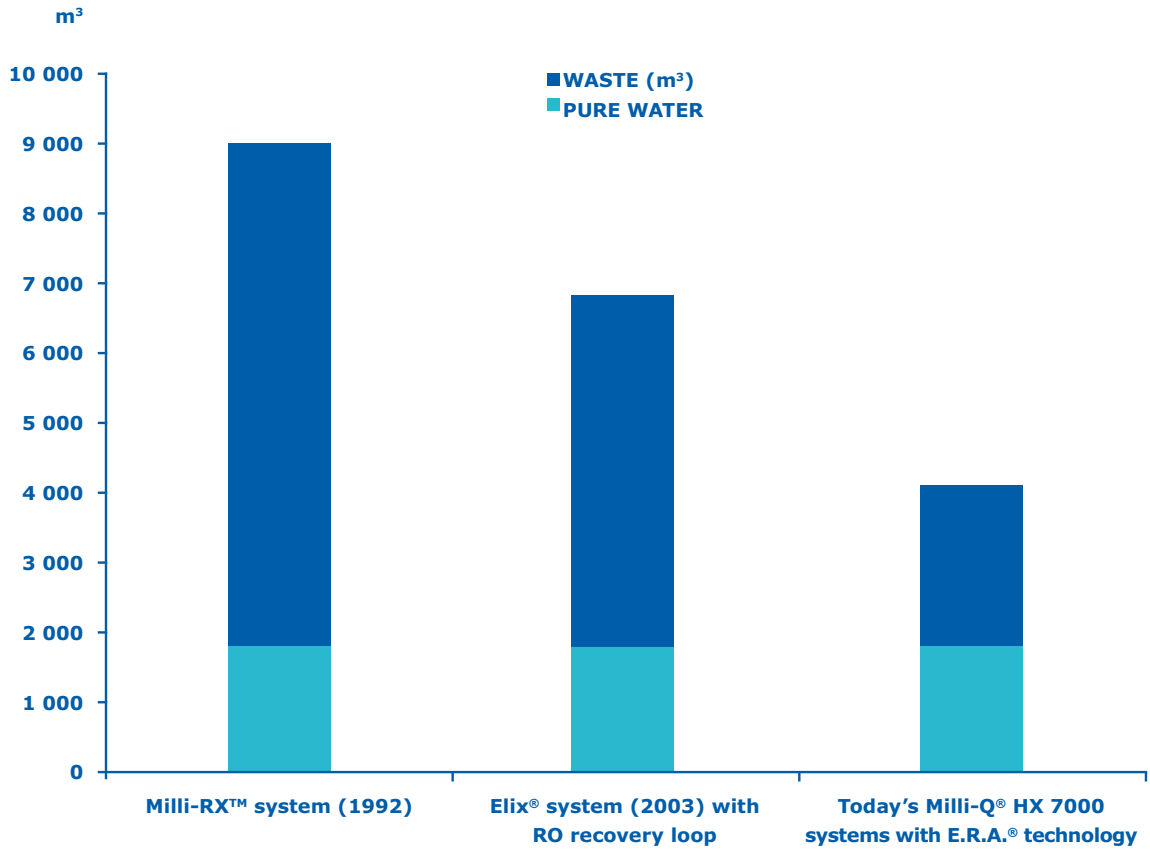
A more sustainable solution, for today & tomorrow

We are committed to environmental sustainability. Ongoing developments in Lab Water product stewardship underscore our determination not only to increase our own product sustainability, but also to help our customers move toward sustainable solutions themselves.

Our efforts include using optimized purification technologies that help decrease energy and water consumption, and reducing packaging and documentation.

Milli-Q® HX 7000 systems incorporate Elix® technology, which provides constant-quality water without the need for resin cylinders, softeners, or conditioning systems. In addition, integrated E.R.A.® technology automatically optimizes water recovery based on feed water quality to decrease tap water usage — *up to 50% compared to other high-throughput RO systems* — reducing costs and helping protect valuable resources. The RO recovery loop also optimizes water consumption (between 45 to 75%) by recycling part of the water that has been rejected to the drain, thus further reducing water waste and also extending RO cartridge and Progard® pack lifetimes.

In a busy laboratory environment with a variety of equipment — often installed in a relatively small space — Milli-Q® HX 7000 systems also help reduce noise pollution with an operating noise level of less than 50 decibels (at a distance of one meter).



Over the last 30 years, we have dramatically reduced water purification system water consumption, enabling laboratories to save up to several thousand dollars per year on tap water expenses. The graph shows water consumption and the split between purification system water and reject water for three of our water purification systems over a seven-year period (production of 1000 L/day of pure water, 312 days per year).

Best-in-class Milli-Q® Services, now supported by MyMilli-Q™ Remote Care

Receive unequaled quality of support for complete peace of mind throughout your system's lifetime

At each stage of your project (conception, design and installation) to everyday use, we offer comprehensive, high quality support services that can be customized to meet your needs.

- **Before installation**, a certified field service engineer analyzes your feed water quality.
- **During installation,** feed water parameters are programmed into system memory to optimize water recovery and maximize system performance.
- **Throughout system lifetime,** apply the **Milli-Q® Service Plan** that meets your lab's needs, from a single annual Preventive Maintenance Visit with replacement of aging parts, to full system coverage, including proactive alarm monitoring.
- **Choose from a range of additional options,** including qualification, calibration and verification services, scheduled consumables shipments, and sanitization.

Our certified field service engineers can provide:

- Operator training
- Technical and maintenance support
- Preventive maintenance
- Customized services, such as conductivity and temperature meter verification
- Assistance to help you successfully perform the Installation Qualification (IQ), Operational Qualification (OQ) and maintenance program within a cGMP and/or GLP environment

Final User / Laborator

Architect, Engineer, Design & Facility Needs

Definition of your needs	Solution Design	Design Qualification	Installation
Configuration options based on the user's environment and specific needs (central or individual water purification solution with additional point-of-use systems)	Selection of the optimal systems Support for loop design based on our 50 plus years of experience	Design Qualification of the complete solution	System installation Support for the loop sub-contractor

** Subject to subscription*

Specific to pharmacopeia and accredited labs

Log into the MyMilli-Q™ platform to streamline the care of your Milli-Q® system fleet:

- Track service history & reports
- Plan maintenance visits
- Manage consumable deliveries
- Renew service contracts
- Remotely monitor, control & service your system (*via the MyMilli-Q™ Remote Care feature, see pages 10-11 for more information*)

Our stringent Quality system, product development process and manufacturing procedures ensure that our products are robust and reliable. Milli-Q® HX 7000 systems are manufactured in an ISO 9001- and ISO 14001-registered site. Additionally, to ensure efficiency and safe operation, systems are IEC-certified (CE, cULus, FCC, EAC).

Furthermore, to reduce environmental impact, all Milli-Q® HX 7000 systems follow European Restriction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE) directives.

SigmaAldrich.com/milli-qservices

y Needs

Full Solution Qualification

- Installation Q
- Operational Q
- Maintenance Procedure
- Calibration
- Verification

Training

- Users
- Maintenance Department
- Quality controller & assurance expert

Lifetime Services

- Milli-Q® Service Plans*
- MyMilli-Q™ platform access*
- MyMilli-Q™ Remote Care*
- Technical support hotline
- Maintenance Protocol
- Traceability

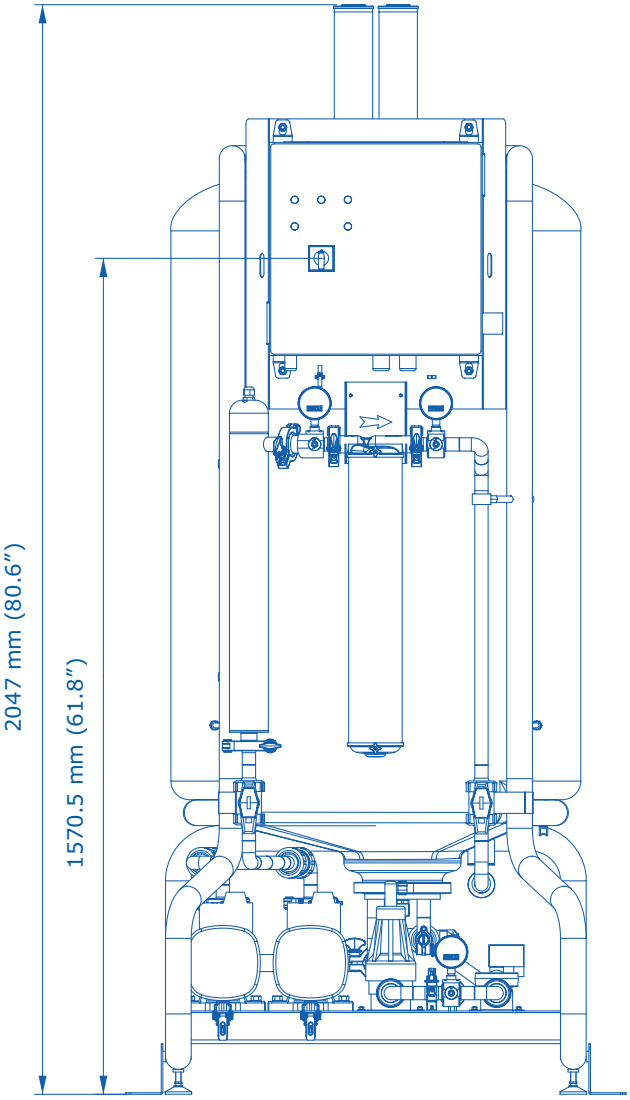
Technical Appendix

Milli-Q® HX 7000 series system paired with the SDS 500

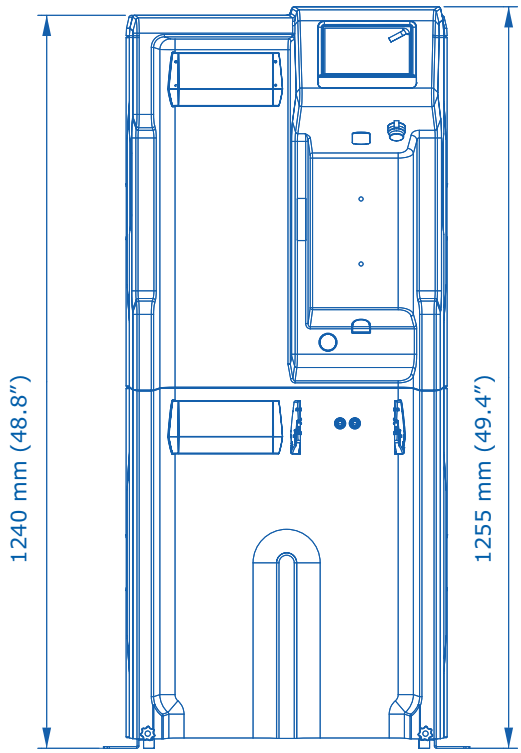
Milli-Q® HX 7000 series

Type 2 Water Purification Systems

System Dimensions



SDS 500



**Milli-Q®
HX 7000 Series**

Milli-Q® HX 7000 series

Type 2 Water Purification Systems

Feed Water Requirements

Parameter	Value or Range
Pressure	2 – 6 bar
Flow rate	> 10 L/min at 2 bar
Feed water type	Potable water
Temperature	5 – 35 °C
Conductivity	10 – 2000 µS/cm at 25 °C
pH	4 – 10
Hardness (as $CaCO_3$)	< 300 ppm
Silica concentration	< 30 ppm
Carbon dioxide concentration (CO_2)	< 30 ppm
Langelier Saturation Index (LSI)	< 0.3
Fouling Index (FI_5) or Silt Density Index (SDI)	≤ 7(*)
Total Organic Carbon (TOC)	< 1 ppm
Free chlorine for Milli-Q® HX 7040 LC, 7080 LC, 7120, 7150 systems	< 1.5 ppm
Free chlorine for Milli-Q® HX 7040 HC, 7080 HC systems	< 1.5 ppm – 3 ppm

* < 12 when the optional UF pretreatment is installed.

Milli-Q® HX 7000 Series Performance

Parameter	Value or Range
Resistivity	> 5 MΩ.cm @ 25 °C (10-15 MΩ.cm @ 25 °C typically)
Conductivity	< 0.2 µS/cm @ 25 °C
Total Organic Carbon (TOC)	Typically < 30 ppb
Microorganisms	< 10 cfu/mL
Dissolved silica	< 3 ppb (rejection >99.9%)

Electrical Specifications

System Type	Voltage / Frequency	Power Consumption (VA)
Milli-Q® HX 7040/7080	220-240 VAC, 50/60 Hz	750
	120 VAC, 60 Hz	775
	100 VAC, 50/60 Hz	
Milli-Q® HX 7120/7150	220-240 VAC, 50/60 Hz	870
	120 VAC, 60 Hz	900
	100 VAC, 50/60 Hz	

The source of electrical power must be earth grounded.

General Specifications

Noise level	< 50 dB at 1 meter
Communication protocol	TCP/IP/CGI, embedded web server and HTML 5 embedded website*
Communication ports	Ethernet, USB 2.0
Languages	English, French, Spanish, Portuguese, Italian, German, Russian, Chinese, Japanese

* No additional software needed for remote control.

	Milli-Q® HX 7040	Milli-Q® HX 7080	Milli-Q® HX 7120	Milli-Q® HX 7150
Dimensions (H x W x D) footprint	1 240 x 543 x 542 mm (48.8 x 21.4 x 21.3 in)			
Shipping weight	97 kg (213 lb)	105 kg (231 lb)	113 kg (249 lb)	124 kg (273 lb)
Dry weight	78 kg (172 lb)	86 kg (190 lb)	94 kg (208 lb)	105 kg (232 lb)
Operating weight	228 kg (502 lb)	236 kg (520 lb)	244 kg (537 lb)	255 kg (562 lb)
Make-up flow rate*	40 L/h (10.6 gal/h)	80 L/h (21.1 gal/h)	120 L/h (31.7 gal/h)	150 L/h (39.6 gal/h)

* Nominal flow rates ± 10% between 10 and 35 °C. Additional deviation of -3% per °C from 10 °C to 5 °C.

SDS 500

Storage, Protection & Distribution System

SDS 500 Specifications

Tank volume	500 L (132 Gallons)
Usable water volume	400 L (105 Gallons), *an additional volume of 100 L is reserved for low and high level security*
Weight (filled with water)	660 kg (1455 lb)
Weight (empty)	Up to 140 kg (308 lb)
Dimensions H x W x D	2047 x 790 x 1082 mm (80.6 x 31.1 x 42.6 in)
Floor space required	0.85 m^2 (9.15 ft^2)
Noise level	E.g. 45.5 dB @ 1m (BPR = 1.5b / flow rate 20 L/min) E.g. 54.7 dB @ 1m (BPR = 4b / flow rate 40 L/min)

Pump Performances (Variable speed pumps)

Voltage / Frequency	Pump Performances
220-240 V, 50/60 Hz	Nominal: 16-40 LPM @ 1-4 bar
110-127 V, 50/60 Hz	4-9 GPM @ 14-58 psi
200 V, 50/60 Hz	Nominal: 16-40 LPM @ 1-3.5 bar*
100 V, 50/60 Hz	4-9 GPM @ 14-50 psi*

* At 90V, performance is reduced to 16-40 LPM @ 1-3 bar (4-9 GPM @ 14-43 psi)

Electrical Specifications

Voltage / Frequency	Maximum Power Consumption	Maximum Intensity
220-240 V, 50/60 Hz	2100 VA	< 9A
100-127 V, 50/60 Hz	2000 VA (120 V)	< 16A
	2000 VA (100 V)	< 20A

Materials

Tank	Medium density polyethylene (MDPE)
Frame	Epoxy painted passivated steel
Valves and fittings	Polypropylene, polyamides, EPDM
Piping	Beta Polypropylene Homopolymer (Beta PP-H)
Pump wetted parts	316 SST and tungsten carbide / carbon and EPDM seals
BPR wetted parts	Polypropylene, EPDM, PTFE
Pressure gauge	Inox 316 L
Other mechanical parts	Polyethylene terephthalate (PETP)

Plumbing Connections

Pure water inlet to tank	3/4" Sanitary TC
Tank drain	1 1/2" Sanitary TC
Tank loop inlet/return	1 1/2" Sanitary TC

Milli-Q®

Lab Water Solutions

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

SigmaAldrich.com/labwater

For more information on Milli-Q® HX 7000 systems, please visit:

SigmaAldrich.com/milliqhighflow

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