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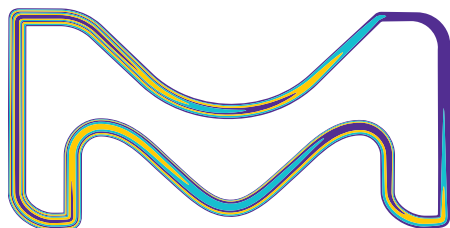
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MERCK

RiOs-DI® Water Purification Systems

Easy-maintenance, superior quality pure water



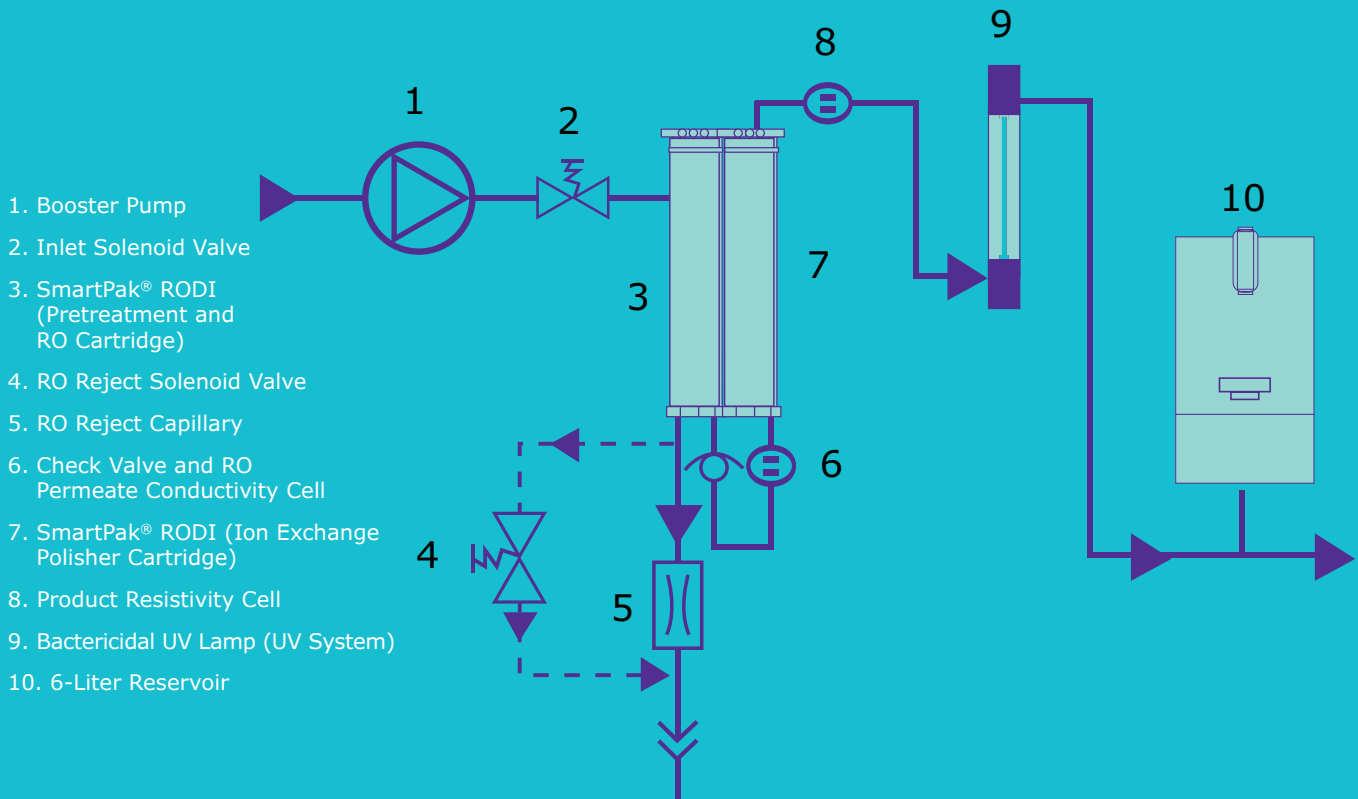
The life science business
of Merck operates as
MilliporeSigma in the
U.S. and Canada.

Milli-Q®
Lab Water Solutions

Easy-maintenance, superior quality pure water

Your water purification needs	Our solution: The RiOs-DI® water purification systems
High quality pure water without the drawbacks of service DI or distillation equipment	Easy-to-use RiOs-DI® systems produce Type II pure water whose quality is superior to that of service DI or stills. Plus, with their combination of reverse osmosis (RO) technology and deionization resins , RiOs-DI® systems let you avoid the issues associated with service DI or distillation (maintenance, storage, cleaning, etc.).
Pure water for general laboratory use	Water from RiOs-Di® systems is suitable for a variety of uses , including buffer and reagent preparation; microbiological culture media preparation; and glassware rinsing.
Compact design for the most efficient use of your lab space	A small footprint makes it easy to install the RiOs-DI® system wherever you want to in your lab.
Flow rate and storage volume to meet your low-volume pure water needs	RiOs-DI® systems have a pure water flow rate of > 2.4 liters per hour and an integrated 6 L reservoir for pure water storage.
High quality water for applications requiring low bacterial levels	An optional built-in bactericidal UV lamp is available to help ensure optimal water quality for bacteria-sensitive applications.
Easily accessible information on system operation	The user-friendly display provides system status at a glance; the concise Quick Reference Guide is a handy guide for daily operation.
Simple self-maintenance	The single SmartPak® RODI cartridge enables easy and rapid replacement.

RiOs-DI® systems water purification pathway



Get superior water quality and peace of mind!

RiOs-DI® systems: a better alternative to stills and service DI

With their combination of reverse osmosis (RO) technology and deionization (DI) resins, the compact, user-friendly RiOs-DI® systems produce high quality pure water — easily and economically. The combined power of RO and DI resins in RiOs-DI® systems provides pure water with high resistivity ($> 10 \text{ M}\Omega\text{-cm}$) and low TOC ($< 30 \text{ ppb}$) whose quality surpasses that of service DI or distilled water. In addition, RiOs-DI® systems also let you avoid the many drawbacks of these other purification methods: high lab space demands to store resin bottles or accommodate distillation equipment; heavy maintenance; lack of water quality monitoring; and in the case of distillation, high energy and water use, as well as the need for strong chemicals for cleaning purposes.

Pure water for general lab applications

Type II pure water from RiOs-DI® systems is suitable for basic laboratory needs, such as buffer and reagent preparation; micro-biology culture media preparation; general washing and glassware rinsing.

Bacteria-sensitive applications

RiOs-DI® systems are also available with a built-in 254 nm UV lamp to reduce the level of bacteria for critical applications.



Benefit from compact, user-friendly design

Easy installation

RiOs-DI® systems are designed for easy installation: just connect the system to a tap water supply, plug it in, and insert the SmartPak® RODI cartridge — your system is ready to use!

Optimized lab space

With their integrated 6-liter reservoirs, RiOs-DI® systems can easily be installed wherever you need pure water in your lab, on the benchtop, or on the wall.



We offer more than water

Just the information you need

The intuitive color graphic display shows key system parameters at a glance, enabling easy water quality, reservoir level, and maintenance warning monitoring. Additional information on system operation and maintenance is provided by the Quick Reference Guide and User Manual stored on the water production unit.



User-friendly maintenance

At the heart of the RiOs-DI® system is the all-in-one SmartPak® RODI cartridge that combines the different purification technologies. A quick single pack change is all the regular maintenance needed! Following an automatic flush cycle, the system will set itself up to produce optimal water quality. You will receive an automatic notification on the RiOs-DI® system's screen when it's time to change the cartridge, which is easily done in a couple of minutes.



Milli-Q® Services Plans

To optimize the performance and lifetime of your water purification system, we offer a complete portfolio of service plans, ranging from a single annual checkup to full system coverage. For more information, please check with your Merck applications specialist or visit our website:

[MerckMillipore.com/Milli-QServices](https://www.merckmillipore.com/Milli-QServices)

Specifications

Pure (Type II) Product Water Quality	RiOs-DI® Systems
Resistivity	> 10 MΩ·cm @ 25°C
Production flow rate	3 L/h @ 15 °C ± 15%
Organics & Particulates	Typical rejection > 99%
TOC (Total Organic Carbon)	< 30 ppb

System Information

Dimensions (H x W x D)	500 x 290 x 330 mm (19.7 x 11.4 x 13 in.)
Net weight (RiOs-DI® system w/o bactericidal UV lamp)	7.3 kg (16.1 lb)
Net weight (RiOs-DI® system with bactericidal UV lamp)	7.8 kg (17.2 lb)
Operating weight (RiOs-DI® system w/o bactericidal UV lamp)	16.7 kg (36.7 lb)
Operating weight (RiOs-DI® system with bactericidal UV lamp)	17.3 kg (38 lb)
Built-in reservoir volume	6 L (1.6 gal)
Electrical feed voltage	100–250 V ± 10%
Electrical feed frequency	50–60 Hz ± 10%
Tap (feed) water connection	½" Gaz M
Tap (feed) water pressure	0.5 to 6 bar

Milli-Q®

Lab Water Solutions

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MerckMillipore.com/labwater

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