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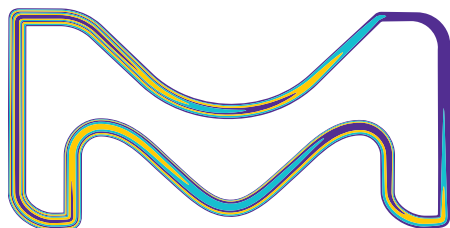
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MERCK

# RiOs™ 3, 5, 8 Water Purification Systems

Reliable and affordable pure water solutions



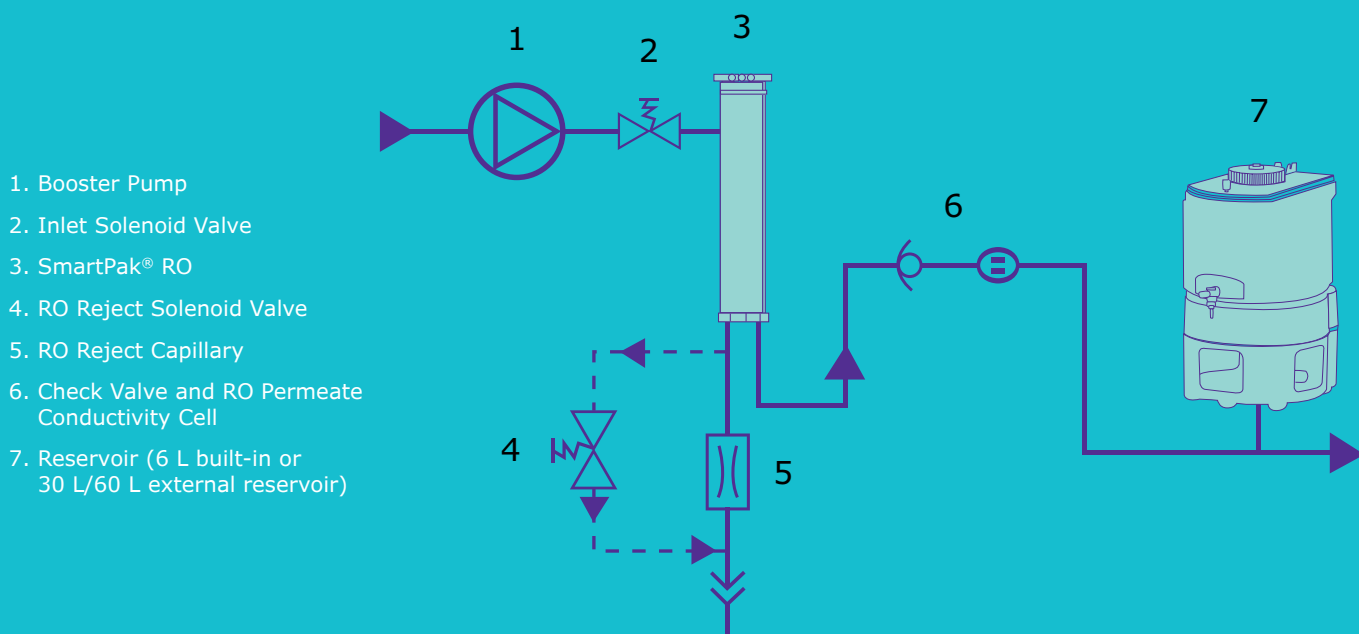
The life science business  
of Merck operates as  
MilliporeSigma in the  
U.S. and Canada.

**Milli-Q®**  
Lab Water Solutions

# Reliable and affordable pure water solutions

Your water purification needs	Our solution: The RiOs™ water purification systems
Reliable, affordable laboratory grade water	Our RiOs™ systems produce <b>reliable, affordable Type III pure water</b> for a variety of laboratory applications, thanks to <b>high performance reverse osmosis (RO) membranes</b> .
Pure water for general laboratory use	RiOs™ system pure water is suitable for a <b>variety of needs</b> , including manual cleaning and rinsing, and buffer and reagent preparation.
Pure water to feed ultrapure water purification systems or other lab equipment	Water from RiOs™ systems can also be used as <b>feed water for ultrapure water systems</b> (e.g., Synergy® systems), as well as feed to <b>humidifiers, autoclaves, and glassware washers</b> .
Flow rates adapted to your daily usage	Systems in the RiOs™ range provide <b>3, 5, or 8 liters of pure water per hour</b> .
A choice of adequate storage volumes	RiOs™ systems come either with an <b>integrated 6-liter reservoir</b> (RiOs™ 3) or an <b>external reservoir (30 L or 60 L)</b> .
Compact design for the most efficient use of your lab space	A <b>small footprint</b> makes it easy to install the RiOs™ water purification units wherever you want in your lab.
Easily accessible information on system operation	The <b>user-friendly display</b> provides system status at a glance; the concise <b>Quick Reference Guide</b> is a handy guide for daily operation.
Simple self-maintenance	The single <b>SmartPak® RO cartridge</b> (with integrated RO membrane) enables easy and rapid replacement.

## RiOs™ systems water purification pathway



# Choose the pure water solution that's right for you

## Reliable, affordable pure water

Designed to produce reliable, affordable pure water, RiOs™ systems are a perfect solution for Type III laboratory-grade water needs. Select the RiOs™ system that best matches your daily water volume needs: the range includes models that produce 3, 5 or 8 liters of pure water per hour. Pure water is stored conveniently either in an integrated 6-liter reservoir for the RiOs™ 3 system, or in external 30 L or 60 L reservoirs for the RiOs™ 5 and RiOs™ 8 models.



## Feed water for ultrapure water systems and other lab equipment

RiOs™ systems provide an ideal source of pure water for use as feed to ultrapure water purification systems, such as our Synergy® systems. A mere 80-centimeter (32-inch) space suffices to hold the two systems, and you'll have access to both Type III and Type I (18.2 MΩ·cm) water on demand! When connected to an external reservoir, RiOs™ systems can also supply pure water to feed other laboratory equipment, including humidifiers, autoclaves, and glassware washers.



## Pure water for general, non-critical lab applications

Type III water from RiOs™ systems is suitable for all your manual cleaning and rinsing needs, as well as for buffer and reagent preparation; and for use in water baths.

## Benefit from compact, user-friendly design

### Optimized lab space

With their small footprint and robust design, RiOs™ water purification units can be installed wherever you need pure water in your lab, on the benchtop, or on the wall.\*

\* RiOs™ 5 and RiOs™ 8 systems are designed for use with a 30 L or 60 L external reservoir.



# Merck offers more than water

## Easy installation

RiOs™ systems are designed for easy installation: just connect the system to a tap water supply, plug it in, and insert the SmartPak® RO cartridge. If your configuration includes a 30- or 60-liter reservoir, follow the simple setup procedures, and your system will be ready to use! Just open the tank outlet valve to dispense pure water — the integrated 6 L reservoir or external 30/60 L reservoirs store your RO water in optimal condition ready for use when you need it.

## Just the information you need

The intuitive color graphic display shows key system parameters at a glance, enabling easy water quality 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.

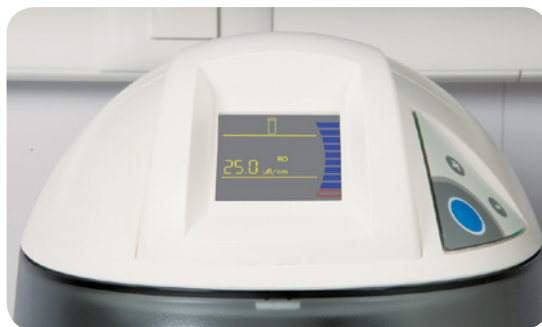
## User-friendly maintenance

The single SmartPak® purification cartridge with integrated RO membrane protection simplifies maintenance to a quick pack change. You will receive an automatic notification on the RiOs™ system 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](http://MerckMillipore.com/Milli-QServices)



## Specifications

Pure (Type III) Product Water Quality	RiOs™ Systems
Ionic content	> 96% rejected typically
Organics & Particulates	> 99% rejected typically
Production flow rate	3, 5, 8 L/h @ 15 °C ± 15%

## System Information

<b>Dimensions (H x W x D) mm</b>	500 x 290 x 330 mm (19.7 x 11.4 x 13 in)
<b>Net weight (RiOs™ 3 system)</b>	7 kg (15.4 lb)
<b>Net weight (RiOs™ 5, 8 systems)</b>	6 kg (13.2 lb)
<b>Operating weight (RiOs™ 3 system)</b>	14.9 kg (32.8 lb)
<b>Operating weight (RiOs™ 5, 8 systems)</b>	8.9 kg (19.6 lb)
<b>Built-in reservoir volume</b>	6 L (1.6 gal)
<b>Electrical feed voltage</b>	100–250 V ± 10%
<b>Electrical feed frequency</b>	50–60 Hz ± 10%
<b>Tap (feed) water connection</b>	½" Gaz M
<b>Tap (feed) water pressure</b>	0.5 to 6 bar

# Milli-Q®

## Lab Water Solutions

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