RiOs™ 3, 5, 8
Water Purification Systems

Reliable and affordable pure water solutions

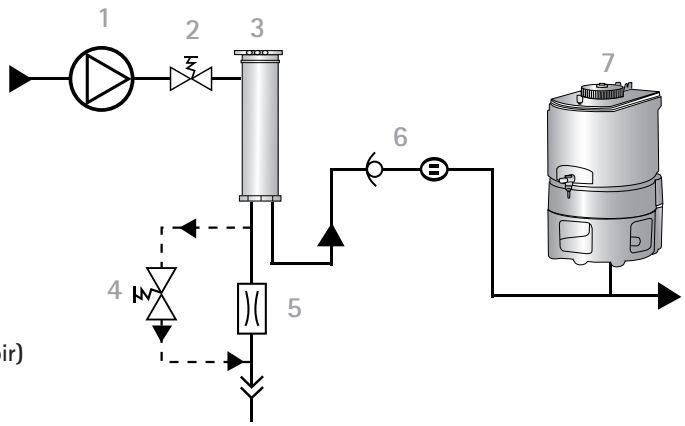
Merck Millipore is a division of MERCK

Reliable and affordable pure water solutions

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

RiOs™ systems water purification pathway

1. Booster Pump
2. Inlet Solenoid Valve
3. SmartPak® RO
4. RO Reject Solenoid Valve
5. RO Reject Capillary
6. Check Valve and RO Permeate Conductivity Cell
7. **Reservoir (6 l built-in or 30 l/60 l external reservoir)**



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 Merck Millipore's Milli-Q® or 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

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.

Optimized lab space

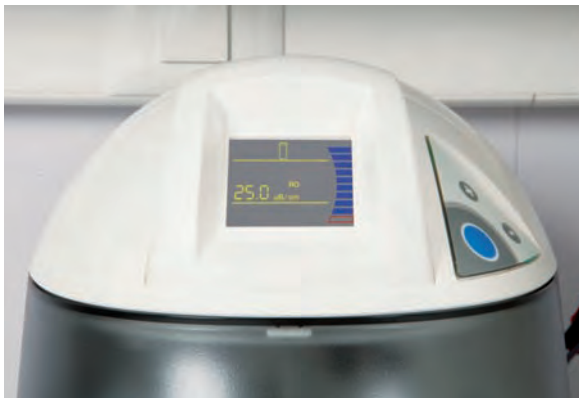
With their small footprint and robust design, RiOs™ water purification units can be installed wherever you need pure water in your lab, on the benchtop, or on the wall.*

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

Merck Millipore offers more than water

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'll receive an automatic notification from the RiOs™ system when it's time to change the cartridge, which is easily done in a couple of minutes.

Watercare Pact Service portfolio

To optimize the performance and lifetime of your water purification system, Merck Millipore offers a complete portfolio of Service plans ranging from a single annual checkup to a full system cover. For more information, please check with your Merck Millipore applications specialist or visit our website: www.millipore.com/labwater

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	
Dimensions (H x W x D)	50 x 29 x 33 cm (19.7 x 11.4 x 13 in)
Net weight (RiOs™ 3 system)	7 kg (15.4 lb)
Net weight (RiOs™ 5, 8 systems)	6 kg (13.2 lb)
Operating weight (RiOs™ 3 system)	14.9 kg (32.8 lb)
Operating weight (RiOs™ 5, 8 systems)	8.9 kg (19.6 lb)
Built-in reservoir volume	6 l
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


stuart
45mL
40
35
30
25
20
15
500 ml

For more information, please visit our website:

www.millipore.com/rios358

Lit. No. PB1553EN00