

iSpring RO100

iSpring RO100 Under Sink 5-Stage Reverse Osmosis Drinking Water Filtration System

User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your iSpring RO100 Under Sink 5-Stage Reverse Osmosis Drinking Water Filtration System. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your system. The iSpring RO100 is designed to provide high-quality drinking water by removing up to 99% of over 1,000 contaminants, including PFAS, lead, chlorine, fluoride, arsenic, asbestos, calcium, and sodium.

2. SAFETY INFORMATION

Adhere to the following safety guidelines during installation and operation:

- Always turn off the main water supply before performing any installation or maintenance procedures.
- Ensure all connections are secure and leak-free to prevent water damage.
- Do not use this system with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Keep the system away from direct sunlight and extreme temperatures.
- Use only genuine iSpring replacement filters and parts to maintain system performance and warranty.

3. PRODUCT OVERVIEW

The iSpring RO100 is a 5-stage reverse osmosis system featuring top-quality US-made filters and a Dupont RO membrane. It boasts a 100 GPD (Gallons Per Day) capacity and an efficient 1:1 pure to waste water ratio.

System Components

- Filter Housings (3 pre-filter housings, 1 RO membrane housing, 1 post-carbon housing)
- Filter Cartridges (Sediment, Granular Activated Carbon, Carbon Block, RO Membrane, Post Carbon)
- Water Storage Tank
- RO Faucet (Brushed Nickel)
- Tubing and Quick-Fitting Connectors

- Mounting Bracket
- Filter Housing Wrench
- Feed Water Adapter
- Drain Saddle



Figure 3.1: The iSpring RO100 5-Stage Reverse Osmosis Water Filtration System, including the main filter unit, storage tank, and brushed nickel faucet.

5-STAGE Filtration Reduces 1000+ Contaminants

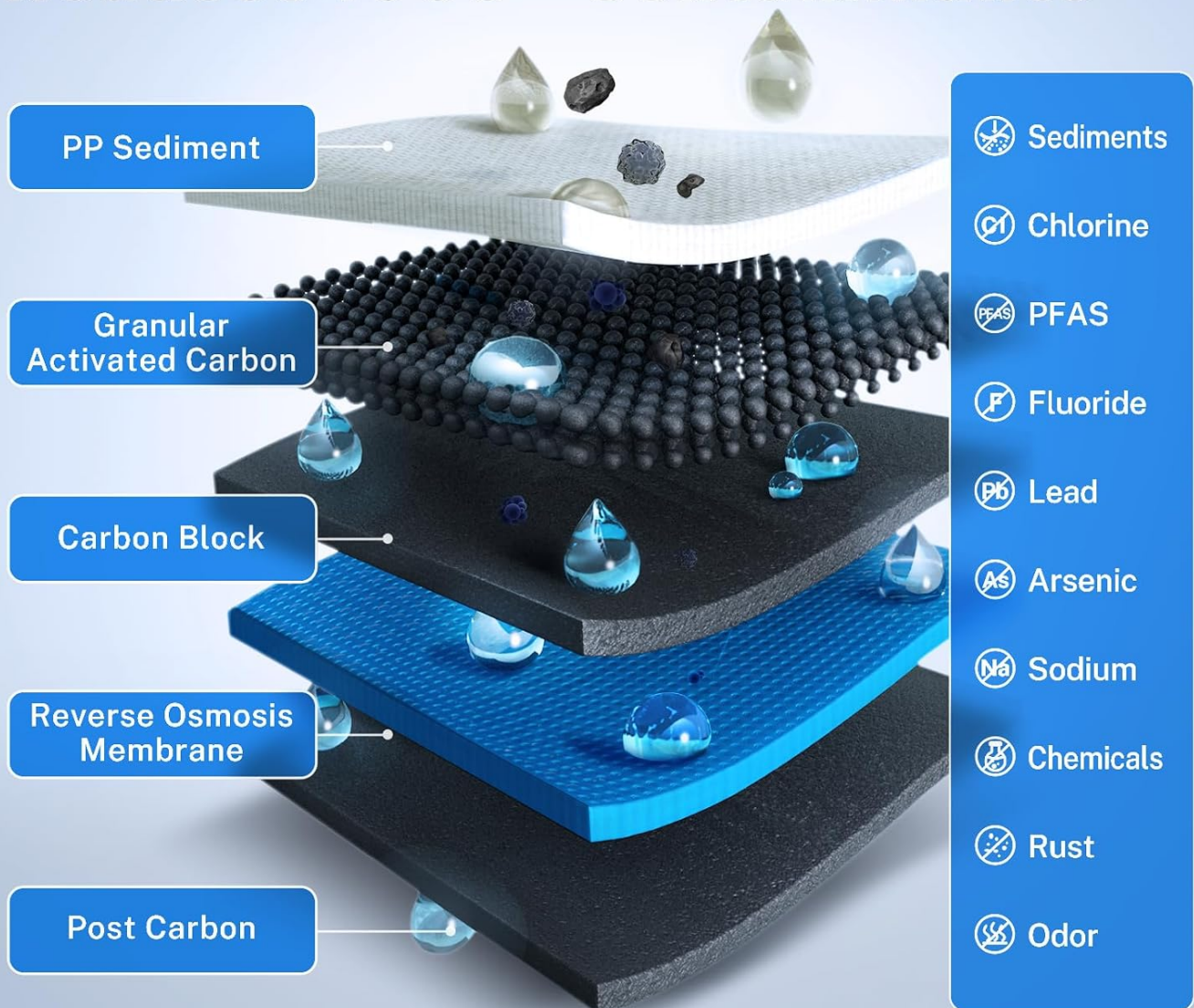


Figure 3.2: A visual representation of the 5-stage filtration process, showing how sediments, chlorine, PFAS, fluoride, lead, arsenic, sodium, chemicals, rust, and odor are removed.

4. SETUP AND INSTALLATION

The iSpring RO100 system is designed for straightforward do-it-yourself installation, typically completed within a couple of hours. Comprehensive installation videos and a detailed manual are provided to guide you through the process.

4.1 Pre-Installation Checklist

- Verify all components listed in Section 3 are present and undamaged.
- Ensure you have the necessary tools: drill, adjustable wrench, utility knife, and a bucket.
- Confirm adequate space under your sink for the filter unit (14.5" L x 5.25" W x 17" H) and the storage tank (11" diameter x 11" H).
- Locate the cold water supply line and the drain pipe under the sink.

4.2 Installation Steps (General Overview)

For detailed, step-by-step instructions, refer to the included installation manual and videos. The following is a general sequence of tasks:

1. **Turn Off Water Supply:** Locate and turn off the cold water supply valve under your sink.
2. **Install Feed Water Adapter:** Connect the feed water adapter to your cold water line.
3. **Mount Faucet:** Drill a hole in your sink or countertop (if not pre-drilled) and install the RO faucet.
4. **Mount Filter Assembly:** Secure the main filter unit to the cabinet wall under your sink using the provided mounting bracket.
5. **Connect Tubing:** Connect the various colored tubing lines to the appropriate ports on the filter unit, storage tank, faucet, and drain saddle. For leak-free connections, push tubing 1/2 inch deep into quick-fitting connectors and secure them with the locking clips.
6. **Install Drain Saddle:** Attach the drain saddle to the drain pipe under your sink.
7. **Install Filters:** Unwrap and insert the filter cartridges into their respective housings. Ensure the clear first-stage housing is securely tightened.
8. **System Flush:** Perform the initial system flush as described in Section 5.

Advanced RO Water System



Figure 4.1: The iSpring RO100 system installed under a kitchen sink, illustrating its compact dimensions and placement.

5. OPERATING INSTRUCTIONS

Once installed and flushed, your iSpring RO100 system operates automatically, providing purified water on demand. The system does not require electricity for its filtration process.

5.1 Initial System Flush

Before consuming water from the system, it is essential to perform an initial flush to remove air, carbon fines, and sanitize the system:

1. After completing installation, slowly turn on the cold water supply.
2. Open the RO faucet and allow the water to run until it stops, completely draining the storage tank. This may take several minutes.
3. Close the RO faucet and allow the storage tank to refill completely. This typically takes 35-45 minutes.
4. Repeat the draining and refilling process at least two more times. This ensures all air is purged from the system and filters

are properly conditioned.

5.2 Daily Use

Once the initial flush is complete, your system is ready for daily use. Simply open the RO faucet to dispense clean, filtered water. The 100 GPD RO membrane ensures a fast flow rate, providing ample water for drinking and cooking.

The illustration features a blue-toned background with a dynamic splash of water. In the center, a circular RO membrane is shown with water flowing through its center. Overlaid on this are several text elements: a large title at the top, a micronage specification in a blue box, and a comparison table at the bottom.

High-Quality US-Made RO Membrane

0.0001-micron

iSpring	X2	Standard Filters
100 GPD Output		50 GPD Output

Figure 5.1: Illustration of the high-quality 0.0001-micron US-made RO membrane, capable of producing 100 GPD of purified water.

6. MAINTENANCE

Regular maintenance, primarily filter replacement, is essential to ensure your iSpring RO100 system continues to provide optimal performance and high-quality drinking water.

6.1 Filter Replacement Schedule

The following table outlines the recommended replacement intervals for each filter stage. Actual replacement frequency may vary based on your water quality and usage.

Filter Stage	Filter Type	Recommended Replacement
Stage 1	PP Sediment Filter	Up to 12 months
Stage 2	GAC Filter	Up to 12 months
Stage 3	CTO Carbon Block Filter	Up to 12 months
Stage 4	RO Membrane (MC1US)	Up to 3 years
Stage 5	Post Carbon Filter (FT15US)	Up to 12 months

Note: The clear first-stage housing allows for visual inspection of the sediment filter, helping you determine if an earlier replacement is needed due to heavy sediment accumulation.

Filter Replacement Schedule



FP15US
Up to **12 months**



FG15US
Up to **12 months**



FC15US
Up to **12 months**



MC1US
Up to **3 years**



FT15US
Up to **12 months**



Note: Filter replacement schedule may vary depending on the quality of your source water.

Figure 6.1: Visual guide for the iSpring RO100 filter replacement schedule, indicating the lifespan of each filter type.

6.2 General Care

- Periodically check all connections for any signs of leaks. Address any leaks immediately by tightening connections or replacing faulty parts.
- Keep the area around the system clean and free from clutter to ensure proper ventilation and easy access for maintenance.
- Avoid placing heavy objects on top of the system or storage tank.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your iSpring RO100 system and provides general solutions.

7.1 Low Water Flow from Faucet

- **Check Tank Pressure:** Ensure the storage tank is not empty. If empty, allow time for it to refill.
- **Tank Valve:** Verify the valve on top of the storage tank is fully open.
- **Water Supply:** Confirm the cold water supply to the system is fully open.
- **Clogged Filters:** Filters, especially the sediment and carbon filters, can become clogged over time. Replace filters according to the recommended schedule or if water flow significantly decreases. The RO membrane can also cause low flow if it's at the end of its lifespan.

7.2 Unusual Taste or Odor

- **Initial Flush:** Ensure the system has been properly flushed after installation or filter replacement (refer to Section 5.1).
- **Post Carbon Filter:** The post carbon filter is responsible for final polishing of the water. If taste or odor issues persist, this filter may need replacement.
- **RO Membrane:** A compromised RO membrane can allow contaminants to pass through. If other filters are new and issues persist, consider replacing the RO membrane.

7.3 Leaks

- **Identify Source:** Immediately turn off the water supply to the system. Locate the source of the leak.
- **Tubing Connections:** For quick-fitting connectors, ensure the tubing is fully inserted and the locking clip is securely in place. Re-cut the end of the tubing if it appears damaged or uneven.
- **Filter Housings:** Ensure filter housings are hand-tightened securely. Check that O-rings are properly seated and not pinched or damaged.
- **Faucet Base:** Check the connections at the base of the RO faucet.

8. SPECIFICATIONS

- **Model Number:** RO100
- **Product Dimensions:** 14.5 x 5.25 x 17 inches (Filter Unit); 11 x 11 inches (Storage Tank)
- **Item Weight:** 12.79 Kilograms (28.2 Pounds)
- **Filtration Stages:** 5-Stage
- **RO Membrane Capacity:** 100 GPD (Gallons Per Day)
- **Pure to Waste Ratio:** 1:1
- **Material:** Acrylonitrile Butadiene Styrene (ABS), Plastic, Polyethylene (PE), Polypropylene (PP), Polystyrene
- **Manufacturer:** iSpring Water Systems

9. WARRANTY AND SUPPORT

Your iSpring RO100 Under Sink 5-Stage Reverse Osmosis Drinking Water Filtration System comes with a **1-year manufacturer's warranty**. iSpring is committed to customer satisfaction and provides a **lifetime support line** from their team based in Atlanta, GA, USA.

For any questions regarding installation, operation, replacement filters, troubleshooting, or other inquiries, please do not hesitate to contact our expert customer service team. Contact information can be found on the iSpring website or through your purchase documentation.



Figure 9.1: The iSpring US-based customer service team, available to assist with product inquiries and support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question