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iSpring MRO800

iSpring MRO800 Reverse Osmosis Membrane Replacement Manual

For use with iSpring RO800G Tankless Reverse Osmosis Water Filtration Systems

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your iSpring MRO800 Reverse Osmosis (RO) Membrane. The MRO800 membrane is designed for high-efficiency water purification and is compatible with the iSpring RO800G Tankless Reverse Osmosis Water Filtration System. Please read these instructions carefully before proceeding with installation or maintenance.

PRODUCT OVERVIEW

The iSpring MRO800 RO Membrane is a critical component of your water filtration system, responsible for removing a wide range of impurities from your drinking water. It features a high flow rate and an efficient pure water to wastewater ratio.



RO Membrane | MRO800



800 GPD



High Efficiency



Up to 99%
Rejection Rate



Quality Material



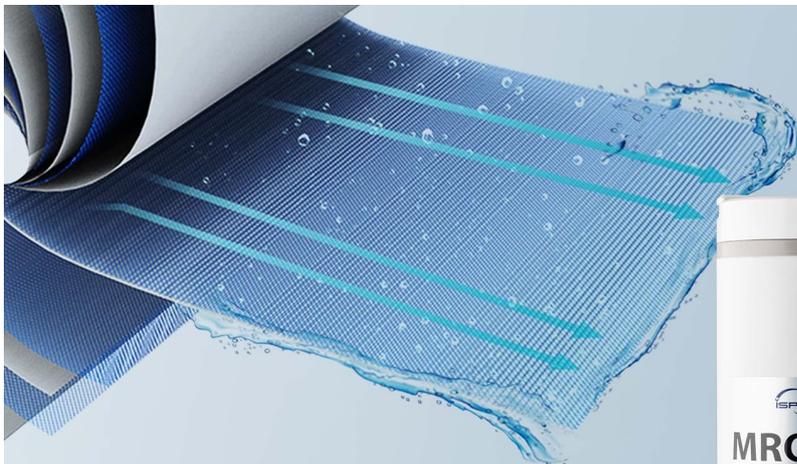
Lifetime Tech and
CS Support



Individually Wrapped

2-nd Stage for iSpring RO800G

Image: iSpring MRO800 RO Membrane highlighting its features such as 800 GPD capacity, high efficiency, up to 99% rejection rate, quality material, lifetime technical support, and individual wrapping.



REMOVES UP TO

99.9%

IMPURITIES

0.0001 micron RO membrane

iSpring RO membranes consist of a three-layer composite, featuring a polyester support web that provides structure, a microporous polysulfone inner layer where a majority of selective pores are found, and a thick polyamide barrier layer that holds up to mechanical wear and high pressure.



Image: Detailed view of the iSpring MRO800 RO membrane, illustrating its ability to remove up to 99.9% of impurities, including heavy metals and organic matters, with a filtration size of 0.0001 micron.

SETUP AND INSTALLATION

The iSpring MRO800 RO Membrane is designed for easy, tool-free replacement. It is specifically compatible with the iSpring RO800G Tankless Reverse Osmosis Water Filtration System.

Compatibility

This RO membrane is exclusively compatible with the iSpring RO800G Tankless Reverse Osmosis Water Filtration System. Ensure your system is the RO800G model before attempting installation.



Image: The iSpring MRO800 RO membrane displayed alongside the iSpring RO800G Tankless Reverse Osmosis System, illustrating their compatibility.

Replacement Procedure

- 1. Prepare the System:** No need to cut off the main water supply to the house. The RO800G system is designed for filter replacement without shutting off the water.
- 2. Locate the RO Membrane:** The MRO800 membrane is typically the second stage filter in the RO800G system. Refer to your RO800G system manual for exact filter placement.
- 3. Twist and Unlock:** Gently twist the old MRO800 filter counter-clockwise to unlock it from the system. Pull it downwards to remove. A small amount of water may drip out; have a towel ready.
- 4. Insert New Membrane:** Remove the new MRO800 membrane from its packaging. Align the new filter with the housing and push it upwards.
- 5. Twist and Lock:** Twist the new filter clockwise until it locks securely into place. You should feel a click or firm stop.

6. **Flush the System:** After replacing the membrane, it is crucial to flush the system. Turn on the filtered water faucet and allow water to run for at least 15-30 minutes to flush out any air and carbon fines. Refer to your RO800G system manual for specific flushing instructions.

OPERATING PRINCIPLES

The iSpring MRO800 Reverse Osmosis Membrane utilizes a semi-permeable membrane with pores as small as 0.0001 micron to effectively remove dissolved solids, heavy metals, organic matters, and other impurities from water. This process separates pure water from concentrated wastewater, which is then sent to the drain.

Key Performance Characteristics:

- **High Flow Rate:** Provides up to 800 gallons per day (GPD) of purified water.
- **Efficient Water Ratio:** Achieves a pure water to wastewater ratio of up to 2.5:1, significantly more efficient than traditional RO systems.
- **High Rejection Rate:** Rejects up to 99.99% of contaminants, including lead, fluoride, arsenic, chlorine, and various organic compounds.
- **Operating Pressure:** Designed to operate effectively with feed water pressures ranging from 15 psi to 70 psi.



Image: An illustration detailing the two filtration stages of the iSpring RO800G system. The first stage, an FPPC Composite Filter, removes sediment, dirt, rust, and chlorine. The second stage, the MRO800 Advanced RO Membrane, rejects impurities down to 0.0001 micron, including heavy metals and organic matters.



Image: A visual comparison demonstrating the water efficiency of the iSpring RO800G system (2.5:1 pure to waste ratio) against traditional RO systems (1:3 pure to waste ratio), highlighting significant water savings.

MAINTENANCE

Regular maintenance, specifically timely replacement of the RO membrane, is crucial for ensuring the continued performance and water quality of your iSpring RO800G system.

Filter Lifetime

The iSpring MRO800 RO Membrane typically lasts between **24 to 36 months**. The actual lifespan can vary based on daily water usage and the quality of your incoming feed water. Harder water or water with higher levels of contaminants may reduce the membrane's lifespan.

When to Replace

- **Reduced Flow Rate:** If you notice a significant decrease in the flow of purified water from your faucet.
- **Changes in Water Taste or Odor:** If the purified water develops an undesirable taste or odor.
- **System Indicator:** The iSpring RO800G system may feature an indicator light or display that signals when the RO membrane needs replacement. Consult your RO800G system manual for details on these indicators.
- **Scheduled Replacement:** Adhere to the recommended replacement schedule of 24-36 months, even if no noticeable issues are present, to ensure optimal performance.

Replacement Steps

Please refer to the [Setup and Installation](#) section above for detailed instructions on replacing the MRO800 RO Membrane.

TROUBLESHOOTING

If you encounter issues with your iSpring MRO800 RO Membrane or the RO800G system, consult the following common troubleshooting tips:

Problem	Possible Cause	Solution
Low purified water flow	Clogged RO membrane; Low feed water pressure; Air in the system	Replace RO membrane; Check feed water pressure (must be 15-70 psi); Flush the system to remove air.
Poor water taste or odor	Expired RO membrane; Expired pre-filters (FPPC)	Replace RO membrane; Replace pre-filters according to their schedule.
Water leaking from filter housing	Improperly seated filter; Damaged O-ring	Ensure the filter is twisted and locked securely; Contact iSpring support if leakage persists after re-seating.
System indicator light for RO membrane is on	Membrane needs replacement	Replace the MRO800 RO membrane. Reset the system indicator as per your RO800G manual.

For further assistance, please refer to your iSpring RO800G system's comprehensive manual or contact iSpring customer support.

SPECIFICATIONS

- **Model:** MRO800
- **Compatibility:** iSpring RO800G Tankless Reverse Osmosis Water Filtration System
- **Material:** Plastic
- **Product Dimensions:** 3.7" (D) x 3.7" (W) x 15" (H)
- **Item Weight:** Approximately 3.59 pounds (1.63 Kilograms)
- **Filtration Rating:** 0.0001 micron
- **Maximum Flow Rate:** Up to 800 Gallons Per Day (GPD)
- **Pure to Waste Water Ratio:** Up to 2.5:1
- **Contaminant Rejection:** Up to 99.99% of 88 contaminants, including heavy metals and organic matters
- **Recommended Replacement:** 24-36 months (depending on usage and water quality)
- **Included Components:** 1 x Replacement RO Membrane
- **UPC:** 662425511235

WARRANTY AND SUPPORT

For information regarding the product warranty, technical support, or customer service, please visit the official iSpring website or contact iSpring customer support directly. Contact details are typically provided in the main RO800G system manual or on the iSpring website.

- **Online Resources:** www.ispringfilter.com
- **Customer Service:** Refer to your product packaging or the iSpring website for current contact information.