Pentair GRO-75EN

Pentair GRO-75EN 1:1 Reverse Osmosis Membrane Filter User Manual

Model: GRO-75EN | Brand: Pentair

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Pentair GRO-75EN 1:1 Reverse Osmosis Membrane Filter. This high-efficiency encapsulated RO cartridge is designed to provide purified water by reducing various contaminants, featuring a 75 GPD (Gallons Per Day) flow rate and a 1:1 permeate-to-concentrate ratio for minimal wastewater.
Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

Safety Information

Observe all local plumbing and electrical codes. If you are unsure about any installation steps, consult a qualified professional.

- Always turn off the water supply before performing any installation or maintenance.
- Depressurize the system before opening any connections.
- Do not use tools to overtighten quick-connect fittings; hand-tightening is usually sufficient.
- Keep the product away from direct sunlight and extreme temperatures.

Setup and Installation

The Pentair GRO-75EN membrane is designed for straightforward installation with its encapsulated design and integrated components.

Pre-Installation Checks

- Ensure you have the correct replacement membrane (GRO-75EN).
- Verify that the existing RO system is compatible with encapsulated membranes.

- Gather necessary tools: towel, bucket, and possibly a filter wrench if replacing other pre-filters.

Installation Steps

1. **Turn off Water Supply:** Locate the cold water supply valve to your RO system and turn it off. Open the RO faucet to relieve pressure.
2. **Disconnect Old Membrane:** Carefully disconnect the tubing from the inlet, permeate, and drain ports of the old membrane. Note the color coding (typically blue for permeate, red for drain, clear/white for inlet).
3. **Remove Old Membrane:** Twist or unclip the old membrane from its mounting bracket, if applicable, and remove it.
4. **Prepare New Membrane:** Remove the new Pentair GRO-75EN membrane from its packaging. Ensure the O-rings are properly seated.
5. **Install New Membrane:** Insert the new membrane into the system, ensuring it is securely mounted.
6. **Connect Tubing:** Reconnect the tubing to the corresponding ports on the new membrane. The GRO-75EN features built-in quick-connect fittings, a permeate check valve, and drain line flow control for simplified connections. Refer to the labels on the membrane for correct port identification (Permeate, Drain, Inlet).



Image: Rear view of the Pentair GRO-75EN membrane, showing the clearly labeled inlet, permeate (blue), and drain (red) ports for easy connection.



Image: The Pentair GRO-75EN Reverse Osmosis Membrane, both packaged in its box and as a standalone unit, illustrating its compact design.

- **Restore Water Supply:** Slowly turn on the cold water supply valve. Check for leaks at all connections.
- **Flush System:** Proceed to the "Operating Instructions" section for initial system flushing.

Operating Instructions

Initial System Flush

After installing a new membrane, it is crucial to flush the system to remove any carbon fines or air from the new filter and membrane. This ensures optimal performance and taste.

1. With the water supply on, open the RO faucet and allow water to flow for at least 20-30 minutes. This flushes the new membrane.
2. Close the RO faucet and allow the storage tank to fill completely. This may take several hours depending on water pressure and system capacity.
3. Once the tank is full, open the RO faucet again and drain the tank completely. Discard this first tank of water.
4. Repeat the fill and drain cycle at least two more times. This ensures the membrane is properly conditioned and any manufacturing residues are flushed out.

Normal Operation

Your Pentair GRO-75EN membrane operates continuously to purify water as needed. The 1:1 permeate-to-concentrate ratio means that for every gallon of purified water produced, approximately one gallon of wastewater is sent to the drain, significantly reducing water waste compared to traditional RO membranes.

- The system will automatically produce purified water and store it in the RO storage tank.
- The permeate check valve prevents backflow, maintaining system integrity.
- The drain line flow control ensures efficient wastewater discharge.

Maintenance

Regular maintenance ensures the continued high performance of your Pentair GRO-75EN membrane.

Membrane Replacement

The Pentair GRO-75EN membrane typically requires replacement every **24 months**, or sooner depending on incoming water quality and daily usage. A noticeable decrease in water production, a decline in water quality, or an increase in TDS (Total Dissolved Solids) in the purified water are indicators that the membrane may need replacement.



Image: The Pentair GRO-75EN Reverse Osmosis Membrane, a cylindrical filter cartridge, ready for installation or replacement.

To replace the membrane, follow the "Setup and Installation" steps in reverse for removal, and then proceed with the installation of the new membrane, including the initial flushing procedure.
It is also recommended to replace pre-filters (sediment and carbon filters) according to their manufacturer's recommendations, typically every 6-12 months, to protect the RO membrane and extend its lifespan.

Troubleshooting

This section addresses common issues you might encounter with your RO system and the GRO-75EN membrane.

Problem	Possible Cause	Solution
Low water production	Clogged pre-filters Low incoming water pressure Clogged or old RO membrane Air in the system	Replace pre-filters. Check household water pressure. Replace the GRO-75EN membrane. Perform system flush.
Poor water taste or odor	Expired post-carbon filter Contaminated storage tank Old RO membrane	Replace post-carbon filter. Sanitize the storage tank. Replace the GRO-75EN membrane.
Constant drain flow	Faulty automatic shut-off valve (ASO) Low tank pressure Damaged flow restrictor (though integrated in GRO-75EN)	Check ASO valve; replace if necessary. Check and repressurize storage tank. Inspect GRO-75EN for damage; replace if necessary.
Leaks at connections	Loose fittings Damaged O-rings or tubing	Ensure quick-connect fittings are fully seated. Inspect and replace O-rings or tubing as needed.

If you encounter issues not listed here or require further assistance, please contact customer support.

Specifications

Model	GRO-75EN
Product Type	Reverse Osmosis Membrane Filter
Flow Rate	75 GPD (Gallons Per Day)
Permeate-to-Concentrate Ratio	1:1
Rejection Rate	96%
Material	Polypropylene (PP)
Product Dimensions	2.5"D x 15.14"W x 2.5"H
Item Weight	2 Pounds
External Testing Certification	NSF
Product Benefits	Reduces Arsenic, Fluoride, PFOS, Pesticides, TDS, Lead
UPC	850039967870
Typical Replacement Interval	24 Months (dependent on water quality/usage)

Warranty Information

The manufacturer provides a **2-year EU Spare Part Availability Duration** for this product. For specific warranty terms and conditions, please refer to the documentation provided with your complete RO system or contact Pentair customer support.

Support and Contact

For technical assistance, product inquiries, or troubleshooting support, please contact Pentair Customer Care:

Phone: 800-279-9404

Email: tech-support@pentair.com

Website: www.pentairaqua.com

When contacting support, please have your product model (GRO-75EN) and any relevant purchase information ready.

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