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Premier Water Systems RO575WE

Premier Water Reverse Osmosis Water Filtration System

Model: RO575WE

Brand: Premier Water Systems

Introduction and System Overview

The Premier Water Reverse Osmosis Water Filtration System provides ultra-fresh, clean, and great-tasting water directly from your home faucet. This 5-stage system is designed to remove up to 99% of contaminants, ensuring high-quality drinking water for various uses, from cooking to making beverages.

This system is certified to the highest industry standards by WQA Gold Seal, guaranteeing exceptional contaminant rejection rates and long-lasting performance. It is engineered and assembled in the USA.

Key Features:

- Removes up to 99.99% of Heavy Metals, Chlorine, Fluoride, Nitrates, Calcium, Arsenic, and more.
- All filters are specifically engineered to work together, producing the safest, best-tasting water.
- Automatically fills the water tank, providing high-quality drinking water on demand.
- Designed for easy do-it-yourself installation, typically completed in a few hours.
- Features a 75 Gallons Per Day (GPD) high Rejection Reverse Osmosis (RO) Membrane.

The 5 Stages of Filtration:

1. **1st Stage (Sediment Filter):** Filters dirt, dust, sand, and rust particles.
2. **2nd Stage (Granular Activated Carbon - GAC Filter):** Focuses on pollutants like chlorine, volatile organic chemicals, and odor-causing compounds.
3. **3rd Stage (Carbon Block Filter):** Further removes chlorine, organic chemicals, tastes, odors, VOCs, and other impurities. These early stages extend the life of the RO Membrane.
4. **4th Stage (RO Membrane):** The core of the system, removing up to 99% of total dissolved solids (TDS) and difficult impurities such as arsenic, lead, fluoride, chromium, radium, and bacteria.
5. **5th Stage (Post Activated Carbon Filter):** Provides a final polish to the water, removing any residual taste or odor right before it dispenses from the faucet.



Figure 1: Premier Water Reverse Osmosis Water Filtration System components including the main unit, storage tank, and faucet.

Setup and Installation

The Premier Water Reverse Osmosis system is designed for straightforward do-it-yourself installation under a standard kitchen sink. All necessary parts are included, along with clear, well-organized instructions.

General Installation Steps:

1. **Preparation:** Ensure you have adequate space under your sink for the main unit, storage tank, and tubing. Turn off the cold water supply.
2. **Faucet Installation:** Install the dedicated RO faucet on your sink.
3. **Drain Saddle Installation:** Attach the drain saddle to the drain pipe to allow wastewater from the RO system to be discharged.
4. **Water Supply Connection:** Connect the system to your cold water supply using the provided adapter.
5. **System Assembly:** Mount the main RO unit and place the storage tank.
6. **Tubing Connections:** Connect the various components (faucet, tank, drain, water supply) using the color-coded tubing. For leak-free installation, simply push tubing approximately ½ inch deep into the quick-fitting connectors until secure. No threading pipes are needed.
7. **Filter Installation:** Insert the pre-filters and RO membrane into their respective housings.
8. **System Flush:** Follow the initial flush procedure outlined in the detailed manual to prepare the system for use.

Refer to the detailed diagram below for a visual representation of the system's connections.

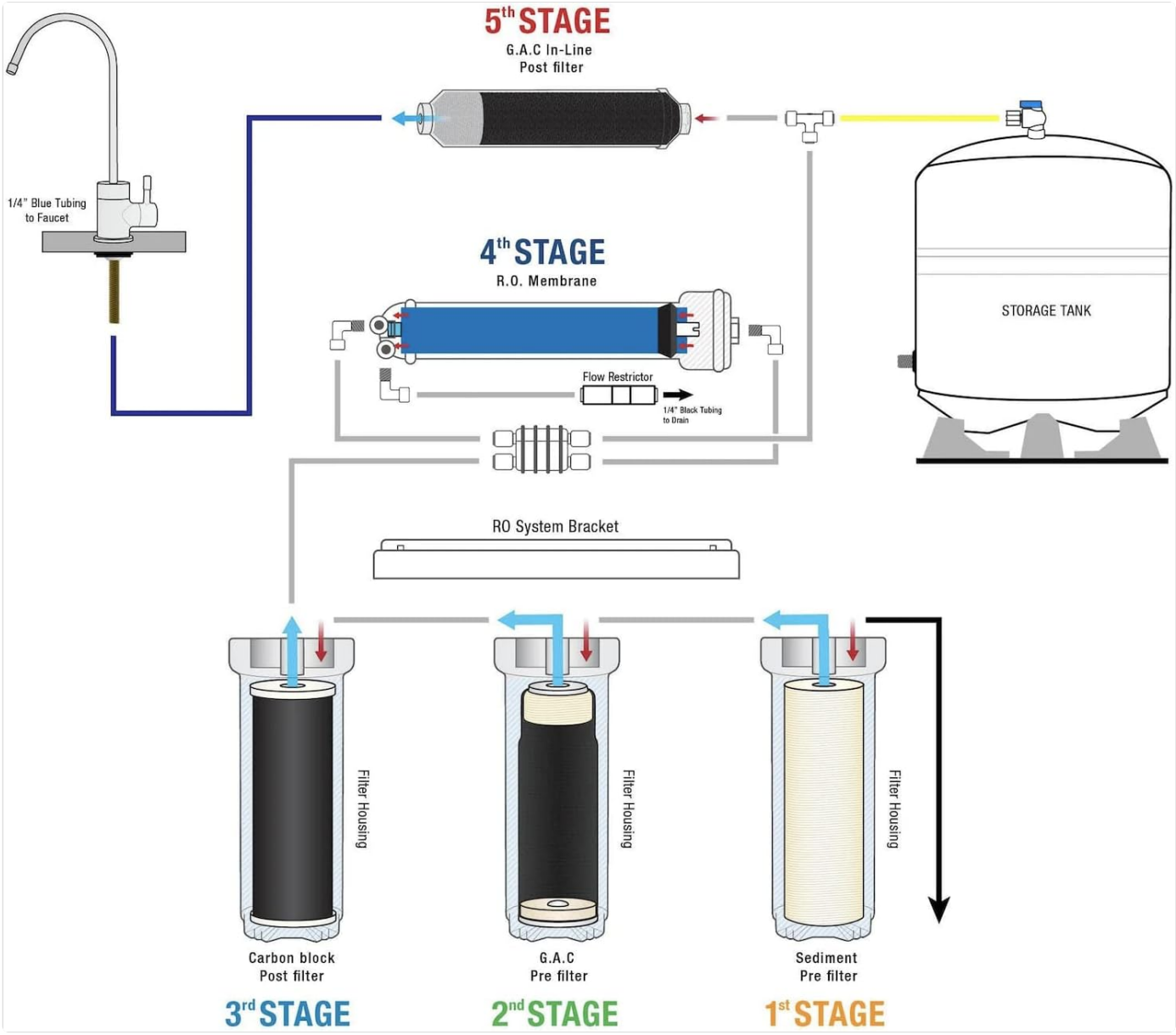


Figure 2: Detailed plumbing diagram illustrating the 5 stages and connections of the RO system.

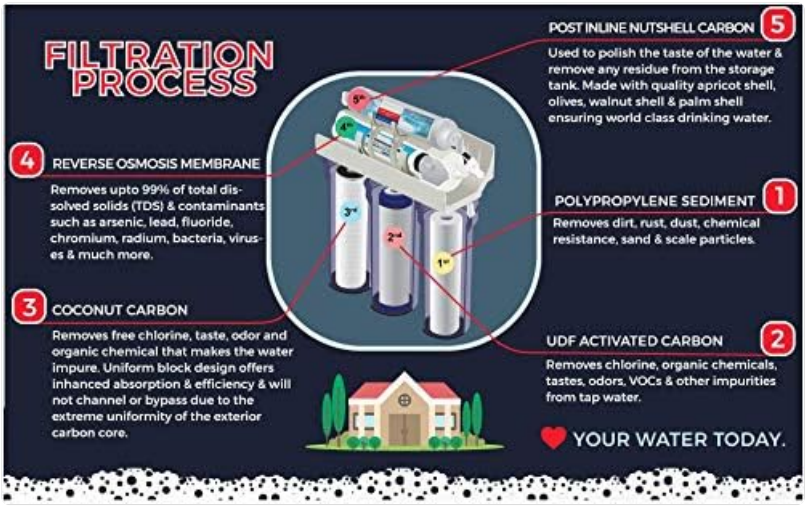


Figure 3: Visual representation of the 5-stage filtration process, highlighting each filter's function.

Operating Instructions

Once installed and flushed, the Premier Water Reverse Osmosis system operates automatically. The system will continuously fill the water storage tank with purified water as it is consumed.

Daily Operation:

- To dispense purified water, simply open the dedicated RO faucet.
- The system will automatically detect the water level in the storage tank and begin producing more purified water when needed.
- There is no need to manually refill or activate the system.

For optimal performance, ensure the cold water supply to the system remains open.

Maintenance

Regular maintenance, primarily filter replacement, is crucial to ensure the continued high performance and longevity of your Premier Water Reverse Osmosis system.

Filter Replacement Schedule:

- **Sediment, GAC, and Carbon Block Filters (Stages 1, 2, & 3):**These pre-filters should typically be replaced every 6-12 months, depending on your incoming water quality and usage.
- **RO Membrane (Stage 4):** The RO membrane is the heart of the system and generally lasts 2-3 years, but can vary based on water quality and pre-filter maintenance.
- **Post Activated Carbon Filter (Stage 5):** This filter should be replaced annually.

The product includes 4 replacement filters, which are typically the pre-filters and post-filter. Always refer to the specific filter replacement instructions provided with your replacement filter kit.



Figure 4: Example of replacement filters for the Premier Water RO system, including sediment, carbon block, and RO membrane filters. The RO membrane shown has a model number B075088965.

Filter Replacement Procedure:

1. Turn off the cold water supply to the RO system and close the tank valve.
2. Open the RO faucet to relieve pressure.
3. Use the provided filter wrench to unscrew the filter housings.
4. Remove old filters and dispose of them properly.
5. Clean the filter housings with mild soap and water.
6. Insert new filters, ensuring they are correctly oriented.
7. Screw the filter housings back on, hand-tightening first, then using the wrench for a snug fit.
8. Slowly turn on the cold water supply and open the tank valve. Check for leaks.
9. Flush the system as per initial setup instructions to remove any carbon fines from new filters.

Troubleshooting

This section provides solutions to common issues you might encounter with your Premier Water Reverse Osmosis system. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Low Water Flow from Faucet	Clogged pre-filters Low water pressure RO membrane fouled Tank pressure low or tank not full	Replace pre-filters (Sediment, Carbon Block, GAC). Check household water pressure. Replace RO membrane. Ensure tank valve is fully open; check tank air pressure.
Unpleasant Taste or Odor	Expired carbon filters New system not flushed adequately	Replace carbon filters (GAC, Carbon Block, Post Carbon). Perform a thorough system flush.
Water Leaks	Loose connections Damaged O-rings Cracked housing	Tighten all quick-connect fittings and filter housings. Inspect and replace any damaged O-rings. Contact customer support for replacement parts.

Specifications

Attribute	Detail
Brand	Premier Water Systems
Model Number	RO575WE
Part Number	RO575WE
Purification Method	5-Stage Reverse Osmosis
RO Membrane Capacity	75 Gallons Per Day (GPD)
Special Feature	Reduces Total Dissolved Solids (TDS)
Color	White
Country of Origin	USA

Attribute	Detail
UPC	818368010025

Warranty and Support

Premier Water Systems stands behind the quality of its products. For specific warranty details, please refer to the documentation included with your purchase or visit the official Premier Water Systems website.

Should you require assistance with installation, operation, maintenance, or troubleshooting, industry-leading help is available. You can contact customer support for Premier Water Systems, typically via phone or email, as indicated in your product packaging or on the manufacturer's website.

For replacement parts and filters, ensure you purchase genuine Premier Water Systems components to maintain system performance and warranty validity.

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