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Olympia OROS-50

Olympia Water Systems OROS-50 5-Stage Reverse Osmosis Water Filtration System User Manual

Model: OROS-50

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Olympia Water Systems OROS-50 5-Stage Reverse Osmosis Water Filtration System. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.

Safety Information

- Always turn off the water supply before performing any maintenance or filter changes.
- Do not install the system in direct sunlight or in areas where temperatures can drop below freezing.
- Ensure all connections are secure to prevent leaks.
- Use only genuine Olympia Water Systems replacement filters and parts.
- If you are unsure about any step, consult a qualified plumber or contact Olympia Water Systems customer support.

Product Overview

The Olympia Water Systems OROS-50 is a 5-stage reverse osmosis system designed to provide clean, high-quality drinking water by effectively removing various contaminants.



Figure 1: Olympia Water Systems OROS-50 complete system.

Components Included

Your OROS-50 system comes with all necessary components for a complete installation.



Figure 2: All components included for complete installation.

Filtration Stages

The OROS-50 system utilizes a comprehensive 5-stage filtration process:

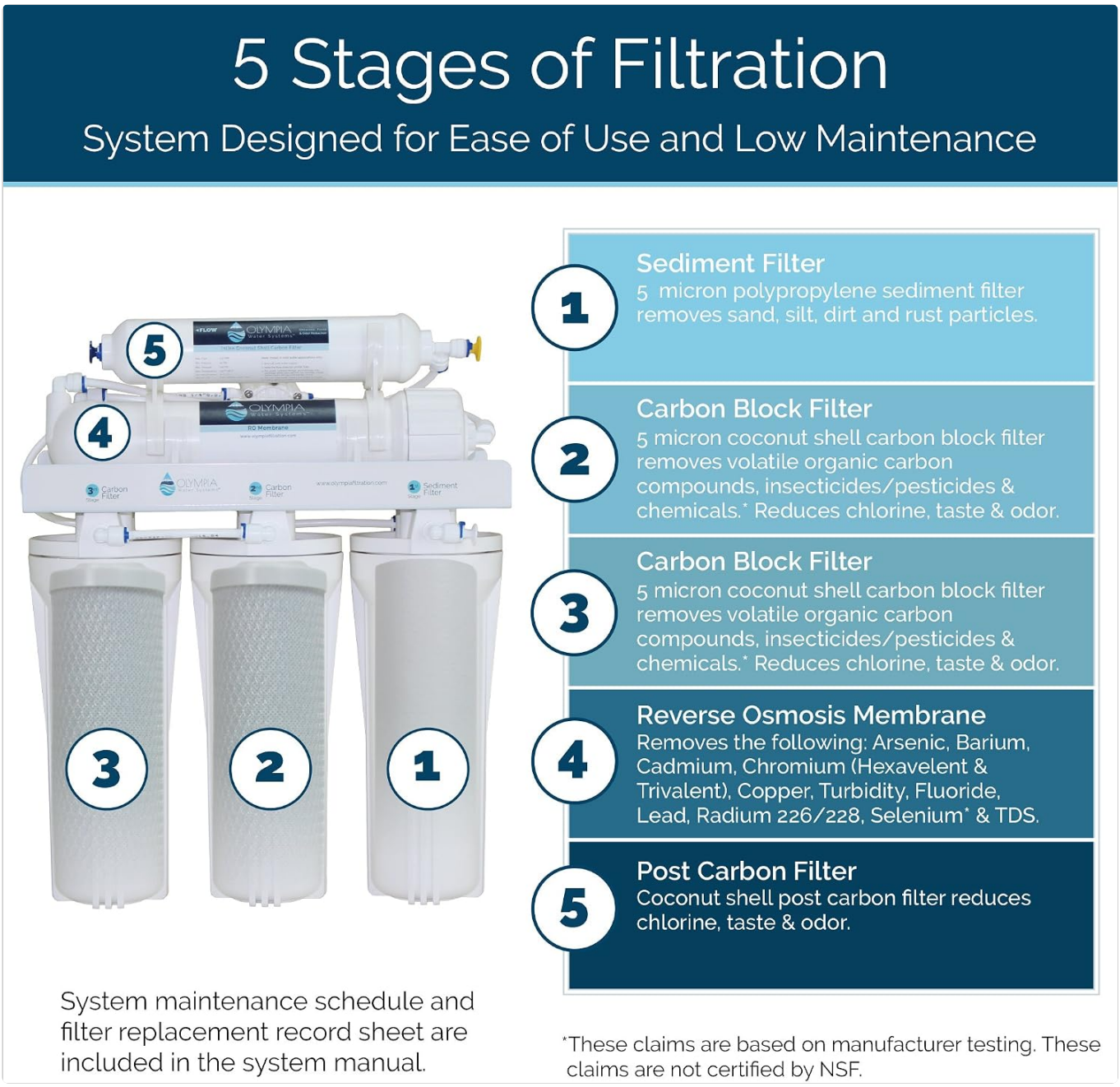

Figure 3: Detailed breakdown of the 5 filtration stages.

1. **Sediment Filter (Stage 1):** 5 micron polypropylene sediment filter removes sand, silt, dirt, and rust particles.
2. **Carbon Block Filter (Stage 2):** 5 micron coconut shell carbon block filter removes volatile organic compounds, insecticides, pesticides, and chemicals. Reduces chlorine, taste, and odor.
3. **Carbon Block Filter (Stage 3):** 5 micron coconut shell carbon block filter removes volatile organic compounds, insecticides, pesticides, and chemicals. Reduces chlorine, taste, and odor.
4. **Reverse Osmosis Membrane (Stage 4):** Removes arsenic, barium, cadmium, chromium (hexavalent & trivalent), copper, turbidity, fluoride, lead, radium 226/228, selenium, and Total Dissolved Solids (TDS).
5. **Post Carbon Filter (Stage 5):** Coconut shell post-carbon filter reduces chlorine, taste, and odor, providing final polishing to the water.

Note: Claims regarding contaminant removal are based on manufacturer testing.

Product Overview Video

Watch this official video for an overview of the Olympia Water Systems RO system.

▶ **Watch video online**

Olympia Water Systems - NSF Certified RO System Overview

Video 1: Olympia Water Systems - NSF Certified RO System Overview. This video demonstrates the unboxing, assembly, and quality inspection process of the RO system.

Setup and Installation

Follow these steps carefully for proper installation of your reverse osmosis system.

Pre-Installation Checklist

- Ensure you have all components as listed in the "Components Included" section.
- Identify a suitable location under your sink for the system and storage tank.
- Turn off the cold water supply to your sink.
- Gather necessary tools: adjustable wrench, drill with appropriate bits, utility knife, bucket, and towels.

Installation Steps

1. **Install the Faucet:**
    - If your sink has an existing hole (e.g., for a soap dispenser), use it. Otherwise, drill a 1/2 inch hole in a suitable location on your sink or countertop.
    - Insert the faucet stem through the hole, securing it with the provided washers and nut from underneath.
    - Connect the faucet tubing to the system's final stage output.



Figure 4: Faucet dimensions.

2. **Connect the Feed Water Adapter:**
    - Locate the cold water supply line under your sink.
    - Disconnect the existing cold water line from the angle stop valve.
    - Install the feed water adapter (feed water angle valve) onto the angle stop valve, then reconnect the cold water line to the adapter.
    - Connect the 1/4 inch tubing from the feed water adapter to the inlet of the RO system's first filter housing.

3. **Install the Drain Saddle Valve:**
    - Choose a location on the drain pipe above the P-trap.
    - Drill a 1/4 inch hole through one side of the drain pipe.
    - Attach the drain saddle valve to the drain pipe, aligning the hole in the saddle with the drilled hole. Secure tightly.
    - Connect the drain line tubing from the RO system to the drain saddle valve.
4. **Connect the Storage Tank:**
    - Wrap the threaded nipple of the storage tank with Teflon tape.
    - Screw the tank ball valve onto the tank nipple.
    - Connect the tubing from the RO system's membrane housing to the storage tank ball valve.
5. **Insert Filters and Membrane:**
    - Unwrap the pre-filters (Sediment and Carbon Blocks) and insert them into their respective housings. Tighten housings using the provided wrench.
    - Insert the RO membrane into its housing and secure the cap.
    - Connect the post-carbon filter (Stage 5) to the system.



Figure 5: Individual filter cartridges.

6. **System Flush (Initial Startup):**
    - Turn on the cold water supply slowly. Check for leaks.
    - Open the RO faucet and allow water to flow for 25 minutes to flush the carbon filters.
    - Close the faucet and allow the storage tank to fill completely (this may take 2-3 hours).
    - Once full, open the faucet and drain the tank completely. Repeat this fill/drain cycle 2-3 times to fully flush the system.

Operation

Your Olympia Water Systems OROS-50 is designed for automatic operation once installed.

- To dispense purified water, simply open the dedicated RO faucet.
- The system will automatically refill the storage tank as water is used.
- The 50 GPD (Gallons Per Day) membrane ensures a steady supply of purified water for typical household use.

Maintenance

Regular maintenance, primarily filter replacement, is crucial for the optimal performance and longevity of your RO system.

Filter Replacement Schedule



Figure 6: Recommended filter replacement intervals.

Recommended Filter Replacement Intervals

Stage	Filter Type	Replacement Interval
1	5 micron polypropylene sediment filter	6-12 Months
2	5 micron coconut shell carbon block filter	6-12 Months

Stage	Filter Type	Replacement Interval
3	5 micron coconut shell carbon block filter	6-12 Months
4	50 GPD RO Membrane	2-3 Years
5	coconut shell post-carbon filter	12-24 Months

Note: Replacement times may vary depending on usage and feed water quality.

Filter Replacement Procedure

1. Turn off the cold water supply to the RO system.
2. Open the RO faucet to relieve pressure in the system.
3. Use the provided filter housing wrench to unscrew the filter housings.
4. Remove old filters and dispose of them properly.
5. Clean the inside of the filter housings.
6. Insert new filters, ensuring they are correctly seated.
7. Screw the filter housings back on, hand-tighten, then use the wrench for a final snug turn (do not overtighten).
8. For membrane replacement, carefully remove the old membrane and insert the new one, ensuring the O-rings are properly seated.
9. Turn on the cold water supply slowly and check for leaks.
10. Perform a system flush as described in the "Setup and Installation" section to remove any carbon fines from new filters.

TROUBLESHOOTING

This section addresses common issues you might encounter with your RO system.

Troubleshooting Guide

Problem	Possible Cause	Solution
No water from faucet	Water supply off; Tank valve closed; Clogged filters/membrane; Low water pressure	Check water supply; Open tank valve; Replace filters/membrane; Check incoming water pressure
Slow water flow	Clogged filters/membrane; Low tank pressure; Kinked tubing	Replace filters/membrane; Check tank air pressure (5-7 psi empty); Straighten tubing
Water tastes bad	Spent carbon filters; Contaminated tank; New system not flushed	Replace carbon filters; Sanitize tank; Perform system flush
Leaks	Loose connections; Damaged O-rings; Cracked housing	Tighten connections; Replace O-rings; Replace damaged component
High TDS in purified water	Spent RO membrane; High incoming TDS	Replace RO membrane; Consider pre-treatment for very high incoming TDS

Specifications

Brand: Olympia Water Systems

Model Name: OROS-50

Filtration Stages: 5

Membrane Capacity: 50 Gallons Per Day (GPD)

Installation Type: Under Sink

Product Dimensions: 16"L x 12"W x 20"H

Upper Temperature Rating: 100 Degrees Fahrenheit

Supported Water TDS Level Maximum: 350 PPM

Special Feature: Lead-free

UPC: 059276006056, 859276006052, 059276006049

Warranty and Support

For warranty information, technical support, or to purchase replacement parts and filters, please contact Olympia Water Systems customer support.

- **Customer Support:** USA based customer support from Olympia Water Systems.
- Refer to the original product packaging or the Olympia Water Systems website for the most current contact information.

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