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Ecosoft MO550MPECOSTD

Ecosoft Standard PRO Reverse Osmosis Filter with Pump User Manual

Model: MO550MPECOSTD

1. Introduction

Thank you for choosing the Ecosoft Standard PRO Reverse Osmosis Filter with an integrated pump. This system provides a reliable and efficient solution for obtaining pure drinking water in your home. Designed for optimal performance, it features a 5-stage filtration process, including a mineralizing post-filter, to deliver clean, fresh, and mineral-enriched water. This manual provides essential information for the safe installation, operation, and maintenance of your water purification system.

Key Features:

- **5-Stage Advanced Filtration:** Includes sediment, granular activated carbon, reverse osmosis membrane, and a mineralizing post-filter for comprehensive purification.
- **Integrated Pump:** Ensures efficient operation even in low water pressure environments.
- **High Performance:** Produces up to 8 liters of purified drinking water per hour (approximately 190 liters per day).
- **Ecosoft Membrane:** High-performance membrane for maximum removal of pollutants, including PFAS (up to 99%).
- **Mineralization:** Improves water taste by adding beneficial minerals like calcium and magnesium.
- **Certified Components:** NSF/ANSI 58 certified components and BPA-free food-grade plastics for safety and durability.

2. Safety Information

Please read all safety instructions carefully before installing, operating, or performing maintenance on your Ecosoft Standard PRO system. Failure to follow these instructions could result in property damage, injury, or system malfunction.

- Always ensure the system is installed by a qualified professional or someone with adequate plumbing knowledge.
- Do not use the system with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Ensure all connections are secure to prevent leaks. Check for leaks periodically.
- The system contains electrical components (pump). Disconnect power before performing any maintenance. Do not operate with damaged cords or plugs.
- Do not expose the system to freezing temperatures, as this can cause damage.
- Use only genuine Ecosoft replacement filters and parts to ensure optimal performance and safety.
- Keep the system away from direct sunlight and heat sources.

3. Package Contents

Carefully unpack your Ecosoft Standard PRO system and check that all components are present and undamaged. If any parts are missing or damaged, please contact your retailer.



Image: Overview of the Ecosoft Standard PRO reverse osmosis system components, including the main filter unit, pressure tank, faucet, and various installation accessories.

- Main Reverse Osmosis Filter Unit (with integrated pump)
- Pressure Tank (for purified water storage)
- Drinking Water Faucet
- Set of Pre-filter Cartridges (Sediment PP 5-micron, GAC Coconut Shell Carbon, Sediment PP 1-micron)
- Reverse Osmosis Membrane Element
- Mineralization Post-filter
- Feed Water Adapter (for connecting to cold water line)
- Drain Saddle (for connecting to drain pipe)

- Set of Colored Tubes (for water connections)
- Housing Wrenches (for filter housing and membrane housing)
- Flow Restrictor and Locking Clip
- Tank Ball Valve
- User Manual (this document)

4. System Components Overview

Understanding the function of each component is crucial for proper installation and maintenance.



Image: The Ecosoft Standard PRO reverse osmosis system, showing the main unit with three pre-filter housings, the RO membrane housing, the post-filter, the storage tank, and the faucet. Individual replacement filters are also displayed.

- **Pre-filters:** Remove larger particles, chlorine, and organic matter to protect the RO membrane.
- **Reverse Osmosis Membrane:** The core of the system, removing up to 99.8% of dissolved solids, bacteria, and viruses.

- **Mineralization Post-filter:** Enhances water taste and adds beneficial minerals after RO purification.
- **Pressure Tank:** Stores purified water, ensuring a readily available supply.
- **Integrated Pump:** Boosts water pressure for efficient RO membrane operation, especially in low-pressure areas.
- **Drinking Faucet:** Dispenses purified water.

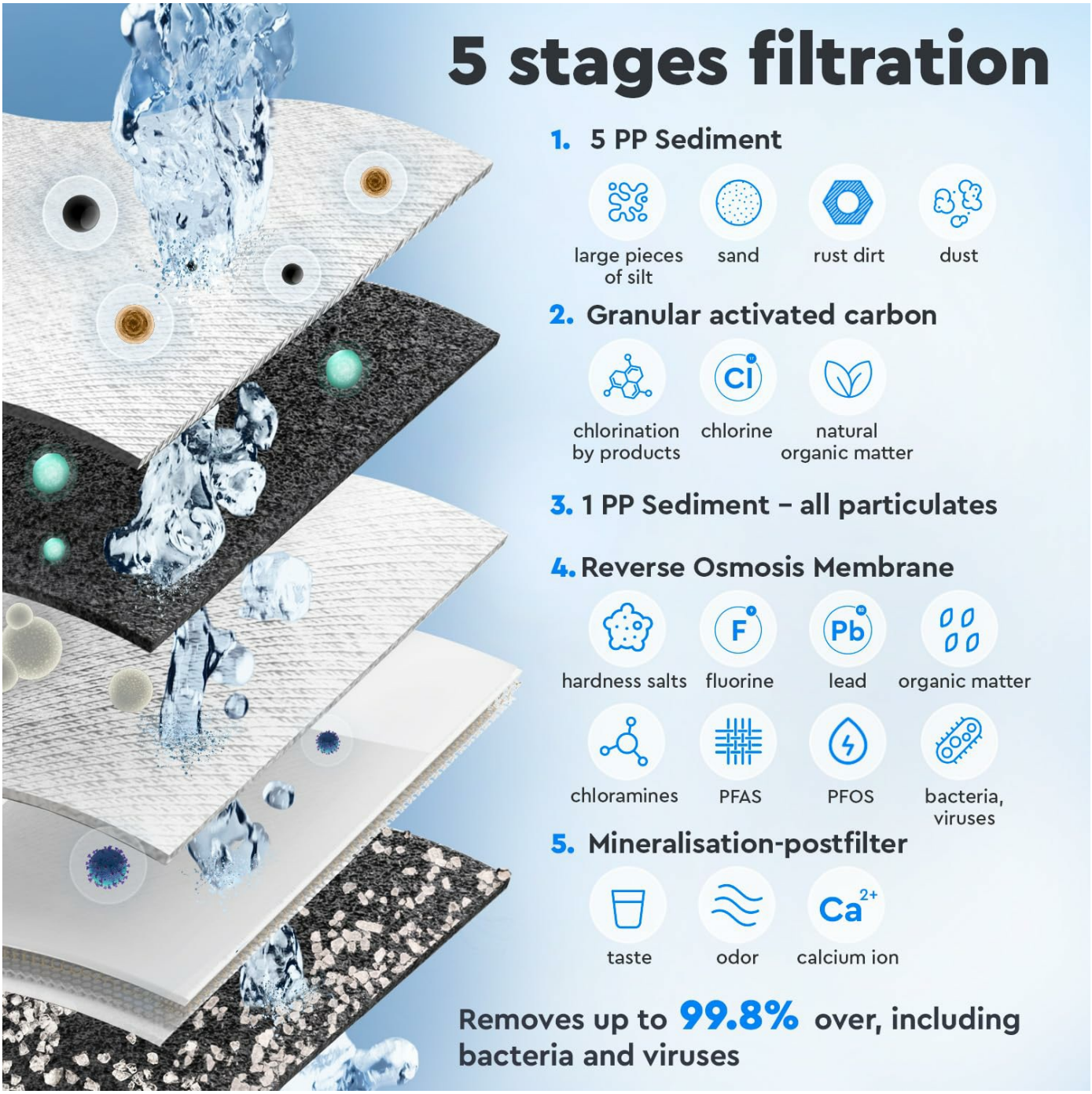


Image: Detailed diagram illustrating the 5 stages of filtration: 1. PP Sediment (large particles, sand, rust, dust), 2. Granular Activated Carbon (chlorination by-products, chlorine, organic matter), 3. PP Sediment (all particulates), 4. Reverse Osmosis Membrane (hardness salts, fluorine, lead, organic matter, chloramines, PFAS, bacteria, viruses), 5. Mineralization Post-filter (taste, odor, calcium ion).

5. Installation and Setup

The Ecosoft Standard PRO system is designed for under-sink installation. For detailed step-by-step instructions, please refer to the official installation manual available online. A general overview is provided below.

Important: Turn off the main water supply before beginning installation.



Image: A detailed flow diagram showing the path of water through the Ecosoft Standard PRO system. It illustrates feed water entering pre-filters (Sediment PP, GAC, Sediment PP), then to the RO membrane, with purified water going to the storage tank and then to the ball valve faucet, and reject water going to the drain.

Installation Steps (Summary):

1. **Install the Faucet:** Choose a suitable location on your sink or countertop and drill a hole for the faucet. Secure the faucet.
2. **Connect to Cold Water Supply:** Install the feed water adapter to your cold water line under the sink.
3. **Install the Drain Saddle:** Attach the drain saddle to the drain pipe under the sink.
4. **Mount the Filter Unit:** Secure the main filter unit in a convenient location under the sink, ensuring enough space for filter changes.
5. **Connect Tubing:** Connect the colored tubes according to the flow diagram:
    - Feed water line to the inlet of the pre-filter housing.
    - Purified water line from the post-filter to the pressure tank and faucet.
    - Drain line from the RO membrane housing to the drain saddle.

6. **Install Filters and Membrane:** Insert the pre-filters, RO membrane, and post-filter into their respective housings. Ensure O-rings are properly seated.
7. **Connect Pressure Tank:** Connect the pressure tank to the system using the tank ball valve.
8. **Connect Power:** Plug in the power adapter for the integrated pump.
9. **Check for Leaks:** Slowly turn on the main water supply and check all connections for leaks. Tighten as necessary.



Image: An Ecosoft Standard PRO system installed under a kitchen sink, showing its compact dimensions (41 cm width, 45.5 cm height for the main unit, 35 cm height for the tank) to help assess fit.

For a comprehensive installation guide, please download the official manual from the Ecosoft website: Ecosoft Domestic Filter Manual

6. Operating Instructions

Initial System Start-up and Flushing:

Before consuming water from the system, it is essential to flush it to remove any carbon fines and air from the new filters.

1. Ensure all connections are secure and the main water supply is on.
2. Open the RO faucet and leave it open.
3. Allow the system to fill the pressure tank. This may take 1-2 hours. The pump will operate during this time.
4. Once the tank is full (water flow from the faucet slows to a trickle or stops), close the faucet.
5. Wait for 10-15 minutes for the tank to fully pressurize.
6. Open the RO faucet completely and let all the water drain from the tank. This flushes the system.
7. Repeat this fill-and-drain cycle 2-3 times. This ensures proper flushing and activation of the filters.
8. After flushing, the system is ready for use.

Normal Operation:

- To dispense purified water, simply open the RO faucet.
- The system will automatically refill the pressure tank as water is drawn. The integrated pump will activate when needed to maintain optimal pressure for the RO membrane.
- The system features an automatic shut-off when the pressure tank is full, conserving water and extending filter life.

7. Maintenance

Regular maintenance, primarily filter replacement, is crucial for the continued performance and safety of your Ecosoft Standard PRO system. Filter life depends on local water quality and usage.

Recommended Filter Replacement Schedule:

- **Pre-filters (Sediment and Carbon):** Every 3-6 months. Replace all three pre-filters simultaneously.
- **Reverse Osmosis Membrane:** Every 12-24 months, or when water production significantly decreases, or purified water quality declines.
- **Mineralization Post-filter:** Every 6-12 months.

Filter Replacement Procedure:

1. **Turn off Water Supply:** Close the feed water valve and the tank ball valve. Open the RO faucet to relieve pressure.
2. **Disconnect Power:** Unplug the system's power adapter.
3. **Remove Filter Housings:** Use the provided housing wrench to unscrew the filter housings. Be prepared for some water spillage.
4. **Remove Old Filters:** Discard the old filter cartridges.
5. **Clean Housings:** Rinse the inside of the filter housings with clean water.
6. **Insert New Filters:** Unwrap new filters and insert them into their respective housings. Ensure O-rings are clean and properly seated.
7. **Screw Housings Back On:** Hand-tighten the housings, then use the wrench for a final snug turn (do not overtighten).
8. **Restore Water and Power:** Slowly open the feed water valve and the tank ball valve. Plug in the power adapter.
9. **Check for Leaks:** Carefully inspect all connections for leaks.
10. **Flush System:** Perform a system flush as described in the "Initial System Start-up and Flushing" section to remove air and carbon fines from new filters.

Always use genuine Ecosoft replacement filters to maintain system performance and warranty.

8. Troubleshooting

This section addresses common issues you might encounter with your Ecosoft Standard PRO system. For problems not

listed here, please contact customer support.

Problem	Possible Cause	Solution
No water from faucet or very slow flow	• Feed water valve closed • Tank ball valve closed • Clogged pre-filters or RO membrane • Low pressure in storage tank • System not plugged in (pump not running)	• Open feed water valve • Open tank ball valve • Replace pre-filters or RO membrane • Check tank pressure (should be 5-7 psi when empty) • Ensure power adapter is connected and working
Water has an unusual taste or odor	• Expired carbon filters or post-filter • New system not properly flushed	• Replace carbon pre-filters and post-filter • Perform additional flushing cycles
Water leaking from system	• Loose connections • Damaged O-rings • Cracked housing	• Tighten all connections (do not overtighten) • Inspect and replace damaged O-rings • Contact support for replacement parts
Pump runs continuously or too frequently	• Low tank pressure • Leaking system • Faulty automatic shut-off valve	• Check and adjust tank pressure • Inspect for and fix any leaks • Contact support for diagnosis

9. Specifications

Feature	Detail
Brand	Ecosoft
Model Name	Standard PRO (Con Bomba)
Manufacturer Model Number	MO550MPECOSTD
Purification Method	Reverse Osmosis
Number of Filtration Stages	5
Special Features	Reduce TDS, Automatic Shut-off, Integrated Pump
Product Dimensions (L x W x H)	19.5L x 41W x 45.5H cm
Material	Plastic
Installation Type	Under-sink

Feature	Detail
Power Source	Corded Electric
Maximum Flow Rate	190 Liters per day (approx. 8 L/hour)
Operating Pressure Range	2-5 Bar
Operating Temperature Range	5 - 40 Degrees Celsius
Maximum Supported TDS	1500 PPM
Water Saving Percentage	20%



Image: A certificate from the Water Quality Association (WQA) confirming compliance with American and Canadian standards, showing the Gold Seal Certificate issued to Ecosoft SPC Ltd.

For more information on WQA certification, visit: WQA Product Finder

10. Warranty and Support

Ecosoft products are manufactured to high-quality standards. Specific warranty terms and conditions may vary by region. Please refer to the warranty card included with your product or visit the official Ecosoft website for detailed warranty information.

For technical assistance, replacement parts, or any questions regarding your Ecosoft Standard PRO system, please contact Ecosoft customer support or your authorized dealer. When contacting support, please have your model number (MO550MPECOSTD) and purchase date available.

Official Ecosoft Website: www.ecosoft.com

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