

Naturewater 51079

Naturewater 5-Stage Reverse Osmosis System 180L/day with Booster Pump

Model: 51079

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Naturewater 5-Stage Reverse Osmosis (RO) System. This system is designed to provide high-quality purified water by removing up to 99% of impurities through a multi-stage filtration process, enhanced by an integrated booster pump. Please read these instructions carefully before installation and use to ensure proper function and longevity of your system.

2. SAFETY INFORMATION

Always follow basic safety precautions when installing and operating this appliance to reduce the risk of fire, electric shock, and personal injury.

- Ensure all connections are secure and leak-free before operating the system.
- Do not operate the system with damaged components.
- Disconnect power before performing any maintenance or filter changes.
- The system operates under pressure. Handle with care.
- Keep the system away from direct sunlight and freezing temperatures.
- For detailed safety information, refer to the official Safety Information PDF: [Safety Information \(PDF\)](#).

3. PRODUCT OVERVIEW

The Naturewater 5-Stage Reverse Osmosis System utilizes a comprehensive filtration process to deliver pure water. It includes a booster pump to optimize water pressure for efficient filtration and a pressure indicator for monitoring system performance.

3.1 Filtration Stages

1. **1st Stage: 5 Micron Sediment Filter:** Acts as a pre-filter, removing sand, lime, rust, and other particles up to 5 microns in size.
2. **2nd Stage: Block Activated Carbon Filter:** Filters out most toxins from raw water, including pesticides, asbestos fibers, chlorine, chlorine degradation products, and multicellular microorganisms.

3. **3rd Stage: Granulated Activated Carbon Filter for Sediments:** Filters very fine particles and protects the RO membrane from clogging.
4. **4th Stage: RO Membrane:** The core of the system, removing approximately 96% of all foreign elements and contaminants such as aluminum, ammonia, calcium, chromium, cyanide, zinc, cadmium, manganese, magnesium, copper, nickel, lead, silver, strontium, iron, uranium, pesticides, bacteria, viruses, medication residues, algae, and spores.
5. **5th Stage: Post-Activated Carbon Filter:** Eliminates residual chlorine and neutralizes changes in odor and taste in the final stage.

3.2 System Components



The complete Naturewater 5-Stage Reverse Osmosis System, showing the main unit with filters and booster pump.



The main RO unit with three pre-filter housings visible at the bottom.



A detailed view of the integrated booster pump and pressure gauge, essential for system operation.



The pressurized storage tank for purified water, labeled 'Reverse Osmosis Storage Tank'.



Various filters and system components, including sediment and carbon filters, and a filter wrench.



The Vontron RO membrane element, crucial for the reverse osmosis process.



The installation kit, including the dispensing faucet, tubing, and various connectors.

4. SETUP AND INSTALLATION

The Naturewater RO system is designed for under-sink installation. Professional installation is recommended, but if you choose to install it yourself, follow these general steps. For detailed instructions, refer to the user manual PDF.

4.1 Pre-Installation Checks

- Unpack all components and ensure nothing is missing or damaged.
- Turn off the main water supply to your home.
- Ensure you have the necessary tools (drill, wrench, sealant tape, etc.).

4.2 Installation Steps (General)

1. **Mount the RO Unit:** Secure the main RO unit under the sink using the provided mounting bracket.
2. **Install the Faucet:** Drill a hole in your sink or countertop for the dispensing faucet and secure it.
3. **Connect to Cold Water Supply:** Install the feed water adapter (T-valve) to your cold water line and connect the RO system's input tubing.
4. **Connect to Drain:** Install the drain saddle valve onto the sink's drainpipe and connect the RO system's drain tubing.
5. **Connect Storage Tank:** Connect the pressurized storage tank to the RO unit.
6. **Connect Faucet:** Connect the purified water line from the RO unit to the dispensing faucet.
7. **Electrical Connection:** Plug in the booster pump's power adapter to a suitable electrical outlet.
8. **Leak Check:** Slowly turn on the main water supply and check all connections for leaks.

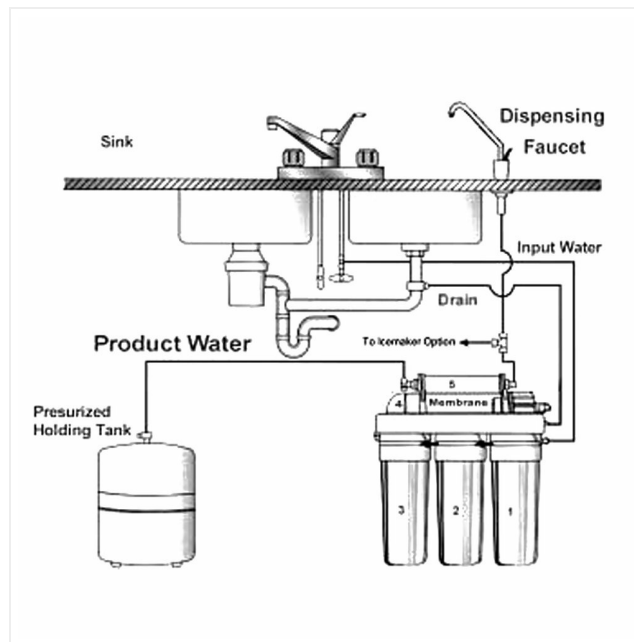


Diagram illustrating a typical under-sink installation of a reverse osmosis system, showing connections for input water, product water, drain, and dispensing faucet.

For a comprehensive guide, please refer to the official User Manual (PDF): [User Manual \(PDF\)](#).

5. OPERATING INSTRUCTIONS

5.1 Initial System Flush

Before consuming water from the system, an initial flush is required to remove any carbon fines and sanitize the system:

1. After installation, ensure the storage tank valve is closed and the faucet is open.
2. Allow water to flow through the system and out the faucet for 10-15 minutes. This flushes the carbon filters.
3. Close the faucet and open the storage tank valve. Allow the tank to fill completely (this may take 2-4 hours).
4. Once the tank is full, open the faucet and drain the tank completely. Discard this first tank of water.
5. Repeat the fill and drain process 2-3 times to ensure thorough flushing and optimal water quality.

5.2 Daily Operation

To dispense purified water, simply open the dedicated RO faucet. The system will automatically refill the storage tank as water is used. The booster pump will activate as needed to maintain optimal pressure for the RO membrane.

6. MAINTENANCE

Regular maintenance is crucial for the efficient operation and longevity of your RO system. Filter life depends heavily on the quality of your incoming water.

6.1 Filter Replacement Schedule (General Guidelines)

- **Stages 1, 2, 3 (Sediment & Carbon Pre-filters)** Replace every 6-12 months.
- **Stage 4 (RO Membrane):** Replace every 2-3 years, or when water production significantly decreases, or water quality deteriorates.
- **Stage 5 (Post-Carbon Filter):** Replace every 12 months.

6.2 Filter Replacement Procedure

1. Turn off the cold water supply to the RO system and close the storage 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 clean the housings.
5. Insert new filters, ensuring proper orientation.
6. Screw the housings back on tightly, hand-tighten, then use the wrench for a quarter turn.
7. Slowly turn on the water supply and check for leaks.
8. Perform a system flush as described in Section 5.1 after replacing any filters.

Filters are sealed to maintain quality during storage. Ensure you use genuine Naturewater replacement filters for optimal performance.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No water from faucet or very slow flow	• Water supply turned off • Clogged filters • Low incoming water pressure • Faulty booster pump • Clogged RO membrane • Storage tank not pressurized	• Check water supply valve • Replace pre-filters • Check booster pump operation • Replace RO membrane • Check tank air pressure (refer to manual for details)
Water has bad taste or odor	• Expired post-carbon filter • Contaminated storage tank • New system not flushed properly	• Replace post-carbon filter • Sanitize system and tank • Perform initial system flush

Problem	Possible Cause	Solution
Water leaks	• Loose connections • Damaged O-rings • Cracked housing	• Tighten connections • Replace O-rings • Contact support for replacement parts
Booster pump not running	• No power • Pressure switch issue • Pump malfunction	• Check power connection • Consult user manual for pressure switch adjustment/replacement • Contact support

8. SPECIFICATIONS

Feature	Specification
Model Number	51079
Purification Stages	5
Daily Production Capacity	Up to 180 liters (approx. 8 liters/hour)
Booster Pump	Integrated
Storage Tank Capacity	11.35 liters
Dimensions (L x W x H)	44 cm x 18.6 cm x 35.8 cm
Weight	11.94 kg
Material	Polypropylene
Minimum Temperature	4°C
Maximum Temperature	42°C
Operating Pressure Range	5.5 Bar
Installation Type	Under-sink (Unterbau)
Included Components	RO unit, filters, storage tank, dispensing faucet, tubing, connectors, filter wrench

9. WARRANTY AND SUPPORT

Naturewater products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Naturewater customer service. In case of technical issues or questions not covered in this manual, please reach out to Naturewater support for assistance.

You can visit the Naturewater brand store for more information and contact options: [Naturewater Brand Store](#).

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