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› Vortopt 800 GPD Tankless RO System DR4 User Manual

Vortopt DR4

Vortopt 800 GPD Tankless RO System DR4 User Manual

Model: DR4

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Vortopt 800 GPD Tankless Reverse Osmosis (RO) System, Model DR4. This advanced 7-stage filtration system is designed to provide high-quality purified water by reducing various contaminants, including PFAS, TDS, fluoride, lead, chromium, nitrates, and radium. Its tankless design ensures fresh water on demand and saves space under your sink.

2. PACKAGE CONTENTS

Before beginning installation, please verify that all components listed below are included in your package:

- Stainless Steel Faucet *1
- Feed water adapter 3/8" and 1/2" *1
- 3/8" PE pipe *1 and 1/4" PE pipe *1
- Drain saddle *1
- Waste water tubing 1/4" *1
- Straight-through connector *1
- Power adapter *1
- User manual *1
- Quick connect clip *8

Package List



Stainless Steel Faucet *1



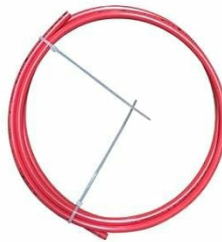
Feed water adapter
3/8" and 1/2" *1



3/8" PE pipe *1 and
1/4" PE pipe *1



Drain saddle *1



Waste
water tubing 1/4" *1



Straight-through
connector *1



Power adapter *1



User manual *1



Quick connect clip *8

Figure 2.1: All components included in the Vortopt DR4 RO system package.

3. SETUP AND INSTALLATION

The Vortopt DR4 system is designed for under-sink installation. Its compact dimensions allow it to fit comfortably in most kitchen cabinets.

3.1 System Dimensions

The main unit measures approximately 16.15" L x 5.83" W x 14.12" H. Ensure adequate space under your sink for proper placement and access for filter changes.

Taste the Difference with Pure, Filtered Water



Figure 3.1: Vortopt DR4 system dimensions and under-sink placement.

3.2 General Installation Steps

1. **Prepare the Installation Area:** Clear the under-sink cabinet. Ensure access to the cold water line and a drain pipe.
2. **Install the Smart Faucet:** Drill a hole in your countertop or use an existing one for the smart faucet. Secure the faucet according to the instructions provided with the faucet kit.
3. **Connect the Feed Water Adapter:** Turn off the cold water supply. Install the feed water adapter to the cold water line.
4. **Install the Drain Saddle:** Attach the drain saddle to the drain pipe above the P-trap.
5. **Connect Tubing:** Connect the appropriate tubing from the feed water adapter to the RO system inlet, from the RO system outlet to the smart faucet, and from the RO system drain port to the drain saddle. Use quick connect clips to secure connections.
6. **Connect Power:** Plug the power adapter into the RO system and then into a standard electrical outlet.
7. **Flush the System:** Turn on the cold water supply. Open the smart faucet and allow water to run for at least 15-30 minutes to flush the system and new filters. Check for any leaks.

For detailed, step-by-step visual instructions, please refer to the dedicated installation section in the printed user manual.

4. OPERATING INSTRUCTIONS

The Vortopt DR4 system is designed for simple and efficient operation, providing purified water on demand.

4.1 Dispensing Water

To dispense purified water, simply open the smart faucet. The tankless design ensures that water is filtered in real-time, providing fresh water without storage. The system boasts an 800 GPD (Gallons Per Day) capacity, delivering water at a fast flow rate of 0.56 GPM (Gallons Per Minute), capable of filling an 8oz glass in approximately 6 seconds.



Figure 4.1: Fast water flow from the Vortopt DR4 system.

4.2 Water Efficiency

The DR4 system features an eco-friendly 3:1 pure-to-drain ratio, meaning for every 3 gallons of purified water

produced, only 1 gallon is sent to the drain. This high efficiency (67.1% productivity) significantly reduces water waste compared to traditional RO systems.

3:1 Pure to Drain Save 12X Water

Say Goodbye to High Water Bills

Other RO Systems



1



:

4



Vortopt DR4



3



:

1



Figure 4.2: Vortopt DR4's 3:1 pure-to-drain water-saving ratio.

5. MAINTENANCE

Regular maintenance, primarily filter replacement, is crucial for ensuring the continued performance and longevity of your Vortopt DR4 RO system.

5.1 Filter System Overview

The DR4 utilizes an innovative dual-cartridge design, simplifying filter replacement compared to traditional multi-cartridge systems. It includes:

- **PCB Composite Filter:** Combines PP (Polypropylene) and carbon rod filtration to remove sediment, chlorine, and improve taste.
- **RO (Reverse Osmosis) Filter:** A high-efficiency membrane that targets heavy metals, PFAS, TDS, and other microscopic contaminants.

Upgraded PCB Composite Filter and RO Filter

Reduce the cost of filter replacement



Figure 5.1: Vortopt DR4 PCB Composite and RO Filters.

5.2 Filter Replacement Schedule

The recommended replacement cycles are:

- **PCB Composite Filter:** Every 6-12 months, depending on water quality and usage.
- **RO Filter:** Every 24-36 months, depending on water quality and usage.

The system features tool-free filter replacement for ease of maintenance. Refer to the full user manual for detailed filter replacement instructions.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Vortopt DR4 RO system.

6.1 Low Water Flow

- **Check Water Supply:** Ensure the cold water supply valve to the system is fully open.

- **Inspect Filters:** Clogged filters are a common cause of low flow. Check the filter replacement schedule and replace filters if they are due.
- **Kinked Tubing:** Examine all water lines for kinks or obstructions.

6.2 Unusual Taste or Odor

- **Flush System:** If the system is new or filters have just been replaced, run water for an extended period (e.g., 30 minutes) to flush out any residual carbon fines.
- **Replace Filters:** If taste or odor persists, the PCB composite filter may be exhausted and require replacement.

6.3 Leaks

- **Check Connections:** Ensure all quick-connect fittings are properly seated and secured with clips.
- **Inspect O-rings:** If a filter housing is leaking, ensure the O-ring is correctly positioned and not damaged.
- **Tighten Fittings:** Gently tighten any threaded connections that may have loosened.

If you encounter an issue not listed here or if the suggested solutions do not resolve the problem, please contact Vortopt customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	Vortopt
Model Name	DR4
Product Dimensions (L x W x H)	16.15" x 5.83" x 14.12"
Material	Polypropylene, Reverse Osmosis Membrane
Capacity	800 Gallons Per Day (GPD)
Maximum Flow Rate	0.56 Gallons Per Minute (GPM)
Purification Method	7-Stage Reverse Osmosis
Installation Type	Under Sink
Water-Saving Ratio (Pure:Drain)	3:1
Supported Water TDS Level Maximum	500 PPM
Special Feature	Reduces TDS, Smart Faucet

8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included in your product packaging or visit the official Vortopt website. If you require technical assistance, have questions about installation, operation, or maintenance, or need to order replacement parts, please contact Vortopt customer support through the contact information provided in your product documentation or on the manufacturer's website.

