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› Hydrotech 4VTFC75G 4 Vessel 75 GPD Reverse Osmosis System User Manual

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Model: 4VTFC75G

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hydrotech 4VTFC75G 4 Vessel 75 GPD Reverse Osmosis System. This system is designed to provide clean, purified water for your home by effectively removing impurities through a multi-stage filtration process. Please read these instructions carefully before installation and use to ensure optimal performance and longevity of your system.

2. PRODUCT OVERVIEW

The Hydrotech 4VTFC75G is a 4-stage Reverse Osmosis (RO) system engineered for under-sink installation. It includes all necessary components for a complete water purification setup.

Key Components:

- **4-Stage Filtration Unit:** Contains the sediment pre-filter, two carbon filters, and the RO membrane.
- **Thin-Film Composite (TFC) RO Membrane:** Part #33001056, responsible for the primary purification process.
- **Sediment Pre-filter:** Part #41400008, removes larger particles.
- **Carbon Pre-filter:** Part #41400009, removes chlorine and other chemicals.
- **Carbon Post-filter:** Part #41400009, provides final polishing of the water.
- **Storage Tank:** Stores purified water for on-demand use.
- **Chrome Faucet:** Dispenses purified water.



Figure 1: Hydrotech 4VTFC75G Reverse Osmosis System components. This image displays the main filtration unit with four vertical filter housings, a separate white storage tank, and a chrome faucet. The filtration unit has "Hydrotech" branding on top.

3. SETUP AND INSTALLATION

The Hydrotech 4VTFC75G system is designed for straightforward installation, featuring quick-connect fittings and color-coded tubing to simplify the process. Professional installation is recommended if you are unfamiliar with plumbing procedures.

Installation Steps (Summary):

1. **Prepare the Installation Area:** Ensure sufficient space under your sink for the filtration unit and storage tank.
2. **Install the Faucet:** Drill a hole in your countertop or sink for the chrome faucet, if one is not already present. Secure the faucet according to the included instructions.
3. **Connect to Cold Water Supply:** Shut off the main water supply. Install the feed water adapter to your cold water line.
4. **Mount the Filtration Unit:** Secure the 4-stage filtration unit to the cabinet wall using appropriate hardware.
5. **Connect Tubing:** Use the color-coded tubing and quick-connect fittings to link the feed water adapter, filtration unit, storage tank, and faucet. Ensure all connections are secure to prevent leaks.
6. **Install Drain Saddle:** Attach the drain saddle to the drainpipe to allow wastewater from the RO system to be discharged.
7. **Sanitize and Flush the System:** Before first use, follow the detailed flushing procedure in the complete installation guide to remove any manufacturing residues and air from the system.
8. **Check for Leaks:** Slowly turn on the main water supply and carefully inspect all connections for leaks.

Refer to the detailed installation guide provided with your product for specific diagrams and step-by-step instructions.

4. OPERATING INSTRUCTIONS

Once installed and flushed, your Hydrotech 4VTFC75G system operates automatically to provide purified water.

Daily Operation:

- To dispense purified water, simply lift the handle on the chrome faucet.
- The system will automatically refill the storage tank as water is used. This process may take some time depending on water pressure and tank capacity.
- It is normal for the system to produce a small amount of wastewater, which is discharged through the drain line. This is a necessary part of the reverse osmosis purification process.

5. MAINTENANCE

Regular maintenance, primarily filter replacement, is crucial for the continued efficiency and water quality of your RO system. Replacement intervals can vary based on local water quality and usage.

Filter Replacement Schedule:

Filter Type	Part Number	Recommended Replacement Interval
Sediment Pre-filter	41400008	Every 6 months
Carbon Pre-filter	41400009	Every 6-12 months
Carbon Post-filter	41400009	Every 6-12 months
RO Membrane	33001056	Every 2 years

Note: These are general guidelines. If you notice a decrease in water flow, a change in taste, or if your water quality is particularly poor, filters may need to be replaced more frequently.

Filter Replacement Procedure:

1. Shut off the cold water supply to the RO system and close the valve on the storage tank.
2. Open the RO faucet to relieve pressure.
3. Carefully unscrew the filter housings using the provided wrench.
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 oriented.
7. Screw the filter housings back on, hand-tighten, then use the wrench for a final snug turn (do not overtighten).
8. Slowly open the storage tank valve and then the cold water supply.
9. Flush the system as per initial setup instructions to remove air and carbon fines.
10. Check for leaks.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Hydrotech 4VTFC75G system.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Low Water Production / Slow Flow	Clogged filters (sediment, carbon, or RO membrane), low incoming water pressure, air in the system, or a depleted storage tank.	Check and replace clogged filters. Ensure adequate incoming water pressure. Flush the system to remove air. Allow time for the storage tank to refill.
Unpleasant Taste or Odor	Exhausted carbon filters, contaminated post-filter, or a dirty storage tank.	Replace carbon filters. Sanitize the system and storage tank if necessary.
Water Leaks	Loose fittings, damaged O-rings, cracked housing, or incorrect tubing connections.	Inspect all connections and tighten if loose. Replace damaged O-rings or components. Ensure tubing is fully inserted into quick-connect fittings.
Noisy Operation / Gurgling Sound	Air in the system, water hammer, or issues with the air gap faucet (if applicable).	Flush the system to remove air. Check for proper installation of the air gap faucet. Consult a plumber for water hammer issues.

If you are unable to resolve an issue using this guide, please contact Hydrotech customer support.

7. SPECIFICATIONS

Feature	Detail
Model Name	4VTFC75G
Brand	HydroTech
Filtration Stages	4 (Sediment, Carbon Pre-filter, RO Membrane, Carbon Post-filter)
Production Capacity	75 Gallons Per Day (GPD)
Installation Type	Under Sink
Supported Water TDS Level Maximum	500 PPM
Item Weight	21 pounds
Product Dimensions	22 x 18 x 17 inches
Included Components	RO System, Storage Tank, Faucet
Part Number	HYDROTECH-4VTFC75G

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Hydrotech 4VTFC75G Reverse Osmosis System, please refer to the documentation included with your purchase or contact Hydrotech customer support directly. Keep your proof of purchase for warranty claims.

For technical assistance, replacement parts, or further inquiries, please visit the official Hydrotech website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.