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› APEC WH-SOFTENER-30-FG Reverse Osmosis System + Water Softener Instruction Manual

APEC WATER WH-SOFTENER-30-FG

APEC WH-SOFTENER-30-FG Reverse Osmosis System + Water Softener Instruction Manual

Model: WH-SOFTENER-30-FG | Brand: APEC WATER

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your APEC WH-SOFTENER-30-FG Reverse Osmosis System and Water Softener bundle. This combined system is designed to provide both purified drinking water and softened water for your entire home, enhancing water quality and protecting plumbing and appliances from scale buildup.

PRODUCT OVERVIEW

The APEC WH-SOFTENER-30-FG bundle integrates two essential water treatment technologies: the ROES-PH75 Reverse Osmosis (RO) system and a 30,000-grain water softener. The ROES-PH75 system effectively removes up to 99% of various impurities from drinking water, including fluoride, chlorine, VOCs, PFAs, lead, arsenic, and mercury. It also includes a pH filter to reintroduce beneficial minerals and alkalinity. The water softener treats hard water throughout your home, preventing scale accumulation and corrosion, and features a microprocessor digital control valve for efficient operation.

Key Features

- **Dual System Integration:** Combines a high-performance Reverse Osmosis system (ROES-PH75) with a 30,000-grain water softener.
- **Superior Drinking Water:** ROES-PH75 removes 99% of harmful impurities and adds beneficial alkaline minerals. WQA Gold Seal certified.
- **Whole-Home Soft Water:** Delivers 100% soft, scale-free water, improving skin and hair quality and protecting appliances. Recommended for 1-3 bathrooms.
- **Enhanced Efficiency:** Reduces detergent and soap usage by up to 50% for laundry and prevents water spots on surfaces.
- **Digital Control Valve:** Microprocessor-controlled valve monitors water usage and optimizes regeneration cycles for minimal water and salt consumption.

- **Durable Construction:** Assembled in the USA with premium components for reliability and longevity.

HYDRO-EXPRESS WATER SOFTENER SYSTEM BUNDLE

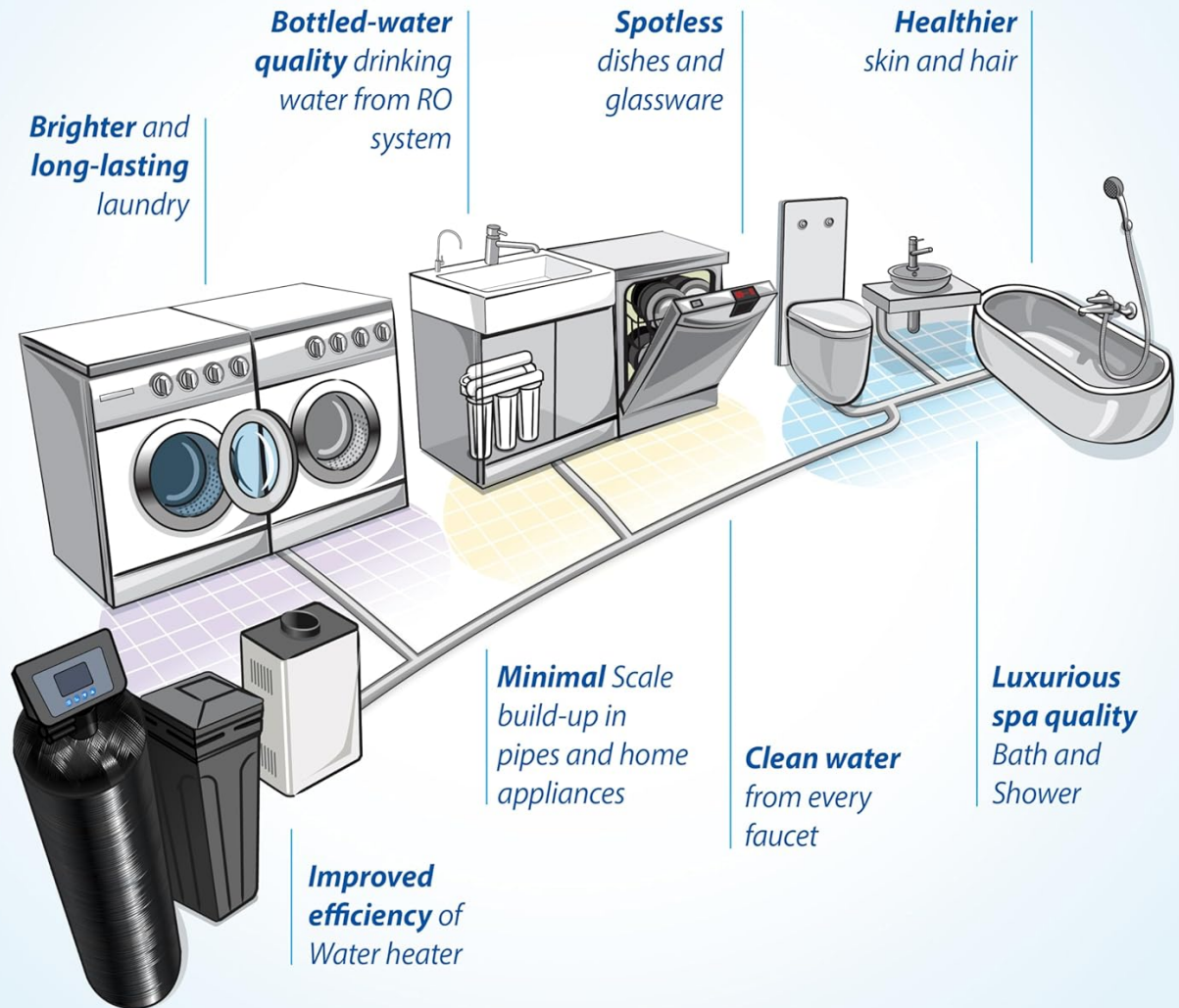


Figure 1: Overview of the APEC Water Softener and Reverse Osmosis System Bundle.

MAXIMUM PERFORMANCE

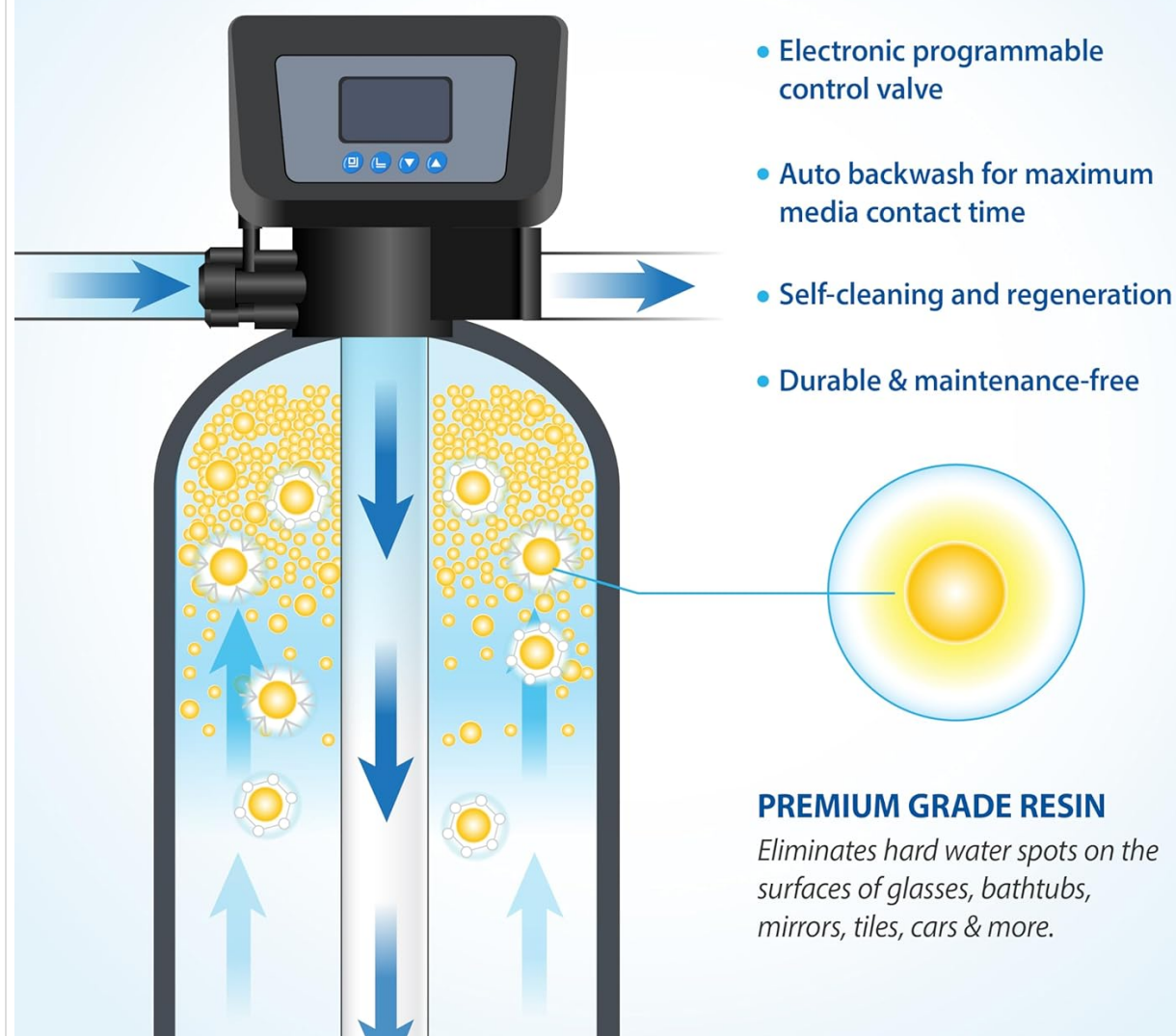


Figure 2: Water Softener Internal Operation and Control Valve.

COMPONENTS INCLUDED

The APEC WH-SOFTENER-30-FG bundle typically includes the following components:

- ROES-PH75 Reverse Osmosis System
- Complete Filter Set for ROES-PH75
- RO Storage Tank
- Water Softener Unit with Digital Control Valve
- Salt Tank (Brine Tank)
- Installation Parts & Tools
- Owner's Manual

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your APEC water treatment system. Due to the complexity of plumbing and electrical connections, professional installation by a qualified plumber is highly recommended. Always consult local plumbing codes and regulations before beginning installation.

General Installation Steps (Consult Full Manual for Details):

1. **Site Selection:** Choose a suitable location for both the RO system (typically under a kitchen sink) and the water softener (usually near the main water inlet, in a garage, basement, or utility room). Ensure adequate space for maintenance and salt replenishment.
2. **Main Water Shut-off:** Turn off the main water supply to your home before starting any plumbing work.
3. **Water Softener Installation:** Install the water softener unit and salt tank according to the detailed diagrams and instructions in the full owner's manual. This typically involves connecting to the main water line, a drain, and an electrical outlet.
4. **RO System Installation:** Install the ROES-PH75 system, including the filters, membrane, storage tank, and dedicated faucet, following the specific instructions provided for the RO unit.
5. **Leak Check:** After all connections are made and the water supply is restored, carefully check for any leaks.
6. **System Start-up:** Follow the initial start-up procedures for both the water softener (programming the digital control valve) and the RO system (flushing new filters).

WATER SOFTENER WITH SALT TANK INSTALLATION



Figure 3: Water Softener and Salt Tank Installation Diagram.

OPERATING INSTRUCTIONS

Water Softener Operation

The water softener operates automatically once programmed. The digital control valve monitors water usage and initiates regeneration cycles as needed. Refer to your full owner's manual for detailed programming instructions for the digital control valve. Key operational aspects include:

- **Initial Programming:** Set the time of day, water hardness, and regeneration time during initial setup.
- **Automatic Regeneration:** The system will automatically regenerate based on water usage or a set schedule, typically during off-peak hours.
- **Salt Level Monitoring:** Regularly check the salt level in the brine tank and replenish as needed to ensure continuous soft water supply.

Reverse Osmosis System Operation

The ROES-PH75 system provides purified water on demand through its dedicated faucet. Water flows through multiple stages of filtration, including sediment, carbon, RO membrane, and post-carbon/pH filters, before being stored in the pressure tank. Simply open the RO faucet to dispense purified water.

MAINTENANCE

Regular maintenance ensures the continued efficiency and performance of your APEC water treatment system.

Water Softener Maintenance

- **Salt Replenishment:** Check the salt level in the brine tank monthly. Keep the tank at least one-quarter full, but no more than two-thirds full, with high-quality water softener salt pellets or crystals.
- **Brine Tank Cleaning:** Periodically clean the brine tank (every few years or as needed) to remove any sludge or insoluble materials.
- **Control Valve Inspection:** Ensure the digital control valve display is functioning correctly and that regeneration cycles are occurring as programmed.

Reverse Osmosis System Maintenance

- **Pre-filter Replacement:** Replace the sediment and carbon pre-filters (Stages 1-3) every 6-12 months, depending on water quality and usage.
 - **RO Membrane Replacement:** Replace the RO membrane (Stage 4) every 2-5 years, depending on water quality and usage.
 - **Post-filter Replacement:** Replace the post-carbon and pH filters (Stages 5-6) every 2-3 years.
 - **Sanitization:** Sanitize the RO system annually during filter changes to prevent bacterial growth.
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TROUBLESHOOTING

This section addresses common issues you might encounter. For detailed troubleshooting steps, refer to the comprehensive owner's manual or contact APEC Water Systems customer support.

Common Water Softener Issues:

- **Water is not soft:** Check salt level in brine tank, ensure control valve is programmed correctly, verify regeneration cycles are occurring.
- **Excessive salt usage:** Review control valve programming for regeneration frequency and salt dose settings.
- **Water pressure drop:** Check for clogged filters (if a pre-filter is installed before the softener) or issues with the control valve.

Common RO System Issues:

- **No water from RO faucet:** Check water supply, ensure tank valve is open, verify system pressure, check for clogged filters or membrane.
 - **Slow water production:** May indicate clogged filters, a depleted RO membrane, or low incoming water pressure.
 - **Poor water taste/odor:** Replace post-carbon filter, check for expired filters, or sanitize the system.
 - **Leaking:** Immediately shut off water supply to the system. Inspect all connections and O-rings.
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SPECIFICATIONS

Feature	Specification
Brand	APEC WATER
Model Name	WH-SOFTENER-30-FG
Product Dimensions	11"L x 11"W x 54"H (Softener Unit)
Material	NSF-compliant materials
RO Capacity	75 gallons per day (ROES-PH75)
Softener Capacity	30,000 Grains
Installation Type	Permanent Installation
Purification Method	Activated Carbon, Reverse Osmosis
Power Source	Corded Electric
Operating Pressure Range	40-85 PSI
Supported Water TDS Level Maximum	500 PPM
Special Features	Heavy Duty, Programmable Digital Control Valve, Reduces TDS, Alkaline Mineral Enhancement

WARRANTY AND SUPPORT

APEC Water Systems products are designed for durability and performance. This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your system or visit the APEC Water Systems official website for specific warranty terms and conditions. For technical assistance, parts, or service, please contact APEC Water Systems customer support directly.

APEC Water Systems Contact Information: Refer to your product packaging or the official APEC Water Systems website for the most current contact details.

IMPORTANT SAFETY INFORMATION

- Always shut off the main water supply before performing any maintenance or installation.
- Ensure all electrical connections are made according to local codes and safety standards.
- Do not operate the system if any leaks are detected. Address leaks immediately.
- Use only genuine APEC replacement parts and filters to maintain system performance and warranty.
- Keep children and pets away from the system during operation and maintenance.
- Protect the system from freezing temperatures, which can cause severe damage.

PRODUCT VIDEOS

APEC Whole Home Water Softener System Overview

Your browser does not support the video tag.

This video provides an overview of the APEC Whole Home Water Softener System, demonstrating its features and benefits for household water treatment.