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Aquasana WH-SF40-BASE

Aquasana SimplySoft 40,000 Grain Water Softener Instruction Manual

Model: WH-SF40-BASE

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Aquasana SimplySoft 40,000 Grain Water Softener. This system is designed to effectively reduce hard water minerals throughout your home's water supply.



Image: The Aquasana SimplySoft 40,000 Grain Water Softener system, featuring the tall blue softener tank with a digital control head and the rectangular black brine tank.

IMPORTANT SAFETY INSTRUCTIONS

Adhere to the following safety guidelines during installation and operation to prevent injury or damage to the unit:

- Read and understand all instructions completely before attempting installation or operation.
- Ensure all plumbing connections are properly sealed and secure to prevent leaks.
- Always disconnect the power supply to the unit before performing any maintenance or service.
- Do not install the water softener in areas exposed to direct sunlight, freezing temperatures, or excessive heat.
- Comply with all applicable local plumbing and electrical codes during installation.

PACKAGE CONTENTS

The Aquasana SimplySoft 40,000 Grain Water Softener package typically includes the following components:

- Softener Tank
- Brine Tank
- Digital Control Valve
- Power Adapter
- Drain Line
- Brine Line
- Distributor Tube
- Upper and Lower Distributor Baskets

WHAT'S INCLUDED?



Image: An image displaying all components included in the Aquasana SimplySoft 40,000 Grain Water Softener package, such as the softener tank, brine tank, digital control valve, power adapter, various hoses, and small parts.

PRODUCT SPECIFICATIONS

Feature	Value
Product Dimensions (L x W x H)	30" x 16" x 43"
Item Model Number	WH-SF40-BASE
Manufacturer	Aquasana
Certifications	IAPMO certified to NSF/ANSI Standard 44 and CSA B483.1
Installation Type	Whole House Point of Entry
Power Source	Corded Electric
Lower Temperature Rating	40 Degrees Fahrenheit
Maximum Flow Rate	15.5 Gallons Per Minute
Operating Pressure Range	20-125 PSI

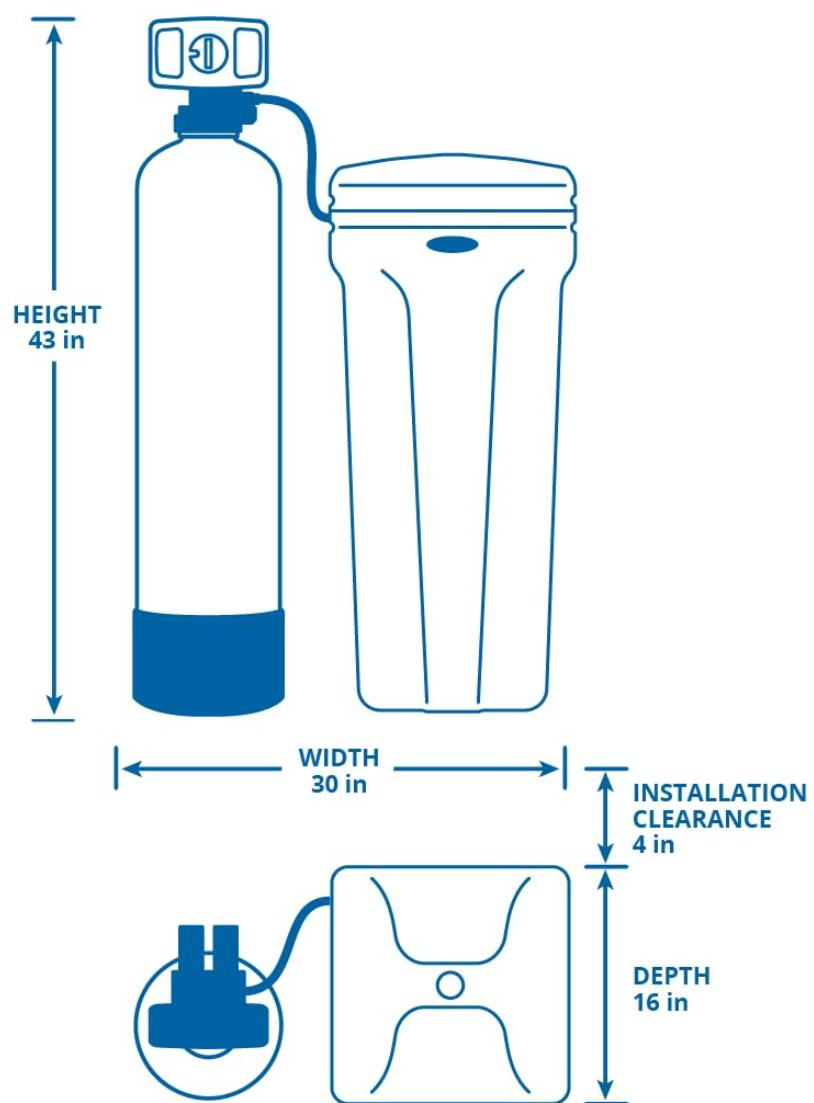


Image: A technical drawing illustrating the height (43 inches), width (30 inches), and depth (16 inches) of the Aquasana SimplySoft water softener system, including installation clearance recommendations.



Image: The IAPMO R&T Water Quality Platinum Seal, indicating certification to NSF/ANSI Standard 44 and CSA B483.1.

SETUP AND INSTALLATION

Proper installation is critical for the optimal performance of your water softener. It is recommended to consult a qualified plumber for installation.

Pre-Installation Considerations

- **Location:** Select a level location protected from freezing temperatures and direct sunlight. The area should be close to the main water line, a suitable drain, and an electrical outlet.
- **Water Supply:** The softener must be installed on the main cold water line, upstream of the water heater, to ensure all hot water is also softened.
- **Drainage:** A suitable drain is required for the regeneration process. Ensure the drain line can accommodate the specified vertical rise and horizontal distance as per the detailed manual.
- **Electrical:** A standard 120V electrical outlet is needed to power the control valve.

INSTALLATION PRO TIPS

Ensure the unit is installed **before** the water heater to soften your hot water.
Do NOT install after a water heater or on the hot water line.



Contact Aquasana Customer Support at 866-662-6885.

Image: A diagram showing that the water softener should be installed on the cold water line before the water heater to ensure all hot water is also softened. It explicitly states not to install after the water heater or on the hot water line.

Installation Steps (Summary)

The following is a summary of the installation process. Refer to the comprehensive installation manual provided with your unit for detailed, step-by-step instructions and diagrams.

- 1. Shut off Water Supply:** Turn off the main water supply to your home.
- 2. Bypass Valve Installation:** Install the bypass valve (if separate) onto the control valve.
- 3. Connect Plumbing:** Connect the main water line to the inlet and outlet ports of the bypass valve, ensuring correct flow direction.
- 4. Drain Line Connection:** Connect the drain line from the control valve to a suitable drain.
- 5. Brine Line Connection:** Connect the brine line from the control valve to the brine tank.
- 6. Add Resin and Gravel:** Follow specific instructions for adding resin and gravel to the softener tank.
- 7. Add Salt to Brine Tank:** Fill the brine tank with water softener salt.
- 8. Electrical Connection:** Plug the power adapter into the control valve and then into a grounded electrical

outlet.

9. **System Startup:** Slowly turn on the main water supply and follow the initial startup procedures outlined in the detailed manual, including flushing cycles.

Note: An optional pre-filter (Aquasana Softener Installation Kit, B0DHFMJHK6) is recommended to prevent rust, sediment, and silt from entering and clogging the softener unit, extending its lifespan and efficiency.

OPERATING INSTRUCTIONS

Control Panel Overview

The digital control panel allows for customization and monitoring of the system's operation.



Image: A close-up image of the digital control panel on the Aquasana SimplySoft water softener, showing an LCD display with 'REMAIN GAL 1075' and buttons for settings, checkmark, and up/down arrows.

- **LCD Display:** Provides information such as the current time, active regeneration modes, and the remaining gallons of softened water before the next regeneration cycle.
- **Setting Time:** Adjust the current time to ensure accurate scheduling of regeneration cycles.
- **Programming:** Input your water hardness (in grains per gallon) and the number of people in your household to optimize regeneration frequency and efficiency.
- **Regeneration Modes:** The system operates in a metered mode, initiating regeneration based on actual water usage, which is more efficient than traditional time-based systems.

How Water Softening Works

The Aquasana SimplySoft system employs an ion-exchange process to reduce hard water minerals, providing soft, scale-free water throughout your home.

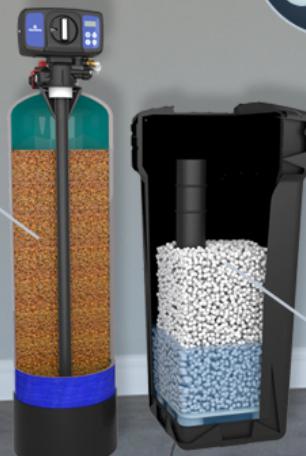


SimplySoft® Water Softener

Reduces minerals that cause hard water, providing softer, scale-free water from every tap in your home.

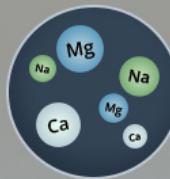
Ion-Exchange

Resin beads coated with sodium or potassium ions trap the ions of hard minerals like calcium and magnesium.



Hard Mineral Removal

Calcium and magnesium are then separated from the resin beads and flushed out through the drain during regeneration as wastewater.



Regeneration Stage

Water flows through the resin bed rinsing away trapped minerals and recharging the resin with a brine solution to replenish the resin's capacity.



Image: An animated diagram illustrating the ion-exchange process where resin beads coated with sodium/potassium ions trap calcium and magnesium. It also shows the regeneration stage where a brine solution flushes out trapped minerals.

- Ion-Exchange:** As hard water flows through the softener tank, resin beads coated with sodium or potassium ions attract and trap hard minerals such as calcium and magnesium.
- Hard Mineral Removal:** During the regeneration cycle, the trapped calcium and magnesium ions are separated from the resin beads and flushed out through the drain as wastewater.
- Regeneration Stage:** A brine solution (saltwater) flows through the resin bed, rinsing away the trapped minerals and recharging the resin with fresh sodium or potassium ions, restoring its softening capacity.

MAINTENANCE GUIDELINES

Salt Replenishment

Regularly inspect the salt level in the brine tank. It is crucial to maintain the salt level above the water line to ensure effective regeneration. Use high-quality water softener salt (pellets or crystals) for optimal performance.

Pre-Filter Replacement (If Applicable)

If an optional pre-filter is installed as part of your system, follow the manufacturer's recommendations for replacement frequency. Regular replacement of the pre-filter helps maintain optimal system performance and protects the softener from sediment and debris.

TROUBLESHOOTING COMMON ISSUES

If you encounter issues with your water softener, refer to the detailed troubleshooting section in the full product manual or contact customer support.

- No Soft Water:** Check the salt level in the brine tank, ensure the bypass valve is in the service position, and

verify the power supply to the control valve.

- **Salty Water:** This may indicate improper regeneration or issues with the brine line. Ensure initial flushing steps were followed correctly during startup.
- **Continuous Regeneration:** Review the control panel settings and water usage parameters to ensure they are configured correctly.
- **Leaks:** Inspect all plumbing connections for tightness and integrity.

For further assistance, contact Aquasana Customer Support.

WARRANTY INFORMATION AND CUSTOMER SUPPORT

The Aquasana SimplySoft 40,000 Grain Water Softener comes with a 5/10-Year Limited Warranty. Please refer to the warranty documentation for specific terms and conditions.

For customer service and installation support, please call **866-662-6885**.

You can also visit the official Aquasana website for additional resources and support: www.aquasana.com.

Related Documents - WH-SF40-BASE

	<p><u>Aquasana SimplySoft™ Whole House Water Softener Owner's Manual: WH-SF40 & WH-SF60</u></p> <p>Comprehensive owner's manual for Aquasana SimplySoft™ Whole House Water Softeners (models WH-SF40 and WH-SF60), covering installation, system maintenance, troubleshooting, and warranty information for reducing hard water minerals.</p>
	<p><u>Aquasana SimplySoft Whole House Water Softener Owner's Manual</u></p> <p>This owner's manual provides comprehensive instructions for the Aquasana SimplySoft Whole House Water Softener (models WH-SF40 and WH-SF60), covering installation, system configuration, maintenance, troubleshooting, performance data, and warranty information.</p>
	<p><u>Aquasana SimplySoft® Whole House Water Softener Owner's Manual</u></p> <p>This owner's manual provides comprehensive instructions for installing, operating, and maintaining the Aquasana SimplySoft® Whole House Water Softener (models WH-SF40 and WH-SF60). Learn about system configuration, troubleshooting, and performance specifications for optimal water softening.</p>

	<p><u>Aquasana SimplySoft Water Softener 5/10 Year Limited Warranty</u></p> <p>Detailed warranty information for Aquasana SimplySoft 40,000 & 60,000 Grain Water Softeners, covering terms, coverage, exclusions, and service procedures.</p>
	<p><u>Aquasana SimplySoft Water Softener 5/10 Year Limited Warranty</u></p> <p>This document outlines the limited warranty for Aquasana SimplySoft 40,000 and 60,000 Grain Water Softeners, covering defects in materials and workmanship for the control valve, pressure tank, and brine tank. It details what is covered, what is not covered, warranty periods, and how to obtain service.</p>
	<p><u>Aquasana Rhino Water Filter Limited Warranty and Coverage</u></p> <p>Detailed limited warranty information for the Aquasana Rhino Whole House Water Filter System, covering coverage, exclusions, and service procedures.</p>