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STAR WATER SYSTEMS S07FS32DR

STAR WATER SYSTEMS S07FS32DR Water Softener User Manual

INTRODUCTION

This manual provides comprehensive instructions for the STAR WATER SYSTEMS S07FS32DR Water Softener. It covers essential information regarding the installation, operation, maintenance, and troubleshooting of your water softener to ensure optimal performance and longevity. Please read this manual thoroughly before installation and use.

The S07FS32DR model features a 32,000 grain removal capacity and can handle up to 100 grains per gallon maximum hardness. It is also designed to remove up to 4 parts per million (ppm) of clear water iron. The demand regeneration control system is engineered to reduce salt consumption by up to 50% and uses significantly less water by initiating regeneration only when necessary.

PRODUCT OVERVIEW



Figure 1: An image of the STAR WATER SYSTEMS S07FS32DR Water Softener unit, showing its main components.

The STAR WATER SYSTEMS S07FS32DR Water Softener is designed to provide softened water for your home. Key components include the mineral tank, which houses the resin beads responsible for ion exchange, and the brine tank, which holds the salt solution used for regeneration. A brass bypass valve is included for easy installation and maintenance, allowing you to bypass the softener when needed without interrupting your home's water supply.

SETUP AND INSTALLATION

Proper installation is crucial for the efficient operation of your water softener. It is recommended that installation be performed by a qualified plumber.

Component Dimensions:

- **Mineral Tank:** 9 inches (diameter) x 48 inches (height)
- **Brine Tank:** 14 inches (length) x 14 inches (width) x 34 inches (height)

The brine tank is designed to hold up to 225 pounds of salt. Ensure adequate space is available for both tanks and for future salt replenishment.

Bypass Valve:

The system includes a brass bypass valve. This valve allows for easy isolation of the softener for service or if untreated water is temporarily desired. Refer to the separate bypass valve instructions for detailed connection procedures.

Plumbing Connections:

Connect the water softener to your main water line according to local plumbing codes. Ensure all connections are secure and leak-free. The inlet and outlet ports are typically marked on the valve head.

OPERATING INSTRUCTIONS

The S07FS32DR water softener operates automatically once properly configured. The demand regeneration control system monitors water usage and regenerates only when necessary, optimizing efficiency.

Initial Startup:

1. After installation, slowly open the bypass valve to allow water to fill the mineral tank.
2. Check for leaks at all connections.
3. Initiate a manual regeneration cycle as per the control valve's specific instructions to flush the system and prepare the resin.

Regeneration Cycle:

The demand regeneration control system automatically initiates a regeneration cycle based on water usage. A typical backwash cycle lasts approximately 50-60 minutes and uses about 68 gallons of water per regeneration. During regeneration, softened water will not be available, or the system may temporarily provide unsoftened water if the bypass valve is not fully closed.

Water Hardness and Iron Removal:

The system is designed to remove up to 32,000 grains of hardness and up to 4 ppm of clear water iron. Regular water testing can help confirm the system's effectiveness and indicate if adjustments or maintenance are needed.

MAINTENANCE

Regular maintenance ensures the continued efficiency and performance of your water softener.

Salt Level Monitoring:

Periodically check the salt level in the brine tank. The brine tank can hold up to 225 pounds of salt. Maintain the salt level above the water line, ensuring there is always enough salt for the next regeneration cycle. Use high-quality water softener salt (pellets or crystals) for best results.

Cleaning:

Keep the exterior of the softener clean. Occasionally inspect the brine tank for salt bridges or excessive sediment, and clean as necessary.

TROUBLESHOOTING

If you encounter issues with your water softener, consider the following general troubleshooting steps:

- **No Soft Water:** Check salt level in the brine tank. Ensure the bypass valve is in the correct operating position. Verify the control valve settings and ensure a regeneration cycle has completed.
- **Excessive Salt Usage:** Confirm the demand regeneration settings are appropriate for your water usage and hardness.
- **Leaks:** Inspect all plumbing connections. Tighten any loose fittings.

For persistent issues or complex problems, it is recommended to contact a qualified service technician or STAR WATER SYSTEMS customer support.

SPECIFICATIONS

Specification	Value
Manufacturer	STAR WATER SYSTEMS
Part Number	S07FS32DR
Item Weight	87 pounds
Product Dimensions	18 x 49 x 28 inches
Item Model Number	S07FS32DR
Material	Brass (for included bypass valve)
Item Package Quantity	1
Included Components	Water softener unit, brass bypass valve
Batteries Required?	No
Grain Removal Capacity	32,000 grains
Maximum Hardness	100 grains per gallon
Iron Removal	Up to 4 ppm (clear water iron)
Regeneration Type	Demand Regeneration Control
Backwash Duration	50-60 minutes

Specification	Value
Water Usage per Regeneration	Approximately 68 gallons

WARRANTY INFORMATION

The STAR WATER SYSTEMS S07FS32DR Water Softener comes with the following limited warranties:

- **Valve Head:** 3-year limited warranty
- **Mineral Tank:** 10-year limited warranty

Please retain your proof of purchase for warranty claims. For full details on warranty terms and conditions, refer to the warranty card included with your product or contact STAR WATER SYSTEMS customer service.

CUSTOMER SUPPORT

For technical assistance, parts, or warranty inquiries, please contact STAR WATER SYSTEMS customer support. Have your model number (S07FS32DR) and date of purchase ready when contacting support.

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Contact information typically found on the manufacturer's website or product packaging.