DuraWater 48k-56sxt-10-1

DuraWater Fleck 9100 SXT Twin Tank Water Softener User Manual

Model: 48k-56sxt-10-1

Introduction

This manual provides essential information for the installation, operation, and maintenance of your DuraWater Fleck 9100 SXT Twin Tank Water Softener. Please read these instructions carefully before proceeding with installation or use to ensure proper function and longevity of your system. This system is designed to provide continuous soft water for your household.

Product Overview

The DuraWater Fleck 9100 SXT Twin Tank Water Softener is an advanced system designed to deliver a continuous supply of soft water. It features a metered on-demand regeneration process, ensuring efficiency and consistent performance.

Key Features:

- **Continuous Soft Water:** The twin-tank design ensures that one tank is always in service while the other regenerates, providing uninterrupted soft water.
- **Fleck 9100 SXT Valve:** Equipped with the reliable Fleck 9100 SXT control valve for efficient and automated operation.
- **Metered On-Demand Regeneration:** Regenerates based on actual water usage, optimizing salt and water consumption.
- **Pre-Loaded Resin:** Resin is shipped loaded in the tanks for easier installation.
- **Durable Construction:** Features USA black mineral tanks.
- **Bypass Valve:** Includes a free bypass valve with a male threaded yoke for convenient installation.

How the Twin-Tank Softener Works:

Hard water enters the tank currently in service. As it flows through the resin bed, hard water ions (calcium and magnesium) are attracted to the resin beads, effectively removing them from the water. By the time the water exits the tank, it is softened.

Regeneration Process:

When the resin in one tank becomes saturated with hard water ions, the Fleck 9100 SXT valve automatically initiates a regeneration cycle for that tank. During regeneration, brine (saltwater) is drawn from the brine tank and flushed through the resin bed. This process rinses the hard water ions off the resin and down the drain. Once the resin is free of these ions, fresh, soft water backwashes any remaining brine out, leaving the tank ready for service. Meanwhile, the second tank continues to supply

soft water to your home.



Image: Complete DuraWater Fleck 9100 SXT Twin Tank Water Softener system, showing two mineral tanks, the control valve, and the brine tank.



Image: Close-up view of the Fleck 9100 SXT control valve head, which manages the water softening and regeneration cycles.

Setup and Installation

Proper installation is crucial for the optimal performance of your water softener. It is highly recommended that installation be performed by a qualified plumber or water treatment professional.

Pre-Installation Checks:

- **Location:** Choose a dry, level location near the main water supply line, a drain, and an electrical outlet. Avoid locations where the softener could freeze.
- **Water Pressure:** Ensure your home's water pressure is within the recommended operating range for the system.
- **Water Hardness:** Test your incoming water hardness to properly program the control valve.

Installation Steps (General Guidance):

1. **Shut Off Water:** Turn off the main water supply to your home.
2. **Install Bypass Valve:** The system includes a bypass valve with a male threaded yoke. Install this valve into your main water line according to the plumbing diagram. This allows you to bypass the softener for maintenance without shutting off water to your home.
3. **Connect Tanks:** Position the two mineral tanks and the brine tank. Connect the mineral tanks to the Fleck 9100 SXT control valve.
4. **Plumbing Connections:** Connect the inlet and outlet plumbing to the bypass valve. Ensure all connections are secure and leak-free.
5. **Drain Line:** Connect the drain line from the control valve to an appropriate drain (e.g., floor drain, utility sink). Ensure there is an air gap to prevent back-siphonage.
6. **Brine Line:** Connect the brine line from the control valve to the brine well in the brine tank.
7. **Electrical Connection:** Plug the power adapter into a grounded electrical outlet.
8. **Initial Startup:** Slowly open the main water supply and check for leaks. Follow the control valve's specific instructions for initial startup and programming.

Note: The resin is shipped pre-loaded in the USA black mineral tanks, simplifying a portion of the setup process.



Image: Components of a water softener bypass valve, essential for isolating the system during maintenance.

Operating Instructions

The Fleck 9100 SXT control valve automates the water softening process. Once properly programmed, the system will operate efficiently with minimal user intervention.

Control Valve Programming:

- **Set Time of Day:** Ensure the correct time is set on the control valve.
- **Water Hardness Setting:** Input your tested water hardness level into the control valve. This is critical for accurate metered regeneration.
- **Regeneration Time:** Set the desired time for regeneration, typically during periods of low water usage (e.g., 2:00 AM).
- **Salt Dose:** The system will automatically calculate the optimal salt dose based on your hardness settings and water usage.

Refer to the specific Fleck 9100 SXT control valve manual for detailed programming instructions. The system uses a turbine meter with a cable to accurately measure water usage and initiate regeneration only when necessary.

Bypass Valve Operation:

- **Service Position:** For normal operation, ensure the bypass valve is in the "service" position, allowing water to flow through the softener.
- **Bypass Position:** To bypass the softener (e.g., for outdoor watering or maintenance), move the valve to the "bypass" position. This will supply untreated water to your home.

Maintenance

Regular maintenance ensures the continued efficiency and longevity of your DuraWater Fleck 9100 SXT water softener.

Salt Level Monitoring:

- **Check Regularly:** Periodically check the salt level in the brine tank. It should always be at least one-quarter full, and ideally, half-full.
- **Add Salt:** Use high-quality water softener salt (pellets, cubes, or solar salt). Do not use rock salt or ice melt.
- **Avoid Bridging:** Ensure salt does not form a "bridge" or crust over the water level, which can prevent brine from forming. Break up any bridges with a broom handle or similar tool.

Brine Tank Cleaning:

It is recommended to clean the brine tank annually or as needed to remove any sediment or insoluble materials from the salt.

1. Bypass the water softener.
2. Remove all salt and any remaining water from the brine tank.
3. Clean the inside of the tank with a mild detergent and rinse thoroughly.
4. Replace the brine well and refill with salt.
5. Return the softener to service.

Water Testing:

Periodically test your softened water to ensure the system is operating effectively. If you notice a return of hard water symptoms, it may indicate a need for system adjustment or troubleshooting.



Image: The Fleck 9100 SXT control head, which manages the regeneration cycles and displays system status.

TROUBLESHOOTING

If you experience issues with your water softener, consult this section for common problems and solutions. For complex issues, contact a qualified service technician.

No Soft Water:

- **Bypass Valve:** Ensure the bypass valve is in the "service" position.
- **Salt Level:** Check the salt level in the brine tank. Refill if low and ensure no salt bridge has formed.
- **Power:** Verify the unit is plugged in and receiving power. Check for tripped circuit breakers.
- **Programming:** Confirm the control valve is programmed correctly, especially the water hardness setting.
- **Regeneration Cycle:** Manually initiate a regeneration cycle to see if the system responds.

Low Water Pressure:

- **Bypass Valve:** Check if the bypass valve is partially closed or in the wrong position.
- **Sediment Filter:** If a pre-filter is installed, check if it is clogged and needs replacement.
- **Plumbing:** Inspect plumbing connections for any obstructions or kinks.

Excessive Salt Usage:

- **Hardness Setting:** Verify the water hardness setting on the control valve is accurate. An excessively high setting will cause more frequent regenerations.
- **Leak:** Check for leaks in the brine line or drain line.

Specifications

Detailed specifications for the DuraWater Fleck 9100 SXT Twin Tank Water Softener.

Manufacturer	Fleck
Part Number	48k-56sxt-10-1
Item Weight	95 pounds
Product Dimensions	10 x 10 x 54 inches (per tank, approximate)
Item Model Number	48k-56sxt-10-1
Color	Black
Item Package Quantity	1 (complete system)
Included Components	Complete system (control valve, two mineral tanks, brine tank, bypass valve)

Warranty and Support

For specific warranty details, please refer to the documentation provided with your purchase or contact DuraWater customer support. For technical assistance or service inquiries, please reach out to the retailer or manufacturer directly.
Customer Support: Please contact Aplus Water LLC for support related to this product, as indicated by the seller information.

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