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DuraWater 9100sxt

DuraWater Fleck 9100 SXT Metered Dual Tank Water Softener User Manual

Model: 9100 SXT (32,000 Grain)

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the DuraWater Fleck 9100 SXT Metered Dual Tank Water Softener. This system is designed to provide continuous soft water for residential applications by utilizing two mineral tanks that regenerate independently.

2. Safety Information

- Read all instructions before installing or operating the system.
- Ensure all plumbing connections are secure to prevent leaks. Avoid overtightening plastic fittings.
- The system operates under water pressure. Turn off the main water supply before performing any installation or maintenance.
- Use appropriate tools and safety gear during installation.
- Ensure the electrical supply to the control valve is disconnected before servicing.

3. Components Overview

The Fleck 9100 SXT system includes the following main components:

- **Fleck 9100 SXT Digital Metered Control Valve:** Manages the water softening and regeneration cycles.
- **Mineral Tanks (x2):** Contain the resin media responsible for softening water.
- **Brine Tank:** Holds salt or potassium chloride for the regeneration process.
- **1-inch Noryl Plastic Bypass Valve:** Allows for isolation of the softener for maintenance without interrupting household water supply.



Figure 3.1: DuraWater Fleck 9100 SXT Dual Tank Water Softener System



Figure 3.2: Fleck 9100 SXT Digital Metered Control Valve



Figure 3.3: 1-inch Noryl Plastic Bypass Valve



Figure 3.4: Black Brine Tank

4. Setup and Installation

4.1 Pre-Installation Checks

- **Location:** Choose a dry, level area near a drain and power outlet, protected from freezing temperatures and direct sunlight.
- **Water Supply:** Ensure the main water supply can be shut off.
- **Drain:** A suitable drain for the regeneration discharge is required.
- **Tools:** Gather necessary plumbing tools, pipe sealant, and measuring tape.

4.2 Connecting the Bypass Valve

The included 1-inch Noryl plastic bypass valve allows you to isolate the softener for maintenance. Connect the bypass valve to the inlet and outlet ports of the control valve. Ensure the flow direction is correct (inlet to the 'IN' side, outlet to the 'OUT' side). **Do not overtighten plastic fittings** to prevent damage and leaks.

4.3 Mineral Tank and Brine Tank Placement

Position the two mineral tanks and the brine tank in their desired locations. Ensure sufficient space for future maintenance and salt replenishment. Connect the control valve to the top of the mineral tanks. The brine tank connects to the control valve via a brine line.

4.4 Plumbing Connections

- Connect the main water supply to the inlet of the bypass valve.
- Connect the softened water outlet from the bypass valve to your household plumbing.
- Connect the drain line from the control valve to a suitable drain. Ensure an air gap is maintained to prevent back-siphonage.
- Connect the brine line from the brine tank to the control valve.

4.5 Adding Salt/Potassium

Fill the brine tank with water softener salt (sodium chloride) or potassium chloride pellets. Maintain the salt level above the water level in the brine tank for optimal performance.

4.6 Initial Startup

- Slowly open the main water supply and check for leaks.
- Plug in the control valve. The display will illuminate.
- Follow the control valve's programming instructions to set the time, water hardness, and regeneration schedule. Refer to the detailed programming guide for the Fleck SXT controller.
- Initiate a manual regeneration cycle to flush the system and prepare the resin.

5. Operation

5.1 Fleck 9100 SXT Control Valve

The Fleck 9100 SXT control valve is a digital metered valve that measures water usage and initiates regeneration only when necessary. This optimizes salt and water efficiency.



Figure 5.1: Turbine Meter, part of the metered control valve

5.2 Programming

The SXT controller features a digital display and buttons for setting parameters. Key settings include:

- **Time of Day:** Set the current time.
- **Water Hardness:** Input your water's hardness level (grains per gallon).
- **Regeneration Time:** Typically set for late night/early morning hours when water usage is low.
- **Regeneration Type:** The 9100 SXT uses metered regeneration, meaning it regenerates based on actual water usage.

Detailed programming instructions are available in the separate Fleck SXT controller manual or through online video tutorials.

5.3 Dual Tank Advantage

The dual tank design ensures a continuous supply of soft water. While one tank is in service, the other is either in standby or undergoing regeneration. This eliminates periods of hard water, even during regeneration cycles.

6. Maintenance

6.1 Salt/Potassium Levels

Regularly check the salt or potassium chloride level in the brine tank. Refill when the level drops below one-quarter full or below the water level. Using potassium chloride instead of salt may require adjustments to regeneration settings; consult support for guidance.

6.2 Brine Tank Cleaning

Periodically inspect the brine tank for salt bridging or mushing at the bottom. If present, remove the salt and clean the tank. This typically involves draining the tank, removing any residue, and refilling with fresh salt.

6.3 System Checks

Annually inspect all plumbing connections for signs of leaks. Ensure the bypass valve operates smoothly. Test your water hardness periodically to confirm the system is functioning effectively.

7. Troubleshooting

This section addresses common issues. For complex problems or error codes not listed, contact customer support.

Problem	Possible Cause	Solution
No soft water	Low salt in brine tank Bypass valve in bypass position Incorrect programming Resin bed exhausted or fouled	Add salt to brine tank Return bypass valve to service position Verify hardness and regeneration settings Contact support for resin evaluation
System leaks	Loose connections Damaged O-rings Overtightened plastic fittings	Check and tighten connections (do not overtighten plastic) Inspect and replace O-rings if damaged Ensure proper torque on all fittings
Excessive salt usage	Incorrect hardness setting Regeneration frequency too high	Verify and adjust water hardness setting Review and adjust regeneration schedule

Problem	Possible Cause	Solution
Error Code 3 (or similar)	Control valve malfunction Sensor issue	Refer to the Fleck SXT controller manual for specific error code definitions. If unresolved, contact customer support.

8. Specifications

Feature	Detail
Model	Fleck 9100 SXT
Grain Capacity	32,000 Grain
Control Valve	Fleck 9100 SXT Digital Metered
Manufacturer	Pentair
Part Number	9100sxt
Item Weight (approx.)	170 pounds (for main components)
Product Dimensions (approx.)	9 x 9 x 48 inches (per mineral tank)
Color	Black
Material	Plastic or Metal
Included Components	Water softener system (control valve, mineral tanks, brine tank, bypass valve)
UPC	680196670654

9. Warranty and Support

9.1 Warranty Information

For specific warranty details regarding your DuraWater Fleck 9100 SXT water softener, please refer to the documentation provided at the time of purchase or contact DuraWater customer support directly. Warranty coverage typically includes defects in materials and workmanship for a specified period.

9.2 Customer Support

If you require assistance with installation, programming, troubleshooting, or have questions about your system, please contact DuraWater customer support. Toll-free support is available to assist you.

- **Contact:** Refer to your purchase documentation for the most current contact information.
- **Online Resources:** Additional support and video tutorials may be available on the DuraWater website or through authorized dealers like Aplus Water LLC.



Figure 9.1: Customer Support Representative

Figure 9.2: Aplus Water LLC True Blue Dealer Tag

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