

AFWFilters AIS10-25SXT

AFWFilters AIS10-25SXT Air Injection Water Filter User Manual

Model: AIS10-25SXT

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your AFWFilters AIS10-25SXT Air Injection Water Filter. This system is designed to effectively remove iron, sulfur, and manganese from your water supply, improving water quality throughout your home. Please read this manual thoroughly before proceeding with installation or operation to ensure proper function and longevity of your unit.

2. SAFETY INFORMATION

- Always disconnect power to the unit before performing any maintenance or service.
- Ensure all plumbing connections are secure to prevent leaks.
- Do not operate the system outside of its specified temperature and pressure ranges.
- Keep the unit away from direct sunlight and freezing temperatures.
- If you are unsure about any installation or maintenance step, consult a qualified professional.

3. PRODUCT OVERVIEW

The AFWFilters AIS10-25SXT is an advanced air injection system that utilizes oxidation to treat water without the need for chemical additives. It is designed for whole-house filtration, targeting common water issues such as iron stains, sulfur odors, and manganese buildup.

3.1 How the System Works

The system operates by creating a pocket of pressurized air at the top of the tank. As water enters the tank, it comes into contact with this air, causing iron, sulfur, and manganese to oxidize. These oxidized particles are then trapped by the specialized filtration media within the tank. During the automatic backwash cycle, the trapped impurities are flushed out of the system, and the air pocket is replenished, preparing the system for the next filtration cycle.

3.2 Key Components

- **Control Head:** Manages the system's operation, including filtration and backwash cycles. It features a programmable display.
- **Mineral Tank:** Houses the filtration media and the air pocket for oxidation.
- **Filtration Media:** Specialized media designed to capture oxidized contaminants.
- **Riser Tube and Deflector:** Internal components that facilitate water flow and air injection.
- **Stainless Steel Bypass Valve:** Allows for easy isolation of the filter for maintenance without interrupting the main water supply.



Figure 1: The complete AFWFilters AIS10-25SXT Air Injection Water Filter system, showing the mineral tank and the control head mounted on top.



Figure 2: Close-up view of the AFWFilters AIS10-25SXT control head, featuring the brand logo and digital display for programming and monitoring.

4. SETUP AND INSTALLATION

The AFWFilters AIS10-25SXT system is designed for straightforward installation. However, if you are not experienced with plumbing, professional installation is recommended. The system typically ships with media pre-installed, simplifying the setup process.

4.1 Pre-Installation Steps

1. **Location Selection:** Choose a suitable location for the filter, preferably near the main water line entry point, protected from freezing temperatures and direct sunlight. Ensure adequate space for maintenance.
2. **Water Shut-off:** Turn off the main water supply to your home.
3. **Depressurize System:** Open a faucet at the lowest point in your home to drain water and relieve pressure.

4.2 Plumbing Connections

4. **Install Bypass Valve:** Connect the stainless steel bypass valve to the control head. Ensure the arrows on the valve indicate the correct direction of water flow.
5. **Connect to Main Line:** Plumb the bypass valve into your main water line. Use appropriate fittings and ensure all connections are watertight.

6. **Drain Line Connection:** Connect a drain line from the control head to a suitable drain, ensuring it is properly secured and allows for adequate flow during backwash.



Figure 3: The stainless steel bypass valve, an essential component for isolating the filter during maintenance or service.

4.3 Initial Startup

7. **Slowly Open Water Supply:** Gradually open the main water supply valve to allow water to fill the filter tank. Check for leaks.
8. **Purge Air:** Open a nearby cold water faucet to purge air from the system until water flows steadily.
9. **Power On:** Plug in the control head. Refer to the control head manual for initial programming, including setting the time and regeneration cycles.
10. **Initiate Manual Regeneration:** Perform a manual regeneration cycle to thoroughly rinse the media and establish the air pocket.

Note: It is normal for water to appear cloudy or milky during initial operation due to the presence of tiny air bubbles. This will clear as the system settles.

5. OPERATING INSTRUCTIONS

Once installed and programmed, the AFWFilters AIS10-25SXT operates automatically. The control head manages the filtration and backwash cycles based on your programmed settings.

5.1 Control Head Programming

The control head allows you to set the time of day and the frequency of backwash cycles. Optimal settings depend on your water usage and water quality. Consult the specific control head manual for detailed programming instructions. Ensure the backwash duration is sufficient for your water conditions; a longer duration may be necessary for heavily contaminated water.

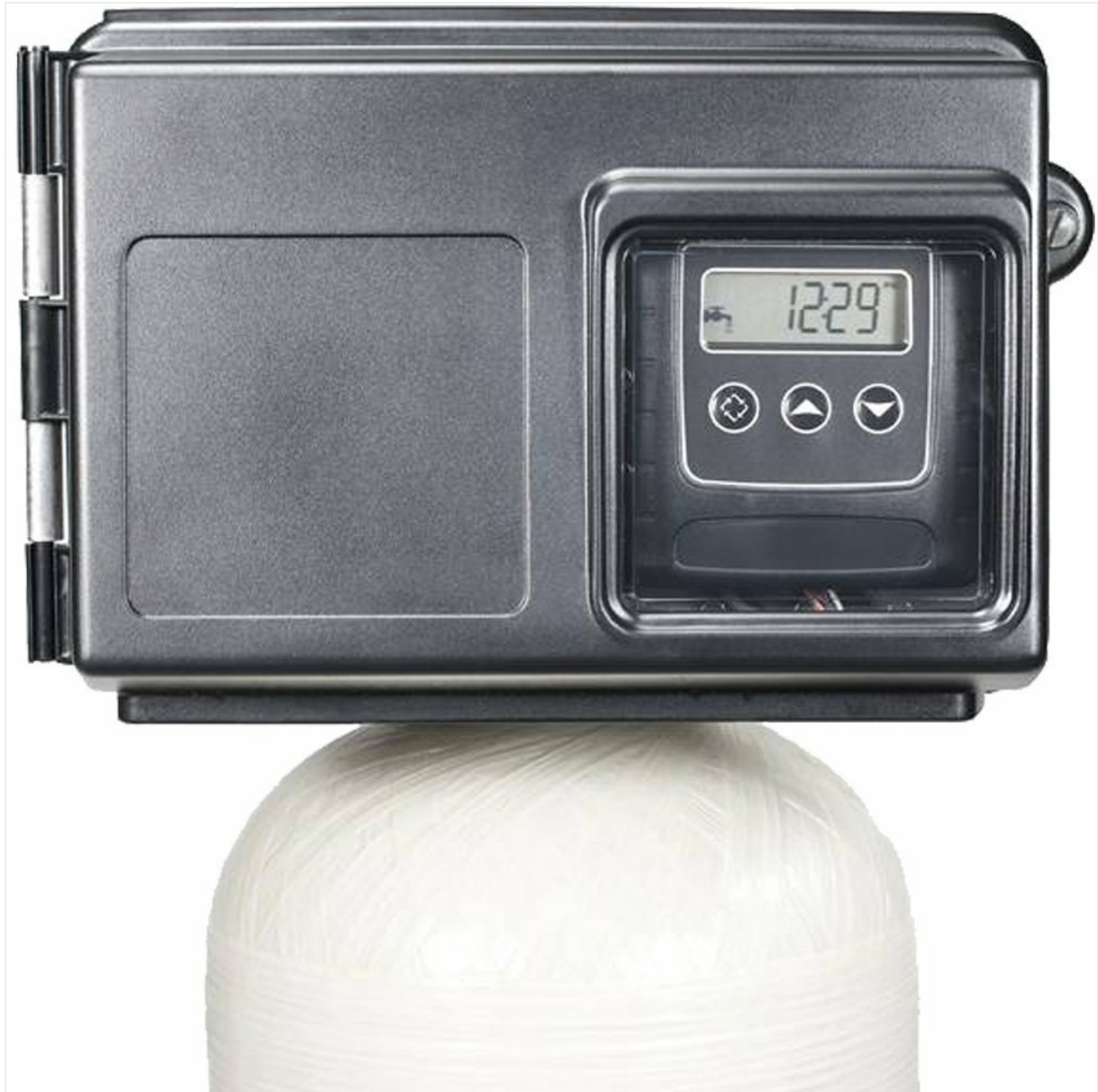


Figure 4: The digital display on the control head, showing current time and operational status. This interface is used for programming and monitoring.

5.2 Automatic Backwash Cycle

The system will automatically initiate a backwash cycle at the programmed time. During this cycle, water flow is reversed to flush trapped impurities from the media and down the drain. Simultaneously, the air pocket within the tank is replenished. It is important not to use water during the backwash cycle to ensure proper regeneration.

6. MAINTENANCE

The AFWFilters AIS10-25SXT is designed for low maintenance. Regular checks and timely media replacement will ensure optimal performance.

6.1 Media Replacement

The filtration media typically requires replacement every 5 to 6 years, depending on water quality and usage.

Refer to the control head manual or contact AFWFilters support for specific instructions on media replacement.

6.2 General Care

- Keep the exterior of the unit clean.
- Periodically check for any leaks around plumbing connections.
- Ensure the drain line is clear and unobstructed.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your AFWFilters AIS10-25SXT system.

Problem	Possible Cause	Solution
Water is cloudy or milky.	Air bubbles in the water from the air injection process.	This is normal, especially after installation or regeneration. The bubbles will dissipate quickly.
Persistent iron stains, sulfur odor, or manganese.	Insufficient backwash duration. Incorrect control head settings (e.g., valve type). Media exhaustion. High levels of contaminants exceeding system capacity.	Increase backwash duration in control head settings. Verify control head valve type setting is correct (ensure "Air Draw" or "brine draw" options are available if applicable to your specific control head model). Consider media replacement if it's past its service life. Contact AFWFilters support for water testing and system evaluation.
System not regenerating.	Power outage or disconnected power. Control head malfunction.	Check power connection and circuit breaker. Refer to the control head manual for error codes or reset procedures. Contact AFWFilters support if the issue persists.

8. SPECIFICATIONS

Feature	Detail
Model Name	AIS10-25SXT
Brand	AFWFilters
Product Dimensions	10"L x 10"W x 62"H
Power Source	Air Powered (Control Head requires electrical power)
Installation Type	Fixed
Upper Temperature Rating	120°F (49°C)
Supported Water TDS Level Maximum	1500 PPM
Special Feature	Programmable Control Head



Feature	Detail
UPC	729440633011

9. WARRANTY AND SUPPORT

AFWFilters has over 35 years of experience in water filtration. For specific warranty details, technical assistance, or to purchase replacement parts, please contact AFWFilters directly. Their contact information can typically be found on their official website or through your purchase documentation.

When contacting support, please have your model number (AIS10-25SXT) and date of purchase readily available.

Related Documents - AIS10-25SXT

	<p>AFWFilters Water Softener Installation Instructions: Fleck 5600 and 5600SXT</p> <p>Comprehensive installation guide for AFWFilters water softeners featuring Fleck 5600 and 5600SXT control heads. Covers system requirements, component identification, pre-installation preparation, control head attachment, brine tank setup, plumbing guidelines, and troubleshooting.</p>
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