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› AFWFilters Pentair 10x54 Inch Mineral Resin Tank Instruction Manual

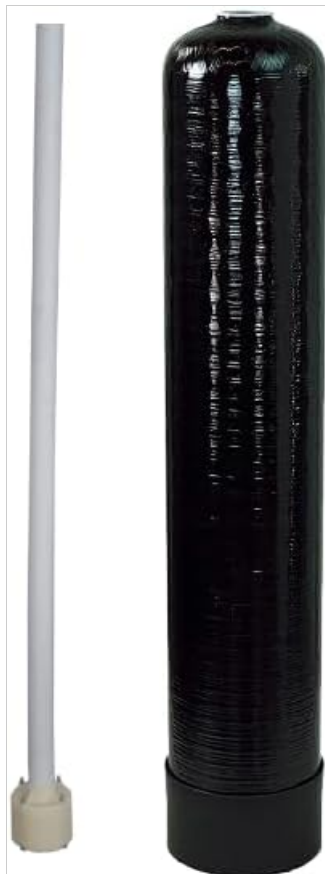
AFWFilters MNRL-1054-riser

AFWFilters Pentair 10x54 Inch Mineral Resin Tank Instruction Manual

Model: MNRL-1054-riser

1. PRODUCT OVERVIEW

This manual provides instructions for the AFWFilters Pentair 10x54 inch Mineral Resin Tank. This tank is designed for use in standard 1.5 cubic foot filter or water softener systems. It features a 10-inch diameter, 54-inch height, and a 2.5-inch threaded opening compatible with standard control heads. A riser tube is included with the tank.



2. KEY FEATURES AND CONSTRUCTION

- **Dimensions:** 10 inches in diameter and 54 inches in height.
- **Opening:** Equipped with a 2.5-inch threaded opening for standard control valve compatibility.
- **Riser Tube:** A riser distributor tube is included for proper media distribution.
- **Material:** Constructed from structural Polyglass Resin, manufactured by Pentair.
- **Liner:** Features a one-piece, seamless high-density polyethylene liner.
- **Inlet:** Designed with an encapsulated, leak-free engineered polymer inlet.
- **Durability:** Engineered for strength and long-term performance.



Image 2.1: Internal construction and components. This image illustrates the internal structure of the resin tanks, including the riser tube, highlighting the durable liner and polymer inlet.

3. SETUP AND INSTALLATION

This tank is provided empty, ready for the addition of filter media or softener resin and a control valve. Proper installation is crucial for optimal performance.

3.1 Unpacking

- Carefully remove the tank and riser tube from the packaging.
- Inspect all components for any signs of damage during shipping. Contact customer support immediately if damage is found.

3.2 Media Loading

1. Ensure the riser tube is properly seated at the bottom of the tank.

2. Cover the top of the riser tube to prevent media from entering it during loading. A funnel (such as the one shown in Image 3.1) can assist in clean media loading.
3. Slowly add the appropriate filter media or softener resin into the tank. Refer to your specific media's instructions for quantity and type.
4. Once media is loaded, remove the cover from the riser tube.



Image 3.1: Media loading accessories. This image displays bags of resin and a funnel, illustrating tools that can be used for adding media to the tank.

3.3 Control Valve Attachment

- Carefully align the control valve with the 2.5-inch threaded opening of the tank and the top of the riser tube.
- Thread the control valve onto the tank opening, ensuring a secure and watertight seal. Do not overtighten.
- Refer to your control valve's specific installation instructions for detailed steps and torque specifications.

4. OPERATING GUIDELINES

Once the tank is filled with media and the control valve is installed, the system is ready for operation. The operation of the water treatment system is primarily controlled by the attached control valve.

- Follow the operating instructions provided with your specific control valve for initial startup, backwashing, regeneration cycles, and service flow rates.
- Ensure all plumbing connections are secure and leak-free before introducing water pressure to the system.
- Monitor the system for proper function and water quality as per your water treatment goals.

5. MAINTENANCE

The Pentair mineral resin tank itself requires minimal maintenance. The primary maintenance tasks will involve the media inside the tank and the control valve.

- **Media Replacement:** The lifespan of filter media or softener resin varies depending on water quality and usage. Consult your media's manufacturer guidelines for recommended replacement schedules.
- **Control Valve Maintenance:** Adhere to the maintenance schedule and procedures outlined in your control valve's instruction manual. This may include cleaning, lubrication, or replacement of specific components.
- **Tank Inspection:** Periodically inspect the exterior of the tank for any signs of physical damage, cracks, or leaks. While the tank is designed for durability, external impacts can compromise its integrity.
- **Cleaning:** If necessary, the exterior of the tank can be wiped clean with a damp cloth. Avoid using harsh chemicals or abrasive cleaners.



Image 5.1: Tank with optional insulating cover. This image shows a black tank with a protective cover, which can help with insulation and protection.

6. TROUBLESHOOTING

Most issues related to a water treatment system originate from the control valve or the media, rather than the tank itself. However, here are some general troubleshooting tips:

- **Leaks:**
 - Check all plumbing connections to the control valve and any other fittings for tightness.
 - Inspect the O-rings and gaskets within the control valve.
 - If a leak is suspected from the tank body, immediately shut off the water supply and contact customer support.
- **Poor Water Quality:**
 - Verify that the control valve is programmed correctly and performing regeneration/backwash cycles as scheduled.
 - Check the condition and level of the media inside the tank. It may need replenishment or replacement.
 - Consult the troubleshooting section of your control valve's manual.

7. SPECIFICATIONS

Specification	Detail
Manufacturer	AFWFilters
Part Number	MNRL-1054-BRT
Model Number	MNRL-1054-riser
Dimensions (Diameter x Height)	10 x 54 inches
Item Weight	18 pounds
Threaded Opening Size	2.5 inches
Included Components	Tank and Riser Tube
Material	Structural Polyglass Resin with HDPE Liner
Color	Black

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This Pentair tank is backed by a **10-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, installation guidance, or warranty inquiries, please contact AFWFilters customer support. Our water treatment specialists are available to provide expert assistance.

Visit the official AFWFilters store for more information and contact options:[AFWFilters Store](#)



