Pentair 152227

Pentair 152227 Tank Piping Assembly User Manual

Model: 152227

Introduction

This manual provides essential information for the installation, operation, and maintenance of the Pentair 152227 22-Inch Tank Piping Assembly. This replacement part is specifically designed for use with Pentair Sta-Rite Cristal-Flo II high-rate pool and spa sand filters, and is also compatible with Pentair Sand Dollar blow molded pool and spa sand filter model SD60. Proper installation and care will ensure the longevity and optimal performance of your pool or spa filtration system.

Safety Information

Always observe basic safety precautions when installing or servicing pool equipment. Failure to follow these instructions could result in injury or property damage.

- Ensure all power to the pump and filter system is disconnected before beginning any work.
- Relieve all pressure from the filter tank before opening.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- If you are unsure about any step, consult a qualified pool professional.
- Keep children and pets away from the work area.

Package Contents

Verify that all components are present and undamaged before proceeding with installation.

- 1 x Pentair 152227 Tank Piping Assembly (includes central pipe and laterals)



Image: The Pentair 152227 Tank Piping Assembly, showing the central pipe with all laterals securely attached, ready for installation into a sand filter tank.

Setup and Installation

This section outlines the steps for replacing the tank piping assembly in your sand filter. Refer to your specific filter's manual for detailed instructions on disassembling and reassembling the filter tank.

1. **Prepare the Filter:**
    - Turn off the pool pump and close all necessary valves to isolate the filter.
    - Open the air relief valve on top of the filter and remove the drain plug at the bottom to drain all water and relieve

pressure.
- Once drained, remove the multi-port valve or top flange assembly from the filter tank.

2. **Remove Old Sand and Assembly:**
   - Carefully remove the existing sand from the filter tank. This can be done by hand or using a shop vacuum. Be cautious not to damage the existing laterals if they are still intact.
   - Once the sand is removed, carefully lift out the old tank piping assembly. Inspect the tank interior for any debris or damage.
3. **Install New Assembly:**
   - Ensure the new Pentair 152227 assembly is clean and free of any manufacturing debris.
   - Carefully lower the new piping assembly into the center of the filter tank. Ensure the laterals are spread out evenly at the bottom of the tank.
   - The central pipe of the assembly should align with the opening at the top of the filter tank where the multi-port valve will attach.



Image: The Pentair 152227 Tank Piping Assembly, showing the central pipe and individual laterals. This view helps in understanding how the laterals connect to the central pipe.

4. **Add New Filter Sand:**
   - Before adding new sand, place a cap or plastic bag over the top opening of the central pipe to prevent sand from entering it.
   - Slowly add the recommended grade and amount of filter sand (typically #20 silica sand) into the tank. Distribute the sand evenly around the laterals, ensuring they remain flat and covered.
   - Fill the tank with sand to the level specified by your filter manufacturer, usually about two-thirds full.
5. **Reassemble and Start Up:**
   - Remove the cap/bag from the central pipe.
   - Reattach the multi-port valve or top flange assembly, ensuring all O-rings and gaskets are properly seated and lubricated. Tighten all clamps or bolts according to your filter's instructions.
   - Open all necessary valves and ensure the drain plug is securely in place.
   - Before starting the pump, fill the filter tank with water until it reaches the top. This helps prevent air pockets and damage to the laterals.
   - Set the multi-port valve to the "BACKWASH" position and start the pump. Backwash the filter until the water runs clear from the waste line.
   - Turn off the pump, set the valve to "RINSE" (if available), and run for 30-60 seconds.

- Turn off the pump, set the valve to "FILTER", and restart the pump. Your filter system should now be operational.

Operating Principles

The tank piping assembly, including the central pipe and laterals, is a critical component of your sand filter. Water from the pool enters the filter and is directed down through the sand bed. The sand traps debris and impurities. The clean water then flows through the laterals at the bottom of the tank, which are designed to collect the filtered water without allowing sand to escape. This water then travels up the central pipe and back to the pool. During backwash cycles, water flows in reverse, dislodging trapped debris from the sand bed and flushing it out through the laterals and central pipe to the waste line.

Maintenance

The Pentair 152227 Tank Piping Assembly is designed for durability and requires minimal direct maintenance. Its primary function is to facilitate water flow within the sand filter.

- **Regular Backwashing:** Perform regular backwashing of your sand filter as recommended by your filter's manufacturer. This prevents excessive pressure buildup and ensures the sand bed and laterals remain clear of debris.
- **Annual Inspection:** When replacing filter sand (typically every 3-5 years), inspect the laterals and central pipe for any cracks, damage, or blockages. Replace the assembly if any significant wear or damage is observed.
- **Winterization:** During winterization, ensure the filter tank is completely drained to prevent freezing, which could damage the laterals and piping.

Troubleshooting

Issues related to the tank piping assembly often manifest as problems with filter performance.

Problem	Possible Cause	Solution
Sand returning to pool	Cracked or broken laterals; improperly seated laterals; too much sand in filter.	Inspect laterals for damage and replace assembly if necessary. Ensure laterals are properly seated during installation. Verify correct sand level.
Low water flow/pressure	Clogged laterals; central pipe obstruction.	Perform thorough backwash. If problem persists, inspect assembly for blockages during sand replacement.
Filter not cleaning effectively	Damaged laterals allowing unfiltered water to bypass sand.	Inspect and replace the assembly if laterals are damaged.

Specifications

- **Model Number:** 152227
- **Tank Size Compatibility:** 22-inch
- **Compatible Filter Models:** Pentair Sta-Rite Cristal-Flo II high-rate sand filters, Pentair Sand Dollar blow molded sand filter model SD60.
- **Product Dimensions:** Approximately 6 x 4 x 6 inches (packaged)
- **Item Weight:** Approximately 1.92 pounds
- **Material:** Durable PVC and plastic components

Warranty and Support

For specific warranty information regarding the Pentair 152227 Tank Piping Assembly, please refer to the warranty documentation provided with your original Pentair filter system or visit the official Pentair website. Pentair products typically come with a limited warranty covering manufacturing defects.

For technical support, replacement parts, or further assistance, please contact Pentair Customer Service or your authorized Pentair dealer. You can find contact information on the official Pentair website: www.pentair.com

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