**Pentair 150042**

# Pentair 150042 Tube Air Relief Replacement User Manual

For Triton II TR140 Commercial Pool and Spa Sand Filters

## Product Overview

The Pentair 150042 Tube Air Relief is a crucial replacement component designed for the Triton II TR140 Commercial Pool and Spa Sand Filter. This part ensures proper air relief within the filter system, which is essential for efficient filtration and preventing air pockets that can impede water flow and filter performance.



**Figure 1:** The Pentair 150042 Tube Air Relief. This image shows the black, curved tube component, which is a replacement part for the air relief system in Pentair Triton II TR140 sand filters.

## Safety Information

Always disconnect power to the pump and filter system before performing any maintenance or replacement procedures. Release all pressure from the filter tank before opening. Consult a qualified pool technician if you are unsure about any steps. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

## Installation / Setup

This section outlines the general steps for replacing the air relief tube. Specific procedures may vary slightly based on your filter's exact configuration. Refer to your main filter manual for detailed instructions.

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 to release any trapped air.
2. **Drain the Filter:** Open the drain plug at the bottom of the filter tank to drain all water.
3. **Access the Internal Components:** Carefully remove the clamp and lid assembly from the filter tank. This will expose the internal components, including the standpipe and lateral assembly.
4. **Remove Old Air Relief Tube:** Locate the existing air relief tube. It is typically connected to the standpipe or a dedicated port. Gently detach the old tube, noting its orientation and connection points.
5. **Install New Air Relief Tube:** Carefully insert the new Pentair 150042 Tube Air Relief into the designated connection point. Ensure it is securely seated and oriented correctly to allow for proper air purging.
6. **Reassemble the Filter:** Replace the filter lid and clamp assembly, ensuring a tight seal. Close the drain plug.
7. **Refill and Test:** Slowly open the valves to allow water to refill the filter tank. Open the air relief valve until a steady stream of water emerges, indicating all air has been purged. Close the air relief valve and restart the pump. Check for leaks.

## Operating Considerations

The air relief tube is a passive component that facilitates the removal of air from the filter tank. Proper operation of the filter system relies on the tube being clear and unobstructed. Ensure the air relief valve on the filter head is opened during initial startup and after backwashing to purge air from the system.

## Maintenance

Regular inspection of the air relief tube is recommended during routine filter maintenance, such as sand changes or deep cleaning. Check for any signs of cracking, brittleness, or blockage. A damaged or clogged air relief tube can lead to air pockets in the filter, reducing its efficiency and potentially causing pump cavitation.

- **Visual Inspection:** Periodically inspect the tube for physical damage or debris.
- **Cleaning:** If accessible, gently clean the tube to remove any mineral deposits or organic matter that may accumulate.
- **Replacement:** Replace the tube if it shows signs of wear, damage, or if air purging issues persist despite other troubleshooting steps.

## Troubleshooting

If you experience issues related to air in your filter system, consider the following:

- **Air Bubbles from Returns:** This often indicates air entering the system. Check for leaks on the suction side of the pump, loose pump lid, or low water level in the pool. Ensure the air relief valve on the filter is fully closed after purging.
- **Difficulty Purging Air:** If air does not readily escape when the air relief valve is opened, the air relief tube itself might be clogged or damaged. Inspect and replace if necessary.
- **Reduced Filter Performance:** Air trapped in the filter can reduce filtration efficiency. Ensure proper air purging procedures are followed.

## Specifications

| Attribute | Detail |
|---|---|
| **Brand** | Pentair |
| **Model Number** | 150042 |
| **Product Type** | Tube Air Relief Replacement |
| **Compatibility** | Pentair Triton II TR140 Commercial Pool and Spa Sand Filters |
| **Dimensions** | 45.72 x 30.48 x 1.27 cm (18 x 12 x 0.5 inches) |
| **Weight** | 45.36 g (0.1 lbs) |

## Official Product Videos

No official product videos from the seller are available for this specific component at this time.

## Warranty Information

This replacement part is typically covered by a limited manufacturer's warranty against defects in materials and workmanship. Please refer to the original product packaging or the official Pentair website for specific warranty terms and conditions applicable to replacement parts. Keep your proof of purchase for warranty claims.

## Customer Support

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Pentair customer support directly. You can find contact information on the official Pentair website or through your authorized Pentair dealer.
**Pentair Official Website:** www.pentair.com

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