Pentair EC-160317

Pentair Clean & Clear 150 sq. ft. Cartridge Pool Filter EC-160317 User Manual

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your Pentair Clean & Clear 150 sq. ft. Cartridge Pool Filter, model EC-160317. Please read this manual thoroughly before attempting to install or operate the filter. Retain this manual for future reference.

1.1 Product Overview

The Pentair Clean & Clear Cartridge Pool Filter is designed to provide efficient and reliable filtration for your pool. Its fiberglass-reinforced, chemical-resistant polypropylene tanks are engineered for durability and ease of maintenance. The filter features an easily accessible, coreless cartridge that can be rinsed clean, simplifying routine upkeep. Unionized connections facilitate quick installation and servicing.



Image: Pentair Clean & Clear 150 sq. ft. Cartridge Pool Filter. This image displays the complete filter unit, a tall, cylindrical, off-white tank with a pressure gauge and air relief valve on top, and plumbing connections at the bottom.

2. Important Safety Information

WARNING: Failure to follow these instructions can result in severe injury or death. This product must be installed and serviced by a qualified pool professional in accordance with all applicable local and national codes.

- Always disconnect power to the pump before servicing the filter.
- Do not operate the filter if any part is damaged or missing.
- Ensure proper water flow through the system to prevent pressure buildup.
- Never tamper with the safety latches or pressure relief valve.
- Keep children away from pool equipment.

3. Installation and Setup

3.1 Unpacking

Carefully remove all components from the packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.

3.2 Site Selection

Install the filter on a firm, level surface, preferably concrete, to ensure stability. The location should allow for adequate

clearance around the filter for maintenance and servicing. Ensure the filter is installed in a well-drained area, protected from excessive moisture and direct sunlight if possible.

3.3 Plumbing Connections

1. Position the filter and pump according to your pool system layout.
2. Connect the plumbing using the provided unionized connections. These connections are designed for fast hookup and servicing.
3. Ensure all connections are tight to prevent leaks. Use appropriate thread sealant where necessary.
4. Install the pressure gauge and air relief valve as per the diagrams in the full product manual (not included here).

3.4 Initial Start-up

1. Ensure the filter drain plug is closed.
2. Open the manual air relief valve on top of the filter.
3. Start the pool pump.
4. Allow the filter to fill with water and air to escape through the air relief valve.
5. Once a steady stream of water emerges from the air relief valve, close the valve.
6. Check for any leaks and monitor the pressure gauge. Note the initial operating pressure.

4. Operation

4.1 Normal Operation

The filter operates by circulating pool water through the cartridge element, trapping debris and particles. Monitor the pressure gauge regularly. A rise in pressure, typically 8-10 PSI above the initial clean pressure, indicates that the cartridge needs cleaning.

4.2 Flow Rate Considerations

Pentair Aquatic Systems does not recommend flow rates above 150 GPM (Gallons Per Minute) for this filter model. Exceeding this rate can reduce filtration efficiency and potentially damage the filter components.

4.3 Air Relief System

The integrated continuous High Flow internal air relief system is operational only when there is unobstructed flow in the circulating system. This system helps prevent air buildup within the filter, which can affect performance. Always ensure the system is properly primed during start-up.

5. Maintenance

5.1 Cartridge Cleaning

Regular cleaning of the filter cartridge is crucial for optimal performance. The coreless cartridge design facilitates easy cleaning.

1. Turn off the pump and disconnect power.
2. Open the manual air relief valve to release pressure.
3. Unscrew the lock ring with spring-loaded safety latches.
4. Remove the filter top and carefully lift out the cartridge element.
5. Rinse the cartridge thoroughly with a garden hose, ensuring all debris is removed from the pleats. For stubborn dirt or oils, a specialized filter cleaning solution may be used.

6. Inspect the cartridge for damage. Replace if necessary.
7. Reinstall the clean cartridge, ensuring it is seated correctly.
8. Replace the filter top and secure the lock ring.
9. Follow the initial start-up procedure (Section 3.4) to repressurize the system.

5.2 Winterization

In areas subject to freezing temperatures, the filter must be properly winterized to prevent damage. Consult a pool professional for specific winterization procedures for your region.

6. Troubleshooting

This section addresses common issues you might encounter with your filter. For problems not listed here, contact a qualified pool service professional.

- **Low Water Flow:** Check for clogged skimmer baskets, pump strainer basket, or a dirty filter cartridge. Ensure all valves are fully open.
- **High Pressure:** Indicates a dirty filter cartridge. Perform cartridge cleaning as described in Section 5.1.
- **Leaks:** Inspect all plumbing connections, O-rings, and the filter tank for cracks. Ensure the lock ring is properly secured. A common issue can be a damaged O-ring or a ridge in the sealing groove, requiring careful inspection and lubrication.
- **Air in System:** Check for leaks on the suction side of the pump, ensure water level is adequate, and verify proper operation of the air relief valve during start-up.

7. Specifications

Brand	Pentair
Model Number	EC-160317
Filter Area	150 sq. ft.
Item Weight	31.6 pounds
Maximum Recommended Flow Rate	150 GPM

8. Warranty and Support

For warranty information, technical support, or to locate an authorized service center, please contact Pentair directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: Pentair
Website: www.pentair.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question