

Waterway Plastics 570-0048-07

Waterway Plastics Crystal Water D.E. Pool Filter User Manual

Model: 570-0048-07

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Waterway Plastics Crystal Water D.E. Pool Filter. Designed for superior water clarity and efficient filtration, this filter features internal piping and a fiberglass-reinforced polypropylene body for enhanced flow and durability. Please read this manual thoroughly before operating the filter to ensure safe and optimal performance.

2. PRODUCT OVERVIEW

The Waterway Crystal Water D.E. Pool Filter is engineered to provide exceptional filtration for your pool or spa. Its robust construction and efficient design ensure clean and clear water with minimal effort.



Figure 1: Waterway Crystal Water D.E. Pool Filter (Model 570-0048-07)

This image shows the main unit of the Waterway Crystal Water D.E. Pool Filter, a large, grey cylindrical tank with a pressure gauge on top and inlet/outlet ports on the side. The "Crystal Water" logo is visible on the upper section of the tank.

Key Features:

- **Flow Rate:** 96 Gallons Per Minute (GPM) for efficient water circulation.
- **Internal Piping:** Features 2.5-inch internal piping for improved flow and reduced system noise.
- **Durable Construction:** Built with a fiberglass-reinforced polypropylene body for superior strength and longevity.
- **D.E. Grids:** Utilizes industry-proven Diatomaceous Earth (D.E.) grids for fine particle filtration.
- **Secure Closure:** Equipped with a heavy-duty tamper-proof clamp for a secure and leak-free seal.

3. SETUP AND INSTALLATION

Proper installation is crucial for the efficient operation and longevity of your D.E. filter. It is recommended that installation be performed by a qualified pool professional.

3.1 Site Selection:

- Choose a level, solid surface, preferably concrete, that can support the weight of the filter when filled with water.
- Ensure adequate clearance around the filter for maintenance and servicing.
- Locate the filter as close to the pool as possible to minimize plumbing runs and maximize efficiency.
- Protect the filter from direct sunlight and harsh weather conditions if possible, or ensure it is rated for outdoor use.

3.2 Plumbing Connections:

1. Connect the pool pump's discharge line to the filter's "INLET" port.
2. Connect the filter's "OUTLET" port to the pool's return line.
3. Ensure all connections are tight and sealed to prevent leaks. Use appropriate thread sealant for threaded connections.
4. Install a pressure gauge on the filter head to monitor operating pressure.
5. Ensure proper drainage is available for backwashing and maintenance.

3.3 Initial Start-Up:

1. Before adding D.E. powder, ensure the filter tank is filled with water.
2. With the pump off, open the air relief valve on top of the filter.
3. Start the pump and allow the filter to fill with water, expelling air through the air relief valve. Close the valve once a steady stream of water emerges.
4. Add the recommended amount of D.E. powder (refer to your pool size and filter capacity) into the skimmer while the pump is running. The D.E. will be drawn into the filter and coat the grids.
5. Note the initial operating pressure after the D.E. has coated the grids. This is your clean filter pressure.

4. OPERATING INSTRUCTIONS

Once installed and primed, your Waterway Crystal Water D.E. filter operates continuously to keep your pool water clean.

4.1 Normal Operation:

- The filter should run daily for a sufficient period to circulate all pool water at least once. Consult your pool professional for recommended run times based on pool size and usage.
- Monitor the pressure gauge regularly. As the filter collects debris, the pressure will gradually rise.

4.2 Backwashing:

Backwashing is necessary when the filter pressure rises 8-10 PSI above the clean filter pressure, or when water clarity diminishes. This process removes accumulated debris from the D.E. grids.

1. Turn off the pool pump.
2. Open the backwash valve or port (if applicable) to direct water to waste.
3. Turn on the pump and backwash until the water running to waste is clear (typically 2-3 minutes).
4. Turn off the pump.
5. Close the backwash valve and open the air relief valve.
6. Turn on the pump and allow the filter to fill with water, expelling air. Close the air relief valve.
7. Add the appropriate amount of fresh D.E. powder to the skimmer while the pump is running to re-coat the grids.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Waterway D.E. filter.

5.1 Grid Cleaning:

Periodically (at least once per swimming season or more frequently if needed), the D.E. grids should be removed and thoroughly cleaned. This involves disassembling the filter and hosing down the grids to remove caked-on D.E. and debris. Chemical cleaning may be necessary to remove oils and scale.

5.2 O-Ring Lubrication:

Inspect and lubricate the tank O-ring and other accessible O-rings with a silicone-based lubricant during grid cleaning. This helps maintain a proper seal and prevents leaks.

5.3 Winterization (if applicable):

In colder climates, the filter must be properly winterized to prevent freeze damage. This typically involves draining all water from the filter, removing the D.E. grids, and storing them in a dry, protected area. Consult local guidelines for specific winterization procedures.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your D.E. filter.

Problem	Possible Cause	Solution
Low Water Flow / High Pressure	Clogged D.E. grids; dirty pump basket/skimmer; closed valves.	Backwash filter; clean pump basket/skimmer; check and open all valves.
Water Leaking from Filter	Damaged O-ring; loose clamp; cracked tank.	Inspect and replace O-ring; tighten clamp; inspect tank for damage.
D.E. Returning to Pool	Damaged D.E. grids; improper D.E. application; torn manifold.	Inspect and replace damaged grids; ensure proper D.E. dosage; inspect manifold.
Cloudy Pool Water	Insufficient filtration time; dirty filter; improper chemical balance.	Increase pump run time; backwash/clean filter; test and adjust pool chemistry.

If you are unable to resolve an issue using the troubleshooting guide, please contact a qualified pool technician or Waterway Plastics customer support.

7. SPECIFICATIONS

- **Model Number:** 570-0048-07
- **Product Dimensions:** 43.8 x 22.5 x 22.5 inches
- **Item Weight:** 80 pounds
- **Manufacturer:** WATERWAY PLASTICS
- **Flow Rate:** 96 GPM
- **Internal Piping:** 2.5 inch
- **Body Material:** Fiberglass reinforced polypropylene

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Waterway Plastics website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: Waterway Plastics

Contact Information: Please visit www.waterwayplastics.com for the most current contact details and support resources.