

XtremepowerUS 75221-1

XtremepowerUS DE Pool Filter (60 sq/ft) User Manual

Model: 75221-1

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your XtremepowerUS DE Pool Filter. Please read this manual thoroughly before attempting to install or operate the filter. Retain this manual for future reference.

The XtremepowerUS DE (Diatomaceous Earth) Pool Filter is designed to provide superior water clarity for in-ground pools and spas. It utilizes diatomaceous earth as a filter medium to remove microscopic particles from your pool water, ensuring efficient filtration and a clean swimming environment.

2. 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 the filter is installed on a level, solid surface capable of supporting its weight when filled with water.
- Never exceed the maximum operating pressure of 50 PSI (3.5 Bar).
- Always open the air relief valve before disassembling the filter to release trapped air and pressure.
- Keep children away from pool equipment during operation and maintenance.
- Use only genuine XtremepowerUS replacement parts.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- DE Filter Tank (Upper and Lower Halves)
- DE Filter Grid Assembly
- Pressure Gauge
- Air Relief Valve
- Flange Clamp Assembly
- Inlet/Outlet Unions and O-rings
- Drain Plug



Image 3.1: Main filter unit with separate filter grids and plumbing unions.

4. SETUP AND INSTALLATION

Proper installation is crucial for the filter's performance and longevity. Consult a qualified pool professional if you are unsure about any step.

4.1 Site Selection

- Install the filter on a firm, level surface, preferably concrete, to prevent settling.
- Ensure adequate clearance around the filter for maintenance and servicing.
- Locate the filter as close to the pool as possible to minimize pipe friction loss.
- Protect the filter from direct sunlight and harsh weather conditions.



Image 4.1: Example of a DE pool filter installed adjacent to a swimming pool.

4.2 Assembly

1. Carefully place the DE filter grid assembly into the lower half of the filter tank. Ensure it is seated correctly.
2. Place the upper half of the filter tank onto the lower half, aligning the two halves.
3. Install the flange clamp assembly around the two tank halves. Tighten the clamp bolt securely, ensuring the O-ring

between the tank halves is properly seated and lubricated with silicone grease. Refer to the manufacturer's torque specifications for the clamp bolt (typically 150 inch-lbs or 12.5 foot-lbs).

4. Thread the pressure gauge into the designated port on the top of the filter tank.
5. Install the air relief valve into its port on the top of the filter.

4.3 Plumbing Connections

Connect the filter to your pool's plumbing system. The filter features clearly marked INLET and OUTLET ports.

- Connect the pipe from the pool pump's discharge to the filter's INLET port.
- Connect the pipe leading back to the pool returns to the filter's OUTLET port.
- Ensure all connections are watertight using appropriate sealants and pipe dope for PVC fittings.
- A multi-port valve (sold separately, ASIN / SKU: B0DBK25ZVR / 75230) is typically installed between the pump and the filter for various operational modes (filter, backwash, rinse, waste, recirculate, closed).



Image 4.2: Detailed view of the filter's INLET and OUTLET connections.

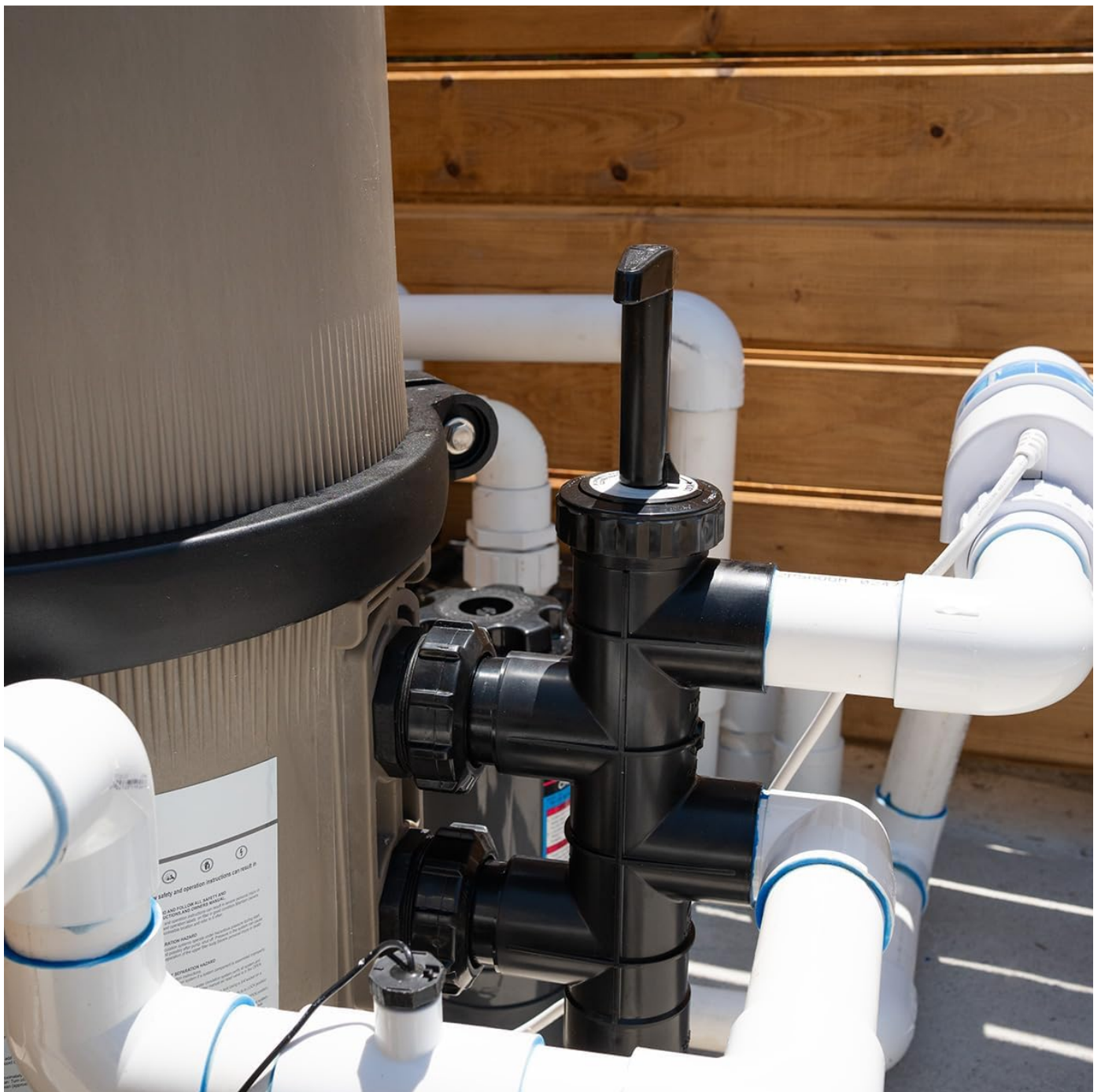


Image 4.3: Filter integrated into a pool plumbing system with a multi-port valve.

5. OPERATING INSTRUCTIONS

5.1 Initial Startup and Adding DE

1. Ensure all plumbing connections are secure and the drain plug is closed.
2. Open the air relief valve on top of the filter.
3. Set the multi-port valve (if installed) to the 'FILTER' position.
4. Start the pool pump. Allow the filter tank to fill with water. Water will begin to flow out of the air relief valve.
5. Once a steady stream of water (not air) comes from the air relief valve, close the valve.
6. Note the initial pressure reading on the pressure gauge. This is your 'clean filter' pressure.
7. With the pump running, slowly add the recommended amount of DE powder (typically 60 sq/ft filter requires 6 lbs of DE) into the pool skimmer. The DE will be drawn into the filter and coat the grids.

8. Allow the filter to operate for several hours to distribute the DE evenly and begin filtration.



Image 5.1: Pressure gauge indicating filter status.

5.2 Normal Operation

Operate your pool pump and filter for at least 8-12 hours daily for optimal water circulation and filtration. Monitor the pressure gauge regularly.

5.3 Backwashing

Backwash the filter when the pressure gauge reads 8-10 PSI above the initial 'clean filter' pressure, or when pool water clarity diminishes. This indicates the DE grids are loaded with debris.

1. Turn off the pool pump.
2. Set the multi-port valve to the 'BACKWASH' position.
3. Turn on the pool pump. Backwash for 2-3 minutes or until the discharge water runs clear.
4. Turn off the pool pump.

5. Set the multi-port valve to the 'RINSE' position.
6. Turn on the pool pump. Rinse for 30-60 seconds to flush any remaining DE from the lines.
7. Turn off the pool pump.
8. Set the multi-port valve back to the 'FILTER' position.
9. Add the recommended amount of fresh DE powder to the skimmer as described in Section 5.1.
10. Restart the pump and resume normal filtration.

6. MAINTENANCE

6.1 Regular Cleaning

Periodically (e.g., once per season or as needed), the DE filter grids should be removed and thoroughly cleaned. This involves disassembling the filter tank.

1. Turn off the pool pump and close any necessary valves to isolate the filter.
2. Open the air relief valve to release pressure.
3. Open the drain plug at the bottom of the filter to drain all water.
4. Loosen and remove the flange clamp assembly.
5. Carefully lift the upper tank half and the DE grid assembly out of the lower tank.
6. Thoroughly rinse the DE grids with a garden hose to remove all DE powder and debris. For stubborn deposits, a specialized filter cleaner may be used according to its instructions.
7. Inspect the grids for any tears or damage. Replace damaged grids immediately.
8. Inspect the tank O-ring for cracks or wear. Lubricate with silicone grease or replace if necessary.
9. Reassemble the filter by reversing these steps, ensuring the flange clamp is securely tightened.
10. Follow the 'Initial Startup and Adding DE' procedure (Section 5.1) to restart the filter.

6.2 Winterization

In areas subject to freezing temperatures, the filter must be properly winterized to prevent damage.

- Perform a thorough backwash and grid cleaning as described above.
- Drain all water from the filter tank by opening the drain plug and air relief valve.
- Disconnect plumbing lines and store them in a non-freezing environment if possible.
- Store the pressure gauge in a dry, non-freezing location.
- Cover the filter with a protective tarp or cover to shield it from elements.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor water clarity after filtration	Insufficient DE, torn filter grids, improper backwashing, air leak in system.	Add correct amount of DE, inspect/replace grids, backwash thoroughly, check for air leaks.
High pressure reading	Dirty filter grids, clogged plumbing.	Backwash filter, clean grids, check plumbing for obstructions.

Problem	Possible Cause	Solution
Low pressure reading / Low flow	Clogged skimmer/pump basket, air leak on suction side, pump malfunction.	Clean baskets, check for air leaks, inspect pump.
Water leaking from filter clamp	Improperly seated O-ring, loose clamp, damaged O-ring.	Ensure O-ring is clean and lubricated, tighten clamp, replace O-ring if damaged.

8. SPECIFICATIONS

- **Model:** 75221-1
- **Effective Filtration Area:** 60 sq/ft (5.76)
- **Flow Rating:** 120 Gallons Per Minute (GPM)
- **8-Hour Turnover (Approx.):** 57,600 Gallons
- **Maximum Working Pressure:** 50 PSI (3.5 Bar)
- **Product Dimensions:** 21 x 23 x 49.5 inches
- **Item Weight:** 86.6 pounds
- **Manufacturer:** XtremepowerUS



Image 8.1: Filter dimensions for planning installation space.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact XtremepowerUS customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

Note: Use of non-genuine XtremepowerUS parts may void your warranty and could lead to product malfunction or damage.

ASK A QUESTION ABOUT THIS MANUAL

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

Details

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