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› [XtremepowerUS](#) /

› User Manual for XtremepowerUS 24" Sand Filter

XtremepowerUS 75141-V

XtremepowerUS 24" Sand Filter System

USER MANUAL

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your XtremepowerUS 24" Sand Filter System. This sand filter is designed to provide optimum flow rates for clean water quality in inground and above-ground swimming pools. It features a durable, one-piece blow-molded tank and a 7-position multi-port valve for versatile operation.



Image: The XtremepowerUS 24-inch sand filter system, showing the main tank and the multi-port valve on top.

Setup and Installation

Proper installation is crucial for the performance and longevity of your sand filter. Ensure all components are present and undamaged before beginning.

Components Overview:

- One-piece blow-molded tank
- Top-mount 7-position multi-port valve
- Universal base
- Pressure gauge
- Internal filter assembly (laterals and standpipe)
- Cone for sand filling
- Threaded connections



Image: The internal filter assembly, including the central standpipe and radiating lateral arms, which are crucial for even water distribution and collection within the sand bed.

Installation Steps:

1. **Positioning:** Place the filter tank on a firm, level surface, preferably concrete, as close to the pool as possible.

2. **Internal Assembly:** Carefully place the internal filter assembly (laterals and standpipe) inside the tank. Ensure it is centered.
3. **Sand Filling:** Use the provided cone to cover the top of the standpipe. Slowly add the recommended amount of filter sand (300 lbs for 24" model) into the tank. Distribute evenly. Remove the cone once sand is filled.
4. **Multi-Port Valve Installation:** Securely attach the multi-port valve to the top of the tank, ensuring the standpipe aligns correctly with the valve's opening. Tighten all connections.
5. **Pressure Gauge:** Install the pressure gauge into the designated port on the multi-port valve. Ensure it is hand-tightened, not overtightened, to prevent leaks.
6. **Plumbing Connections:** Connect the pool pump to the "PUMP" port, the return line to the pool to the "RETURN" port, and the waste line to the "WASTE" port on the multi-port valve. Ensure all threaded connections are secure.



Image: The sand filter with hoses connected to the multi-port valve, illustrating the ease of installation for pool systems. Adapters and hoses are sold separately.



Image: A close-up view of the pressure gauge installed on the multi-port valve, indicating proper pressure monitoring is essential for filter operation.



Image: A top-down view of the multi-port valve, showing the handle and various settings for different operational modes.

Operating the Multi-Port Valve

The 7-way multi-port valve provides various functions for pool maintenance. Always turn off the pump before changing valve positions to prevent damage.



Image: A detailed diagram illustrating the seven essential functions of the multi-port valve system, including Filter, Rinse, Re-Circulate, Closed, Waste, Backwash, and Winter.

Valve Functions:

- **FILTER:** Normal filtering mode. Water passes through the sand bed, trapping debris, and returns to the pool.
- **BACKWASH:** Reverses water flow through the filter to clean the sand bed and flush trapped debris out the waste port.
- **RINSE:** Used after backwashing to flush out any remaining dirty water from the valve and settle the sand bed before returning to filter mode.
- **WASTE:** Drains water directly from the pool out the waste port, bypassing the filter. Useful for vacuuming heavy debris or lowering pool water level.
- **RE-CIRCULATE:** Circulates water through the pump and valve, bypassing the filter. Useful for distributing chemicals without filtering.

- **CLOSED:** Stops all water flow to and from the filter. Use when performing maintenance on the pump or filter.
- **WINTER:** Position for winterizing the filter system.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your sand filter.

- **Backwashing:** Backwash the filter when the pressure gauge reads 8-10 PSI above its clean operating pressure, or when water clarity decreases. Follow the BACKWASH and RINSE procedures outlined in the Operating section.
- **Sand Replacement:** Filter sand typically lasts 3-5 years, depending on usage and water chemistry. Replace sand when filtration efficiency noticeably declines.
- **Winterizing:** Follow the WINTER setting procedure and drain all water from the filter and plumbing to prevent freezing damage in cold climates.
- **Seal Inspection:** Periodically inspect O-rings and gaskets for wear and tear. Replace as needed to prevent leaks.

Troubleshooting

This section addresses common issues you might encounter with your sand filter system.

Problem	Possible Cause	Solution
Water leaking from valve or connections	Loose connections, worn O-rings/gaskets, overtightened pressure gauge.	Check and tighten all threaded connections. Inspect and replace O-rings/gaskets if damaged. Ensure pressure gauge is hand-tightened only.
Poor water clarity / Ineffective filtration	Dirty sand filter, insufficient backwashing, incorrect sand type/amount, damaged laterals.	Perform backwash and rinse cycles. Verify correct sand type and quantity. Inspect internal laterals for damage.
High pressure reading	Clogged filter sand, clogged skimmer/pump basket, restricted return lines.	Backwash the filter. Clean skimmer and pump baskets. Check for obstructions in plumbing.

Specifications

Key specifications for the XtremepowerUS 24" Sand Filter System:

Attribute	Value
Product Dimensions	24 x 24.5 x 40.5 inches
Item Weight	39.8 pounds
Manufacturer	XtremepowerUS
Model Number	75141-V
Sand Capacity (24" model)	300 lbs
Recommended Max Pool Size (24" model)	29,400 Gallons
Gallons Per Hour (24" model)	3720 GPH

Warranty and Support

For warranty information, technical support, or replacement parts, please contact XtremepowerUS customer service. Keep your purchase receipt and model number (75141-V) readily available for assistance. You can visit the official XtremepowerUS store for more products and information:[XtremepowerUS Store](#)

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

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

Submit question

Answered questions about this manual

How do I replace the drain cap on the XtremepowerUS 75141-V 24-inch sand filter?

While the manual for the XtremepowerUS 75141-V 24-inch Sand Filter mentions the drain cap primarily in the context of winterizing, replacing it is a straightforward process. Follow these steps to safely replace a damaged...

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