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› XtremepowerUS 12-inch Sand Filter Pump System (Model 75110-V) Instruction Manual

## XtremepowerUS 75110-V

# XtremepowerUS 12-inch Sand Filter Pump System (Model 75110-V) Instruction Manual

Model: 75110-V | Brand: XtremepowerUS

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your XtremepowerUS 12-inch Sand Filter Pump System. Please read this manual thoroughly before attempting to install or operate the system. Keep this manual for future reference.



Figure 1: XtremepowerUS 12-inch Sand Filter Pump System in operation.

## Safety Precautions

- Always disconnect power before performing any service or maintenance.
- Ensure the system is installed on a level surface.
- Do not operate the pump dry. Ensure it is primed with water before starting.
- Keep children away from the pump and filter system during operation.
- This pump is not for use/sale in California.

## 2. PACKAGE CONTENTS

Verify that all components listed below are included in your package. If any parts are missing or damaged, please contact customer support.



Figure 2: All components included in the package.

- Sand Filter Tank (12-inch)
- 0.75 HP Pool Pump
- 4-Way Multi-Port Valve
- Pressure Gauge
- System Tray / Mounting Base
- Hose Adapters
- Hoses and Clamps
- Manual

### 3. SPECIFICATIONS

Key technical specifications for the XtremepowerUS 12-inch Sand Filter Pump System:



Figure 3: Product dimensions.

Specification	Value
Brand	XtremepowerUS
Model Number	75110-V
Pool Type	Above Ground
Filtration Area	Up to 10,000 Gallons
Pump Power	0.75 HP
Voltage	115V/60Hz
Flow Max	2400 GPH (40 Gallons Per Minute)
Inlet/Outlet Fitting	1-1/4" NPT
Drum Capacity	Holds up to 43 lbs of sand
Max Temperature	105°F
Waterproof Level	IPX5
Max Suction	34.4 ft
Overall Dimension (L x W x H)	17" x 17" x 23.5"
Material	Metal, Polypropylene (PP), Steel

## 4. SETUP & INSTALLATION

Follow these steps carefully to assemble and install your sand filter pump system. Refer to the video for visual guidance.

Video 1: XtremepowerUS High-Flo Sand Filter Pump System Installation Guide.

## 4.1 Filter Assembly

1. **Install Drain Nozzle:** Place an O-ring onto the long side of the filter drain nozzle. Route the nozzle from inside the filter barrel and push it out through the bottom drain hole. Place another O-ring and secure it with the nut from outside the barrel. Insert an O-ring into the drain hole nozzle cap and screw it onto the nozzle.
2. **Position Filter Assembly:** Place the filter assembly inside the filter barrel. Position the funnel on top of the filter assembly, ensuring it is correctly inserted and centered within the barrel.
3. **Fill with Filter Media:** Fill the filter barrel with your chosen filter media (filter balls or sand) according to recommended guidelines. Remove the funnel after filling.
4. **Install 4-Way Valve:** Place an O-ring onto the 4-way valve. Position the valve on the upper part of the filter, ensuring the top of the filter assembly is properly inserted into the bottom of the valve. Ensure the valve pump opening aligns with the filter stand groove and the waste opening is oriented towards the drain nozzle. Secure the valve in place with the locking ring. Place the square nut on one side of each locking ring and tighten.
5. **Install Pressure Gauge:** Secure the pressure gauge with plumber's tape. Remove the pressure gauge covering screw from the valve and screw the pressure gauge onto the valve.

## 4.2 Pump Installation

1. **Position Pump on Base:** Place the pump on top of the system tray (mounting base), aligning it with all four screw holes.
2. **Secure Mounting Base:** Flip the mounting base over and insert all four nuts into the mounting spaces. Carefully flip the mounting base back.
3. **Fasten Pump:** Place the bolts into the screw holes and tighten all four bolts with a Phillips screwdriver to secure the pump to the base.
4. **Install Pump Adapters:** Put O-rings on the hose adapters and screw the hose adapters onto the pump outlet and inlet.

## 4.3 Hose Installation

Ensure all hose clamps are securely tightened to prevent leaks. Verify O-rings are correctly seated.

1. **Filter to Pump Connection:** Place a hose clamp on the hose adapter from the valve opening marked 'PUMP'. Connect a hose to this adapter and then to the pump's inlet hose adapter. Tighten both hose clamps.
2. **Pool Return to Valve Connection:** Connect the hose from the pool's return inlet to the hose adapter from the valve opening marked 'POOL'. Ensure the O-ring on the hose adapter is not displaced during this process. Tighten the hose clamp.
3. **Pool Main Drain to Pump Connection:** Connect the hose from the pool's main drain to the hose adapter on the pump's outlet. Tighten the hose clamp.

## 5. OPERATION

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The 4-way multi-port valve allows for different operational modes. Always ensure the pump is OFF before changing valve settings.



Figure 4: Multi-port valve settings.

### Valve Modes:

- **Filtration:** This is the standard operating mode. Water is pumped from the pool, filtered through the sand media, and returned to the pool.
- **Backwash:** Used to clean the filter media. Water flow is reversed, flushing trapped debris out through the waste port. Perform backwash when the pressure gauge reading is 8-10 PSI above the clean filter reading.
- **Rinse:** After backwashing, this mode settles the filter media and removes any remaining dirt from the filter lines before returning to filtration mode.
- **Waste:** Drains water directly from the pool, bypassing the filter. Useful for lowering pool water level or vacuuming heavy debris directly to waste.
- **Recirculate:** Circulates pool water without filtering.
- **Winter:** Used for winterizing the system.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your filter system.

### 6.1 Backwashing

Backwash the filter when the pressure gauge indicates a rise of 8-10 PSI above its normal clean operating pressure. This typically means the filter media is saturated with debris.

1. Turn off the pump.
2. Set the multi-port valve to 'BACKWASH'.
3. Turn on the pump and run until the water from the waste port runs clear (typically 1-2 minutes).
4. Turn off the pump.
5. Set the multi-port valve to 'RINSE'.
6. Turn on the pump and run for 30-60 seconds.
7. Turn off the pump.
8. Set the multi-port valve back to 'FILTRATION'.
9. Turn on the pump to resume normal operation.

## 6.2 Cleaning the Pump Strainer Basket

The pump's strainer basket should be checked and cleaned regularly to prevent debris from entering the pump impeller.



Figure 5: Pump strainer basket.

1. Turn off the pump and close any necessary valves to prevent water flow.

2. Unscrew the clear lid of the strainer basket.
3. Remove the basket and empty any collected debris.
4. Rinse the basket thoroughly.
5. Replace the basket and securely screw the lid back on. Ensure the O-ring is properly seated to prevent air leaks.
6. Open valves and prime the pump if necessary before restarting.

### 6.3 Filter Media Replacement

Sand filter media typically lasts 3-5 years, depending on usage and water quality. Filter balls may require more frequent cleaning or replacement.

1. Turn off the pump and disconnect power.
2. Drain the filter tank completely.
3. Remove the multi-port valve.
4. Carefully remove the old filter media.
5. Rinse the inside of the tank.
6. Add new filter media, ensuring the standpipe is centered.
7. Reassemble the valve and reconnect all hoses.
8. Perform a backwash and rinse cycle before resuming normal filtration.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Low Water Flow	Clogged strainer basket, dirty filter media, air leak in suction line, low water level in pool.	Clean strainer basket, backwash/rinse filter, check all connections for air leaks, ensure adequate pool water level.
Water Leaks	Loose hose connections, damaged O-rings/gaskets, cracked housing.	Tighten all hose clamps and connections, inspect and replace damaged O-rings/gaskets, contact customer support for cracked components.
Pump Not Starting	No power, tripped circuit breaker, motor issue.	Check power supply and circuit breaker, ensure pump is plugged in, contact a qualified electrician or customer support if motor issues persist.
Cloudy Pool Water	Insufficient filtration time, dirty filter media, improper chemical balance.	Increase filtration time, backwash/rinse filter, test and adjust pool chemicals.

## 8. WARRANTY & SUPPORT

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For warranty information or technical support, please refer to the warranty card included with your product or visit the XtremepowerUS official website. Keep your purchase receipt as proof of purchase for any warranty claims.