

VINGLI 24-inch Sand Filter with 1.5 HP Pump

VINGLI Sand Pool Filter 24-inch Tank with 1.5 HP Pump Instruction Manual

Model: 24-inch Sand Filter with 1.5 HP Pump (ASIN: B0CWXTLPVD)

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your VINGLI 24-inch Sand Pool Filter with 1.5 HP Pump. Please read this manual thoroughly before installation and operation to ensure proper function and safety. This system is designed for filtering water in above-ground and inground swimming pools, circulating and cleaning pool water effectively.

2. SAFETY INFORMATION

Important Safety Instructions:

- Always disconnect power before servicing the pump or filter.
- Ensure the electrical supply meets the pump's requirements (115V).
- This product is UL and ETL listed, meeting recognized safety standards.
- Do not operate the pump if it is damaged or has a frayed power cord.
- Keep children away from the pool equipment area.
- Ensure proper ventilation around the pump to prevent overheating.
- Consult a qualified electrician for electrical connections if unsure.

3. PRODUCT OVERVIEW AND COMPONENTS

The VINGLI Sand Pool Filter system consists of a durable filter tank, a powerful 1.5 HP pump, and a multi-port valve for various operational modes. Key components include:

- **Filter Tank:** Houses the filter media (sand or filter balls).
- **1.5 HP Pump:** Circulates water through the filter system.
- **Multi-Port Valve:** Controls the flow of water for different functions (Filter, Backwash, Rinse, Waste,

Recirculate, Closed).

- **Pressure Gauge:** Monitors the internal pressure of the filter, indicating when backwashing is needed.
- **Filter Basket:** Located in the pump, it collects larger debris before water enters the pump impeller.



Figure 1: Overview of the VINGLI Sand Pool Filter System, showing the filter tank, pump, and multi-port valve.

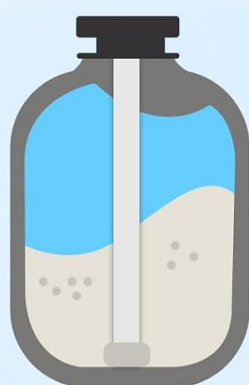


Figure 2: Illustration highlighting the robust construction, powerful pump and motor, premium materials, and enhanced stability features of the VINGLI pool filter system.

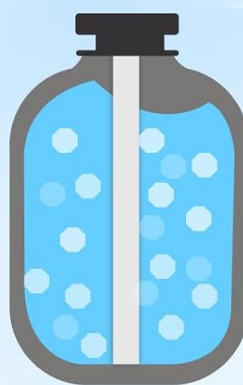
4. SETUP AND INSTALLATION

Follow these steps for proper installation of your VINGLI sand pool filter system:

1. **Placement:** Position the filter system on a firm, level surface, as close to the pool as possible. Ensure it is protected from direct sunlight and harsh weather conditions.
2. **Assemble Base and Tank:** Secure the filter tank to the pump base. The innovative snap-on design ensures stability.
3. **Add Filter Media:**
 - Ensure the standpipe is centered in the tank.
 - Carefully pour the recommended amount of filter sand (approximately 330 lbs for the 24-inch model) or filter balls into the tank. Use a cup or similar tool to prevent sand from entering the standpipe.
 - Wipe any sand from the crevices before placing the multi-port valve.



Sand



Filter Balls



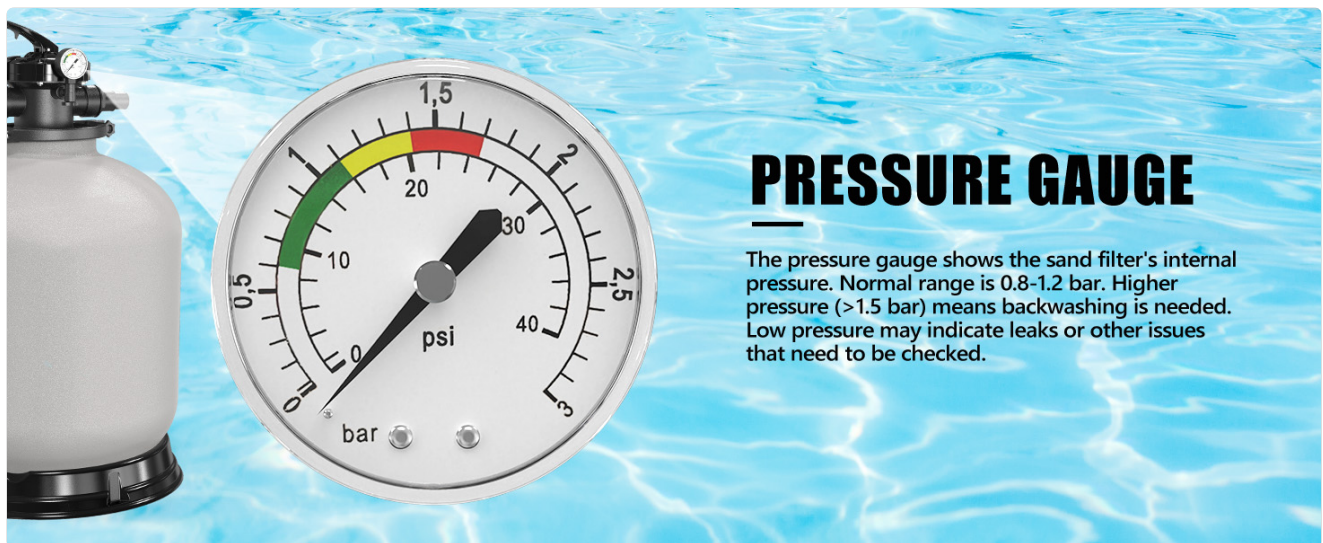
Both Sand and Filter Balls are Applicable.

Figure 3: Illustration showing that both sand and filter balls are suitable filter media for the system.

4. **Install Multi-Port Valve:** Carefully place the multi-port valve onto the top of the filter tank, ensuring it seats properly on the standpipe. Secure it with the provided clamp or bolts.
5. **Connect Pump to Filter:** Connect the pump outlet to the "PUMP" port on the multi-port valve using the provided hose and clamps. Ensure all connections are tight to prevent leaks.
6. **Connect Pool Hoses:**
 - Connect the pool's skimmer/main drain line to the "INLET" port of the pump.
 - Connect the pool's return line to the "RETURN" port on the multi-port valve.
 - Connect a backwash hose to the "WASTE" port on the multi-port valve, directing it to an appropriate drainage area.
7. **Install Pressure Gauge:** Screw the pressure gauge into the designated port on the multi-port valve. Do not overtighten.
8. **Fill with Water:** Before starting the pump, ensure the pool is filled to the appropriate level and all hoses are submerged or filled with water to prime the system.
9. **Electrical Connection:** Plug the pump into a grounded 115V electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI).

5. OPERATING INSTRUCTIONS

The multi-port valve offers 6 functions for comprehensive pool maintenance:



PRESSURE GAUGE

The pressure gauge shows the sand filter's internal pressure. Normal range is 0.8-1.2 bar. Higher pressure (>1.5 bar) means backwashing is needed. Low pressure may indicate leaks or other issues that need to be checked.

Figure 4: Diagram illustrating the 6 functions of the multi-port valve: Filter, Backwash, Rinse, Waste, Recirculate, and Closed.

- **FILTER:** (Normal operating position) Water is pumped through the filter media, and clean water is returned to the pool.
- **BACKWASH:** (Cleaning filter) Reverses water flow through the filter to flush trapped debris out the waste port.
- **RINSE:** (After backwash) Flushes remaining dirty water from the valve and lines to waste, settling the sand bed.
- **WASTE:** (Bypasses filter) Drains water directly from the pool to waste, useful for lowering pool water level or vacuuming heavy debris directly to waste.
- **RECIRCULATE:** (Bypasses filter) Circulates water through the pump and multi-port valve, returning it to the pool without filtering. Useful for chemical distribution.
- **CLOSED:** (Shuts off flow) Closes all flow to the filter and pump. Use for servicing the pump or filter. **Never operate the pump with the valve in the CLOSED position.**

To change valve positions: Always turn off the pump before changing the multi-port valve setting. This prevents damage to the valve and system.

Daily Operation: Run the filter system for an adequate period each day to ensure proper water circulation and filtration. The duration depends on pool size, usage, and environmental factors.

TRANSPARENT DESIGN

For observing water clarity



Figure 5: Close-up of the transparent sight glass, allowing visual inspection of water clarity during operation or backwash.

6. MAINTENANCE

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

6.1. Backwashing the Filter

Backwashing is necessary when the pressure gauge reading is 8-10 PSI above the clean filter starting pressure, or when water flow to the pool noticeably decreases. The normal operating pressure range is 0.8-1.2 bar (approximately 11.6-17.4 PSI).

VINGLI PRESSURE GAUGE



Figure 6: The pressure gauge indicates the filter's internal pressure. A higher reading (e.g., above 1.5 bar) suggests backwashing is required.

1. Turn off the pump.
2. Set the multi-port valve to **BACKWASH**.
3. Turn on the pump. Observe the waste water through the sight glass (if equipped) or the end of the backwash hose. Backwash until the water runs clear (typically 2-3 minutes).
4. Turn off the pump.
5. Set the multi-port valve to **RINSE**.
6. Turn on the pump. Rinse for 30-60 seconds.
7. Turn off the pump.
8. Set the multi-port valve back to **FILTER**.
9. Turn on the pump to resume normal filtration.

6.2. Cleaning the Pump Filter Basket

The transparent filter basket lid allows for visual inspection. Clean the basket regularly to prevent debris buildup,

which can reduce pump efficiency and flow.



ROBUST AND DURABLE CONSTRUCTION DESIGNED FOR LONG-LASTING PERFORMANCE

1

POWERFUL PUMP AND MOTOR.
Advanced motor technology ensures efficient debris removal while maintaining whisper-quiet operation.

2

PREMIUM CONSTRUCTION MATERIALS.
Tank constructed with industrial-grade materials offering superior heat resistance and chemical durability.

3

ENHANCED STABILITY FEATURES.
Innovative snap-on design secures the cylinder and pump to the base, ensuring safety during operation.

Figure 7: Close-up of the transparent filter basket lid, allowing visual inspection of debris accumulation in the pump's pre-filter basket.

1. Turn off the pump and close any necessary valves to prevent water flow.
2. Unscrew the transparent lid of the pump's filter basket.
3. Remove the basket and empty any collected debris.
4. Rinse the basket thoroughly with water.
5. Replace the basket and securely fasten the transparent lid. Ensure the O-ring is properly seated to prevent leaks.
6. Open any closed valves and restart the pump.

6.3. Winterization

For regions with freezing temperatures, proper winterization is crucial to prevent damage:

- Drain all water from the pump, filter tank, and associated plumbing.
- Remove the drain plug from the bottom of the filter tank.
- Remove the multi-port valve and store it in a dry, protected area.
- Store the pump in a dry, heated location.
- Cover the filter tank to protect it from elements.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Low water flow / Low pressure gauge reading	◦ Clogged skimmer or pump basket ◦ Air leak in suction line ◦ Pump not primed ◦ Impeller clogged	◦ Clean skimmer and pump baskets. ◦ Check all connections for tightness. ◦ Ensure pump is filled with water before starting. ◦ Inspect and clean pump impeller.

Problem	Possible Cause	Solution
High pressure gauge reading	◦ Dirty filter sand ◦ Return lines restricted	◦ Perform backwash and rinse cycle. ◦ Check return line valves and ensure they are fully open.
Water leaking from pump or filter	◦ Loose connections ◦ Damaged O-rings or gaskets ◦ Cracked housing	◦ Tighten all hose clamps and fittings. ◦ Inspect and replace any worn O-rings or gaskets. ◦ Contact customer support if housing is cracked.
Pump not starting	◦ No power ◦ Motor overload ◦ Faulty wiring	◦ Check power supply, GFCI, and circuit breaker. ◦ Allow motor to cool; check for obstructions. ◦ Consult a qualified electrician.

8. SPECIFICATIONS

Key specifications for the VINGLI 24-inch Sand Pool Filter with 1.5 HP Pump:

Feature	Detail
Tank Size	24 inches
Pump Horsepower	1.5 HP
Voltage	115V
Flow Rate	Up to 5400 GPH (Gallons Per Hour)
Recommended Max Pool Size	Up to 22,000 gallons
Sand Required	Approx. 330 lbs (for 24-inch tank)
Outlet Size (Hose Connection)	1.5 inches
Product Dimensions	21 x 19 x 15 inches
Item Weight	63.9 pounds
Certifications	UL, ETL Listed

Tank size	Recomm ended Max Pool Size	Gallon Per Hour	Recomm ended pump HP	Sand Required
10in	6600 gallons	1189 GPH	1/3hp	22lbs
12in	8000 gallons	1585 GPH	1/2HP	28lbs
14in	10500 gallons	2087 GPH	3/4HP	55lbs
16in	15000 gallons	3435 GPH	3/4HP	88lbs
19in	18000 gallons	3962 GPH	1HP	132lbs
24in	20000 gallons	4227 GPH	1.5HP	330lbs

Figure 8: Table detailing recommended maximum pool size, GPH, pump HP, and sand required for various VINGLI sand filter tank sizes.

9. WARRANTY AND SUPPORT

For warranty information or technical assistance, please contact VINGLI customer support. Refer to your purchase documentation for specific warranty terms and contact details.

You can often find support resources and contact information on the VINGLI brand store page: [VINGLI Store on Amazon](#).

If you have any questions regarding the product, installation, or operation, do not hesitate to reach out to the manufacturer's support team.

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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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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