

LANCHEZ CLP8005AF-18

LANCHEZ 18-inch Sand Filter Pump User Manual

Model: CLP8005AF-18

1. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before installing, operating, or maintaining this product. Failure to follow these instructions could result in serious injury or death.

- Always disconnect power to the pump before performing any service or maintenance.
- Ensure the pump is installed on a level, solid surface to prevent vibration and movement.
- Do not operate the pump if the power cord or plug is damaged.
- Keep children and pets away from the pump and filter system during operation.
- Never operate the pump dry (without water). This can cause severe damage and void the warranty.
- Ensure all connections are secure and leak-free before starting the system.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

2. PRODUCT OVERVIEW

The LANCHEZ 18-inch Sand Filter Pump is designed for efficient filtration of above-ground pools up to 20,000 gallons. It features a powerful 1.5 HP pump, a durable thermoplastic filter tank, and a versatile 6-way valve for various pool maintenance operations.

Key Features:

- **Integrated Timer:** A 24-hour programmable timer allows for automated filtration cycles, optimizing energy use and maintaining water quality.
- **High Flow Rate:** The 1.5 HP pump delivers a maximum flow of 4900 gallons per hour (GPH), ensuring rapid and thorough water circulation.
- **Durable Construction:** Features a reinforced thermoplastic filter tank and a copper motor for extended lifespan and reduced energy consumption.

- **6-Way Multi-Port Valve:** Provides easy selection of various operational modes for comprehensive pool care.

Components Diagram:



Figure 2.1: Overview of the LANCHEZ 18-inch Sand Filter Pump and its components, including the filter tank, pump, 6-way valve, pressure gauge, and various fittings.



18in Sand Filter Pump with 6-Way Valve
Long-Lasting & Efficient Filtration



3-YEAR AFTER-SALES SERVICE



Figure 2.2: Exploded view showing the individual parts of the filter, pump, base, valve, and hose connections included in the package.

Filter Media Capacity:



Figure 2.3: Illustration detailing the filter media capacity: 150 lbs of sand or 6.2 lbs of filter balls.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your sand filter pump. Follow these steps carefully.

3.1 Site Selection

- Place the filter system on a firm, level surface, preferably concrete or a similar stable base.
- Ensure the location is well-drained and protected from excessive moisture.
- Position the pump as close to the pool as possible to minimize friction loss from long hose runs.
- Allow sufficient space around the filter for maintenance and service.

3.2 Assembly Steps

1. **Attach Base:** Secure the pump and filter tank to the base support.

2. **Install Drain Plug:** Ensure the drain plug at the bottom of the filter tank is securely tightened.
3. **Add Filter Media:**
 - Remove the top cover of the filter tank.
 - Place the filter assembly (laterals) inside the tank.
 - Carefully add the specified amount of filter sand (150 lbs) or filter balls (6.2 lbs). Ensure the central pipe remains upright.
 - Distribute the media evenly.
4. **Install 6-Way Valve:** Place the 6-way valve onto the top of the filter tank, aligning the central pipe with the valve's opening. Secure it with the flange clamp and O-ring.
5. **Connect Pump to Filter:** Connect the pump's discharge port to the "PUMP" port on the 6-way valve using the provided hose and fittings.
6. **Connect Pool Hoses:**
 - Connect the pool's skimmer/suction line to the pump's intake port.
 - Connect the pool's return line to the "RETURN" port on the 6-way valve.
 - Connect a backwash hose to the "WASTE" port on the 6-way valve, directing it to an appropriate drainage area.
7. **Install Pressure Gauge:** Screw the pressure gauge into the designated port on the 6-way valve.

3.3 Priming the Pump

Before starting the pump, it must be primed to ensure it is filled with water and can operate correctly.

1. Ensure the pool water level is adequate.
2. Open all suction and return valves on your pool.
3. Remove the strainer basket lid on the pump. Fill the strainer basket housing with water until it overflows.
4. Replace the strainer basket lid, ensuring it is securely tightened to prevent air leaks.
5. Set the 6-way valve to the "FILTER" position.
6. Connect the pump to a grounded electrical outlet.
7. Turn on the pump. It may take a few minutes for the pump to prime and for water to flow. If the pump does not prime within 5 minutes, turn it off, re-prime, and check for air leaks in the suction line.

4. OPERATING INSTRUCTIONS

Understand the functions of the 6-way valve and the programmable timer for optimal pool filtration.

4.1 6-Way Multi-Port Valve Functions

The 6-way valve allows you to perform various operations. **Always turn off the pump before changing the valve position to prevent damage.**

18IN Sand Filter Pump



6-way Valve



Pressure Gauge



Drain Valve



Clear Cover

Figure 4.1: Visual representation of the 6-way valve settings: Filter, Backwash, Rinse, Waste, Closed, and Recirculate.

- **FILTER:** (Normal filtration) Water is pumped through the filter media, trapping debris, and returned to the pool. This is the primary operating mode.
- **BACKWASH:** (Cleaning filter) Reverses the water flow through the filter to flush trapped debris out the waste port. Used when the pressure gauge reads 8-10 PSI above its clean starting pressure.
- **RINSE:** (After backwash) Used for a short period after backwashing to flush any remaining dirty water from the filter lines to waste, preventing it from returning to the pool.
- **WASTE:** (Bypasses filter) Drains water directly from the pool to the waste port without passing through the filter. Useful for vacuuming heavy debris directly to waste or lowering pool water level.
- **CLOSED:** (Shuts off flow) Stops all water flow to the filter or pump. **Never operate the pump with the valve in the CLOSED position.**
- **RECIRCULATE:** (Bypasses filter) Circulates water through the pump and valve, returning it to the pool without passing through the filter media. Useful for chemical distribution or when the filter is temporarily out of service.

4.2 Programmable Timer

The built-in 24-hour programmable timer allows you to set specific operating times for your pump, ensuring consistent filtration and energy efficiency.



Figure 4.2: The pump features a built-in timer for scheduling filtration cycles, offering both single cycle and continuous cycle modes.

- Refer to the specific timer instructions provided with your unit for detailed programming steps.
- Typically, you will set "ON" and "OFF" times for the pump's operation.
- Adjust filtration duration based on pool size, usage, and water quality. A common recommendation is 8-12 hours per day.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LANCHEZ sand filter pump.

5.1 Backwashing and Rinsing

Backwashing cleans the filter media. Perform backwashing when the pressure gauge reads 8-10 PSI above its clean starting pressure, or when water flow to the pool noticeably decreases.

1. **Turn off the pump.**
2. Set the 6-way valve to the "BACKWASH" position.
3. Turn on the pump. Observe the water flowing out of the waste port (if visible) or through a sight glass (if equipped). Backwash for 2-3 minutes, or until the water runs clear.
4. **Turn off the pump.**
5. Set the 6-way valve to the "RINSE" position.
6. Turn on the pump. Rinse for 30-60 seconds to flush any remaining dirty water from the lines.
7. **Turn off the pump.**
8. Set the 6-way valve back to the "FILTER" position.
9. Turn on the pump to resume normal filtration. Check the pressure gauge; it should now be lower.

5.2 Cleaning the Strainer Basket

The pump's strainer basket collects larger debris before it reaches the impeller. Inspect and clean it regularly, especially if flow decreases.

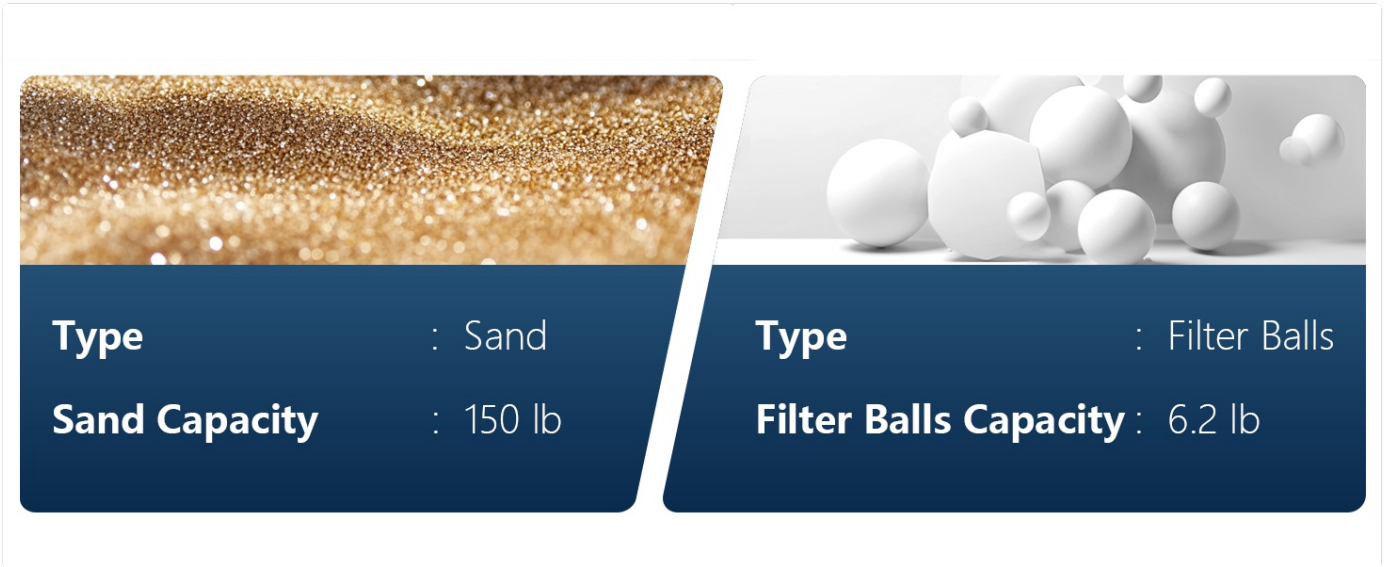


Figure 5.1: The pump features an oversized, removable strainer basket with a clear lid for easy inspection and cleaning of collected debris like hairs, leaves, and gravel.

1. **Turn off the pump and close any necessary valves to prevent water flow.**
2. Unscrew the clear cover of the strainer basket.
3. Remove the basket and empty any debris.
4. Rinse the basket thoroughly with water.
5. Inspect the O-ring on the cover for cracks or wear; replace if necessary.
6. Place the basket back into the housing, ensuring the O-ring is properly seated, and securely tighten the clear cover.
7. Open valves and re-prime the pump if necessary before restarting.

5.3 Winterization

Before freezing temperatures arrive, properly winterize your filter system to prevent damage.

- Drain all water from the pump, filter tank, and all plumbing lines. Remove drain plugs.
- Remove the pressure gauge and store it in a dry place.
- Remove the 6-way valve and store it in a dry, protected area.
- If using sand, it can remain in the tank, but ensure all water is drained. If using filter balls, remove and clean them for storage.
- Store the pump and filter tank in a dry, frost-free location.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your sand filter pump.

Problem	Possible Cause	Solution
Pump not priming / No water flow	• Low pool water level • Air leak in suction line • Strainer basket clogged • Pump not filled with water	• Increase pool water level • Check all connections for tightness, inspect O-rings • Clean strainer basket • Re-prime pump by filling with water
Low water flow to pool	• Dirty filter sand • Strainer basket clogged • Impeller clogged • Partially closed valves	• Backwash and rinse filter • Clean strainer basket • Inspect and clean pump impeller (requires professional service if difficult) • Ensure all valves are fully open
High pressure gauge reading	• Dirty filter sand • Return lines restricted	• Backwash and rinse filter • Check return lines for obstructions
Water returning to pool is cloudy	• Insufficient filtration time • Improper chemical balance • Filter media needs replacement • Damaged laterals in filter tank	• Increase daily filtration hours • Test and adjust pool chemicals • Consider replacing filter sand (typically every 3-5 years) • Inspect laterals for damage

Problem	Possible Cause	Solution
Pump making unusual noise	- Air leak in suction line - Debris in impeller - Motor bearing issue	- Check for air leaks and tighten connections - Clean strainer basket and inspect impeller - Contact customer support if noise persists

7. SPECIFICATIONS

Detailed technical specifications for the LANCHEZ 18-inch Sand Filter Pump.

Specification	Value
Brand	LANCHEZ
Model Number	CLP8005AF-18
Product Dimensions (L x W x H)	24.6" x 23" x 32.3"
Item Weight	25 pounds
Power Source	Corded Electric
Voltage	115 Volts
Wattage	800 watts
Horsepower (HP)	1.5 HP
Maximum Flow Rate	4900 GPH (82 Gallons Per Minute)
Maximum Lifting Height	44 Feet
Filter Tank Size	18 inches
Material	Plastic (Reinforced Thermoplastic)
Sand Capacity	150 lbs
Filter Balls Capacity	6.2 lbs
Recommended Pool Capacity	Up to 20,000 Gallons
Included Components	18in Sand Filter Pump, User Manual

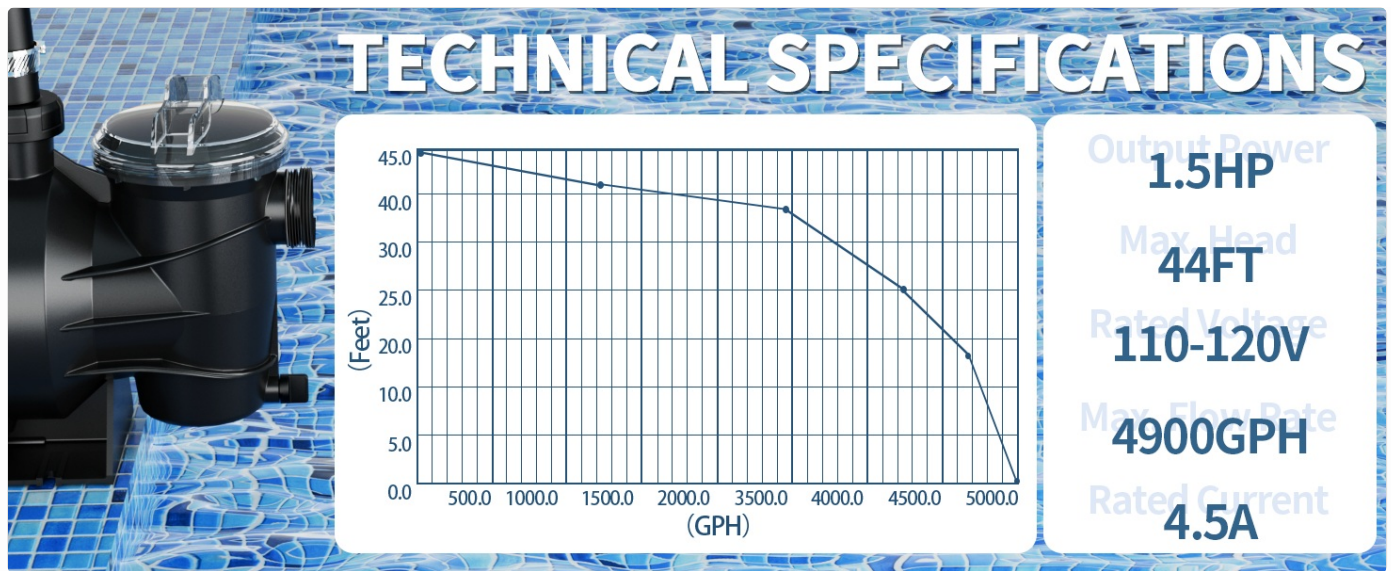


Figure 7.1: Performance curve and key technical specifications including output power, max head, rated voltage, max flow rate, and rated current.

8. WARRANTY AND CUSTOMER SUPPORT

LANCHEZ is committed to providing quality products and customer satisfaction.

8.1 Manufacturer's Warranty

This LANCHEZ 18-inch Sand Filter Pump is backed by a **three-year worry-free manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, neglect, freezing, or unauthorized repairs.

8.2 Customer Support

For technical assistance, troubleshooting guidance, or warranty inquiries, please contact LANCHEZ customer support.

- **Website:** Visit the official LANCHEZ website for support resources and contact information.
- **Email:** Refer to your product packaging or the official website for the customer service email address.
- **Phone:** Refer to your product packaging or the official website for customer service phone numbers.

When contacting support, please have your product model number (CLP8005AF-18) and date of purchase readily available.

© 2025 LANCHEZ. All rights reserved.

For more information, visit [the LANCHEZ Store](#).

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.

Name

Anonymous

Email

you@example.com

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

Answered questions about this manual

How can I purchase a replacement lateral assembly for the LANCHEZ CLP8005AF-18 18-inch Sand Filter Pump?

To purchase a replacement lateral assembly for your LANCHEZ CLP8005AF-18 sand filter pump, you should contact the manufacturer directly, as specific internal replacement parts are often not listed as standalone items on retail sites. According...

[Read full answer](#)