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## LANCHEZ CLP8005AF-18

# LANCHEZ 4900GPH Sand Filter Pump User Manual

Model: CLP8005AF-18

Brand: LANCHEZ

## 1. INTRODUCTION AND PRODUCT OVERVIEW

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Thank you for choosing the LANCHEZ 4900GPH Sand Filter Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pool filtration system. This sand filter pump is designed for above-ground pools up to 20,000 gallons, offering enhanced circulation for crystal-clear water.



Figure 1.1: LANCHEZ 4900GPH Sand Filter Pump with its sand tank and pump unit.

## 2. SAFETY INFORMATION

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Please read all safety warnings and instructions carefully before installing and operating this product. Failure to follow these instructions could result in serious injury or death.

- Always disconnect power to the pump before performing any maintenance or service.
- Ensure the pump is installed on a solid, level surface to prevent vibration and movement.
- Do not operate the pump if the power cord is damaged. Contact qualified personnel for repair.
- Keep children and pets away from the pump and filter system during operation.
- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Never operate the pump dry (without water). This can cause severe damage to the pump.
- Do not use the 'CLOSED' valve setting while the pump is running.

### 3. PACKAGE CONTENTS

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



Figure 3.1: Exploded view of the LANCHEZ Sand Filter Pump components.

#### Included Components:

- 18-inch Filter Tank x 1
- Filter Assembly x 1
- Drain Plug x 1
- Pump x 1
- Base Support x 1
- 6-Way Valve x 1
- Flange Clamp x 1
- O-Ring x 4
- Neck Fitting (Funnel) x 1
- Plug 1/2" 38mm MIP x 1
- Pressure Gauge x 1
- Hose Adaptor x 3
- Hose Clamp x 2
- 1 1/4" (32mm) x 45cm Hose x 1

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your sand filter pump. Follow these steps carefully.

### 4.1 Pool Compatibility

Ensure your pool size is compatible with the filter pump's capacity. This model is suitable for pools up to 20,000 gallons.

#### • POOL SELECTION TIPS

Filter Size	Recommended Max.Pool Size	Max. flow rate (GPH)	Sand Capacity
12in	7000	2400	55lbs
13in	11000	3500	70lbs
16in	16000	4900	100lbs
18in	20000	4900	150lbs



Figure 4.1: Pool Selection Tips based on filter size and capacity.

### 4.2 Sand or Filter Ball Capacity

The filter tank requires either 150 lbs of filter sand or 6.2 lbs of filter balls.

# 4900 GPH LARGE FLOW



 **18 IN**

**150 LB**  
Filter Sand

**6.2 LB**  
Filter Balls

Figure 4.2: Capacity details for filter media.

### 4.3 Assembly Steps:

1. Place the filter tank on the base support on a firm, level surface near your pool.
2. Carefully add the specified amount of filter sand or filter balls into the tank.
3. Attach the 6-way valve to the top of the filter tank, ensuring a secure and watertight seal with the flange clamp and O-ring.
4. Connect the pump to the filter tank using the provided hose and fittings. Ensure all connections are tight, using pipe tape where necessary to prevent leaks.
5. Connect the pump's inlet and outlet ports to your pool's skimmer and return lines, respectively. Additional hoses may be required (not included).
6. Ensure the pre-filter basket is correctly seated in the pump's strainer housing.
7. Fill the pool with water to the appropriate level before starting the pump.

## 5. OPERATING INSTRUCTIONS

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Understanding the 6-way valve and timer functions is key to effective pool filtration.

## 5.1 6-Way Valve Functions

The multi-port valve allows you to perform various operations for pool maintenance. Always turn off the pump before changing the valve position.



Figure 5.1: 6-Way Valve positions and their functions.

- **1. FILTER:** Normal filtering mode. Water passes through the sand bed, cleaning the pool.
- **2. BACKWASH:** Reverses water flow through the filter to clean the sand bed. Water is discharged to waste.
- **3. RINSE:** Used after backwashing to flush out any remaining debris from the filter before returning to FILTER mode. Water is discharged to waste.
- **4. WASTE:** Bypasses the filter and sends water directly to waste. Useful for vacuuming heavy debris or lowering pool water level.
- **5. CLOSED:** Stops all water flow to the filter and pump. *Never use this setting while the pump is running.*
- **6. RECIRCULATE:** Bypasses the filter and circulates water directly back to the pool. Useful for mixing chemicals without filtering.

## 5.2 Timer Operation

The integrated timer allows for automated daily filtration cycles.

# SWIMMING POOL TIMING PLAN

In just two steps

**Step 1**  
Set running hours

**Step 2**  
Turn on the pump

24-hour mode for constant filtration

# TIPS

The time activate the timer becomes the daily start time.

Figure 5.2: Pump control panel with timer settings.

1. **Step 1: Set Running Hours.** Use the timer button to select the desired daily operating duration.
2. **Step 2: Turn on the Pump.** Activate the pump. The time you activate the timer becomes the daily start time for subsequent cycles.
3. **24-hour Mode:** An option for constant filtration if desired.

## 6. MAINTENANCE

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

### 6.1 Pre-Filter Basket Cleaning

The integrated pre-filter captures coarse debris like hair, leaves, and gravel, preventing them from reaching the pump impeller and main filter. It features a see-through lid for easy inspection and a detachable basket

for cleaning.

# PREFILTER COARSE FILTRATION VIA INTEGRATED PRE-FILTER



Figure 6.1: Detailed view of the integrated pre-filter and strainer basket.

- Regularly check the pre-filter basket through the clear lid.
- When debris is visible, turn off the pump and disconnect power.
- Carefully remove the lid and lift out the basket.
- Empty and rinse the basket thoroughly.
- Replace the basket and secure the lid, ensuring a proper seal.

## 6.2 Backwashing and Rinsing

Backwashing cleans the sand filter bed, and rinsing settles the sand before returning to normal filtration.

1. Turn off the pump.
2. Set the 6-way valve to the **BACKWASH** position.
3. Turn on the pump and run until the water in the sight glass (if present) runs clear (typically 2-3 minutes).
4. Turn off the pump.
5. Set the 6-way valve to the **RINSE** position.

6. Turn on the pump and run for 30-60 seconds.
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.



Figure 6.2: Visual representation of effective filtration.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump not starting or no power	No power supply; tripped breaker; faulty wiring.	Check power outlet and circuit breaker. Ensure all connections are secure. Consult an electrician if necessary.

Problem	Possible Cause	Solution
Low water flow or pressure	Clogged pre-filter basket; dirty sand filter; air in the system; restricted plumbing.	Clean pre-filter basket. Backwash and rinse the sand filter. Bleed air from the system. Check hoses for kinks or blockages.
Water not clearing (cloudy pool)	Insufficient filtration time; dirty filter sand; improper chemical balance; filter media channeling.	Increase filtration time. Perform backwash and rinse. Test and adjust pool chemistry. Consider replacing sand if old.
Water leaking from pump or valve	Loose connections; worn O-rings/gaskets; cracked housing.	Tighten all connections. Inspect and replace O-rings or gaskets as needed. Contact customer service for cracked components.
Difficulty removing pump basket lid	Lid overtightened; O-ring stuck or dry.	Apply gentle, firm pressure. Try tapping lightly with a rubber mallet. Lubricate O-ring with silicone lubricant.
Pump making unusual noise	Air in the system (cavitation); debris in impeller; worn bearings.	Bleed air from the system. Check pre-filter basket and impeller for debris. If noise persists, contact customer service.

## 8. SPECIFICATIONS

Key technical specifications for the LANCHEZ 4900GPH Sand Filter Pump.

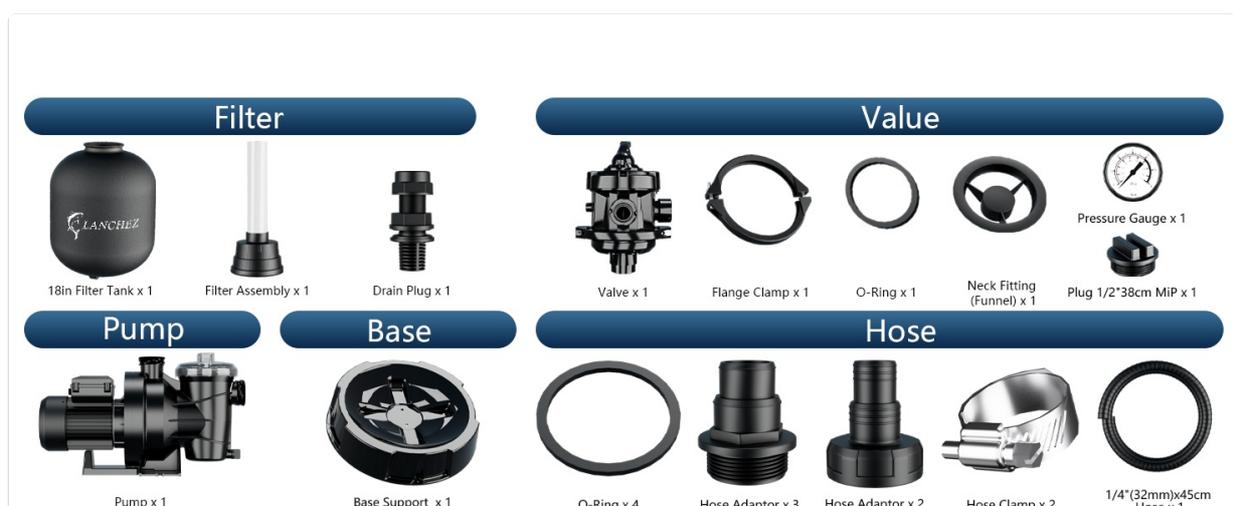


Figure 8.1: Technical Specifications and Performance Curve.

- **Product Dimensions:** 24.6 x 23 x 32.3 inches
- **Item Model Number:** CLP8005AF-18
- **Manufacturer:** LANCHEZ
- **Max Flow Rate:** 4900 GPH (Gallons Per Hour)

- **Output Power:** 1.5 HP
- **Max Head:** 44 FT
- **Rated Voltage:** 110-120V
- **Rated Current:** 4.5A
- **Sand Capacity:** 150 lbs
- **Filter Balls Capacity:** 6.2 lbs

## 9. WARRANTY AND CUSTOMER SUPPORT

LANCHEZ is committed to providing quality products and excellent customer service.

### 9.1 Warranty Information

This product comes with a **3-Year After-Sales Service**. Please retain your proof of purchase for warranty claims.



Figure 9.1: LANCHEZ After-Sales Service commitment.

### 9.2 Customer Support

For any questions, troubleshooting assistance, or warranty claims, please contact LANCHEZ customer service. We offer **24/7 Customer Service** to assist you.



Figure 9.2: LANCHEZ Customer Support details.

Please visit the [LANCHEZ Store on Amazon](#) for more information and products.

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