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› LANCHEZ 18in Sand Filter Pump Instruction Manual

LANCHEZ LZ-CLP8005AF-18

LANCHEZ 18in Sand Filter Pump Instruction Manual

Model: LZ-CLP8005AF-18

Brand: LANCHEZ

1. PRODUCT OVERVIEW

The LANCHEZ 18in Sand Filter Pump is designed for efficient and reliable filtration of above-ground pools. Featuring a powerful 1.5HP pump, a 6-way multi-port valve, and a programmable timer, this system ensures crystal-clear water with minimal effort. It is suitable for pools up to 20,000 gallons.



Figure 1.1: LANCHEZ 18in Sand Filter Pump and Tank Assembly.



Figure 1.2: Overview of the LANCHEZ Sand Filter Pump system, highlighting its 6-way valve and 3-year after-sales service.

2. SAFETY INFORMATION

Please read this manual thoroughly before installation, operation, or maintenance. Failure to follow instructions can result in serious injury or property damage.

- Always disconnect power before servicing the pump or filter.
- Ensure the pump is installed on a solid, level surface.
- Do not operate the pump dry. Always ensure the pump is primed with water before starting.
- Keep children and pets away from the pool equipment area.
- All electrical connections must comply with local codes and regulations.
- Do not operate the filter system if any part is damaged or missing.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning assembly.



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

Table 3.1: Included Components

Component	Quantity
18in Filter Tank	1
Pump (1.5HP)	1
Filter Assembly	1
Drain Plug	1
Base Support	1
6-Way Valve	1
Flange Clamp	1
O-Ring (for valve)	1
Neck Fitting (Funnel)	1
Plug 1/2" 38mm MIP	1
Pressure Gauge	1
O-Ring (for pump)	4
Hose Adaptor	3
Hose Clamp	2
1 1/4" (32mm) x 45cm Hose	1

4. SPECIFICATIONS

Table 4.1: Product Specifications

Attribute	Value
Brand	LANCHEZ
Model Number	LZ-CLP8005AF-18
Color	Black
Material	Plastic
Product Dimensions (L x W x H)	24.6" x 23" x 32.3"
Power Source	Corded Electric
Voltage	115 Volts
Pump Horsepower	1.5 HP
Maximum Flow Rate	4900 GPH (82 Gallons Per Minute)

Attribute	Value
Maximum Lifting Height	44 Feet
Item Weight	25 pounds
Recommended Pool Capacity	Up to 20,000 Gallons
Sand Capacity	150 lbs
Filter Balls Capacity	6.2 lbs



STRAINER FILTER BASKET

The filter is designed with an oversized basket that is removable for easy cleaning; the see-through lid gives you a clear view of the interior.



Hairs



Leaves



Gravel

Figure 4.1: Technical specifications and performance curve.

Filter



18in Filter Tank x 1



Filter Assembly x 1



Drain Plug x 1

Value



Valve x 1



Flange Clamp x 1



O-Ring x 1



Neck Fitting (Funnel) x 1



Pressure Gauge x 1



Plug 1/2*38cm MiP x 1

Pump



Pump x 1

Base



Base Support x 1

Hose



O-Ring x 4



Hose Adaptor x 3



Hose Adaptor x 2



Hose Clamp x 2



1/4" (32mm)x45cm Hose x 1

Figure 4.2: Pool Selection Tips based on filter size.

5. SETUP AND INSTALLATION

5.1 Site Selection

Choose a location for the filter system that is level, well-drained, and as close to the pool as possible to minimize friction loss from plumbing. Ensure adequate ventilation and protection from direct sunlight and harsh weather.

5.2 Assembly Steps

1. Place the filter tank base on the selected level surface.
2. Carefully place the filter tank onto the base.
3. Insert the filter assembly (laterals) into the tank, ensuring they are properly seated at the bottom.
4. Fill the filter tank with the appropriate amount of filter sand (150 lbs) or filter balls (6.2 lbs). Ensure the standpipe is centered during this process.
5. Attach the 6-way multi-port valve to the top of the filter tank, aligning it with the standpipe. Secure with the flange clamp.
6. Connect the pump to the filter tank using the provided plumbing. Ensure all connections are tight and sealed with O-rings.
7. Connect the pool hoses to the pump's inlet and the valve's outlet. The pump inlet connects to the pool skimmer/main drain, and the valve outlet connects to the pool return jet.
8. Connect the waste port of the 6-way valve to a suitable waste line or area.

5.3 Priming the Pump

Before starting the pump for the first time, it is crucial to prime it to prevent damage from dry running.

1. Ensure the pool water level is adequate.
2. Open the pump's strainer basket lid.
3. Fill the strainer basket housing completely with water.
4. Replace the strainer basket lid securely.
5. Set the 6-way valve to the "FILTER" position.
6. Turn on the pump. It should begin to draw water and expel air. If it does not prime within a few minutes, turn it off, refill the basket, and try again.

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 5.1: The pump's control panel with timing plan steps.

Your browser does not support the video tag.

Video 5.1: Demonstration of the LANCHEZ Sand Filter Pump, including priming the pump, operating the 6-way valve, and setting the timer.

This video provides a visual guide to the setup and initial operation of the filter system.

6. OPERATING INSTRUCTIONS

6.1 6-Way Multi-Port Valve Functions

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

6 WAY VALVE



1 FILTER



2 BACKWASH



3 RINSE



4 WASTE



5 CLOSED



6 RECIRCULATE



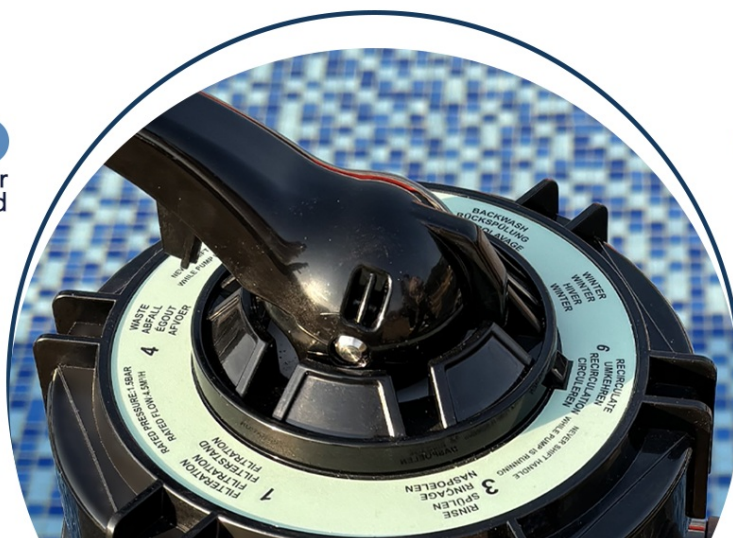
Figure 6.1: The 6-way multi-port valve on the filter.



FILTER 1
Clean water
through sand

BACKWASH 2
Reverses flow
to clean filter

RINSE 3
Clears debris after
backwashing



4 WASTE
Removes pool
water directly

5 CLOSED
Stops water flow
• Never use while pump is on

6 RECIRCULATE
Mixes pool water
without filtering

Figure 6.2: Detailed functions of the 6-way valve.

- **1. FILTER:** Normal filtering operation. Water flows through the filter media and returns to the pool.
- **2. BACKWASH:** Reverses water flow through the filter to clean the filter media. Water is discharged through the waste port.
- **3. RINSE:** Used after backwashing to flush dirty water from the valve and settle the filter media. Water is discharged through the waste port.
- **4. WASTE:** Bypasses the filter and pumps water directly out of the pool through the waste port. Useful for vacuuming heavy debris or lowering pool water level.
- **5. CLOSED:** Shuts off all flow to the filter and pump. **Never use while the pump is running.**
- **6. RECIRCULATE:** Bypasses the filter and circulates water directly back to the pool. Useful for mixing chemicals without filtering.

6.2 Timer Operation

The built-in 24-hour programmable timer allows for automated filtration cycles, saving energy and maintaining optimal water circulation.

1. **Set Running Hours:** Use the control panel buttons to set the desired daily operating hours.
2. **Activate Timer:** Once set, the time you activate the timer becomes the daily start time for the filtration cycle.
3. **24-Hour Mode:** For continuous filtration, select the 24-hour mode if available on your model.

7. MAINTENANCE

7.1 Strainer Basket Cleaning

The pump features an integrated pre-filter with a large, detachable strainer basket to capture coarse debris like hair, leaves, and gravel before it reaches the pump impeller. Regularly inspect and clean this basket.

PREFILTER

COARSE FILTRATION VIA INTEGRATED PRE-FILTER



ADDITIONAL FILTER

The integrated pre-filter ensures that coarse debris such as hair, leaves or gravels are filtered out in advance



Hairs



Leaves



Gravel



See-Through Lid
Clear View to Timely



Filter Basket
Detachable for Easy Cleaning



Figure 7.1: The pump's prefilter with a clear lid and removable strainer basket.

• 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 7.2: Details of the strainer filter basket and its coarse filtration capability.

1. Turn off the pump and disconnect power.
2. Close any necessary valves to prevent water flow from the pool.
3. Unscrew the clear lid of the strainer basket housing.
4. Remove the basket and empty any collected debris.
5. Rinse the basket thoroughly with water.
6. Inspect the O-ring on the lid for cracks or wear; replace if necessary.
7. Place the clean basket back into the housing and securely fasten the lid.
8. Reopen valves and restore power to the pump.

7.2 Backwashing and Rinsing

Backwashing cleans the filter media by reversing water flow. Rinse is performed after backwashing to settle the media.

1. Turn off the pump.
2. Set the 6-way valve to the "BACKWASH" position.
3. Turn on the pump. Observe the sight glass (if present) or the waste discharge. Continue backwashing until the water 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. Rinse for 30-60 seconds to settle the filter media.
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.

7.3 Winterization

For regions with freezing temperatures, properly winterize your filter system to prevent damage:

- Drain all water from the pump, filter, and plumbing lines.
- Remove the drain plug from the bottom of the filter tank.
- Remove the pump's drain plugs.
- Store the pump and valve in a dry, frost-free location.
- Cover the filter tank to protect it from elements.

8. TROUBLESHOOTING

Table 8.1: Common Issues and Solutions

Problem	Possible Cause	Solution
Pump not priming or low flow	Air leak in suction line; low water level; clogged strainer basket; pump not filled with water.	Check all connections for leaks; ensure adequate pool water level; clean strainer basket; re-prime pump.
Cloudy pool water	Dirty filter media; insufficient filtration time; improper chemical balance.	Backwash and rinse filter; increase daily filtration hours; test and adjust pool chemistry.

Problem	Possible Cause	Solution
Pump not starting	No power; tripped breaker; motor issue.	Check power supply and breaker; consult a qualified electrician if motor hums but doesn't start.
Water leaking from valve	Worn O-rings; loose connections.	Inspect and replace O-rings; tighten all connections.

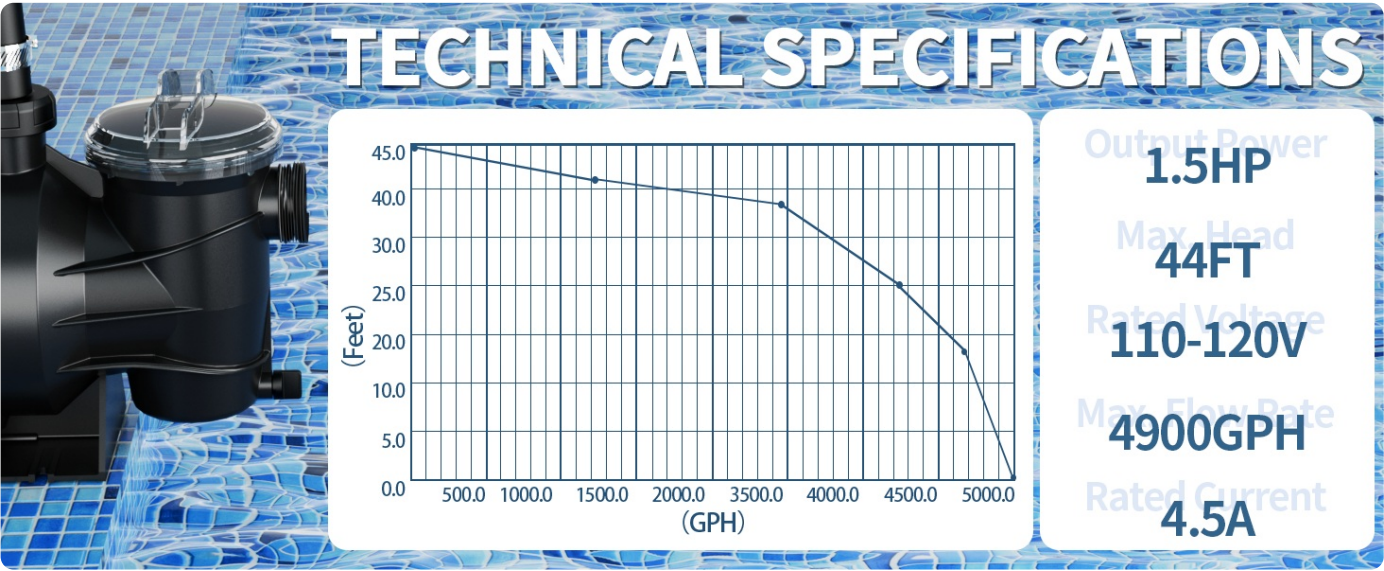


Figure 8.1: Visual representation of effective filtration.

9. WARRANTY AND SUPPORT

The LANCHEZ 18in Sand Filter Pump is backed by a three-year worry-free manufacturer after-sales service. This warranty covers defects in materials and workmanship under normal use and service. For warranty claims, technical support, or replacement parts, please refer to your purchase documentation for contact information or visit the official LANCHEZ website. Please have your model number (LZ-CLP8005AF-18) and proof of purchase ready when contacting support.

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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.

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