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› LANCHEZ 13-inch Sand Filter Pump User Manual

LANCHEZ LZ-CLP5503

LANCHEZ 13-inch Sand Filter Pump User Manual

Model: LZ-CLP5503 | Brand: LANCHEZ

1. INTRODUCTION

This manual provides essential instructions for the safe operation, installation, and maintenance of your LANCHEZ 13-inch Sand Filter Pump. Please read this manual thoroughly before operating the unit to ensure proper function and longevity of your pool filtration system. This sand filter pump is designed for above-ground pools, offering efficient water filtration with a 7-way valve for versatile control.



Image 1.1: Overview of the LANCHEZ 13-inch Sand Filter Pump, highlighting its 13-inch tank, 11,000-gallon pool capacity, 70 pounds sand capacity, and 2.2 pounds filter balls capacity.

2. SAFETY INFORMATION

WARNING: Failure to follow these instructions can result in serious injury or death.

- Always disconnect power to the pump before performing any service or maintenance.
- Ensure the pump is connected to a grounded outlet protected by a Ground Fault Circuit Interrupter (GFCI).
- Do not operate the pump if the power cord is damaged. Contact qualified service personnel for repair.
- Never operate the pump dry. Ensure the pump is fully primed with water before starting.
- Keep children and unauthorized persons away from the pump and pool area during operation.
- Install the pump on a solid, level surface, away from the pool edge to prevent accidental submersion.
- Do not bury the electrical cord.

3. PACKAGE CONTENTS

Verify that all components are present before beginning assembly:

- 13-inch Sand Filter Tank
- Filter Assembly
- Drain Plug
- Pump (0.75 HP)
- Base Support
- 7-Way Valve
- Flange Clamp
- O-Rings (various sizes)
- Neck Fitting (Funnel)
- Plug 1/2" 38mm MIP
- Pressure Gauge
- Hose Adaptors
- Hose Clamps
- 1/4" (32mm x 45cm) Hose
- 0.44lb Filter Balls (initial quantity)
- User Manual



Image 3.1: Detailed breakdown of all included parts for the LANCHEZ sand filter pump system, categorized into Filter, Pump, Base, Valve, and Hose components.

4. SETUP AND INSTALLATION

Follow these steps for proper assembly and installation of your sand filter pump:

1. **Site Selection:** Choose a level, firm location for the pump, preferably on a concrete slab or sturdy base, within 10 feet of the pool. Ensure adequate drainage.
2. **Assemble Base:** Attach the pump and filter tank to the base support as per the included diagrams.
3. **Add Filter Media:** Remove the multi-port valve and carefully pour the recommended amount of filter sand (70 lbs) or filter balls (2.2 lbs) into the tank. Ensure the standpipe is centered during this process.
4. **Install Multi-Port Valve:** Place the 7-way valve onto the filter tank, ensuring the O-ring is properly seated. Secure with the flange clamp.

5. **Connect Pump to Filter:** Attach the pump to the filter tank using the provided hose and clamps.
6. **Connect Hoses to Pool:** Connect the inlet and outlet hoses from the pump/filter system to your pool's skimmer and return lines. Ensure all connections are tight to prevent leaks.
7. **Prime the Pump:** Before starting, ensure the pump basket is filled with water. Open all necessary valves to allow water to flow from the pool to the pump.
8. **Electrical Connection:** Plug the pump into a GFCI-protected 115V electrical outlet.

13IN Sand Filter Pump



7-way Valve



Pressure Gauge



Clear Cover



Drain Valve

Image 4.1: Key components of the 13-inch Sand Filter Pump, including the 7-way valve, pressure gauge, clear cover for the pump basket, and drain valve.

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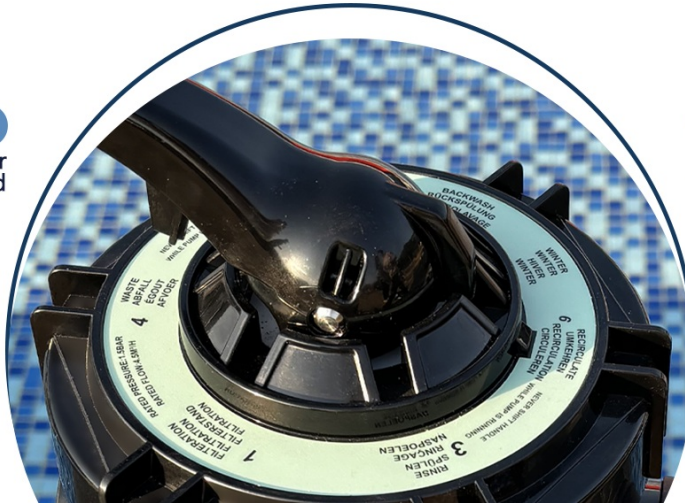
Video 4.2: An official instructional video from Lanchez Pumps Industry Inc. demonstrating the setup process for a LANCHEZ Sand Filter Pump System. This video provides a visual guide to assembly and initial connection.



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

Image 4.3: A table providing pool selection tips, correlating filter size (in inches) with recommended maximum pool size (gallons), maximum flow rate (GPH), and sand capacity (lbs).

5. OPERATING INSTRUCTIONS

The 7-way multi-port valve allows for various operational modes. **Always turn off the pump before changing the valve position.**

- **FILTER:** This is the standard operating mode for daily filtration. Water passes through the filter media, and clean water returns to the pool.
- **BACKWASH:** Used to clean the filter media. Water flow is reversed, flushing accumulated debris out through the waste port. Perform when pressure gauge reads 8-10 PSI above starting pressure.
- **RINSE:** Used after backwashing to flush any remaining debris from the valve and filter lines to the waste port, preventing it from returning to the pool.
- **WASTE:** Bypasses the filter and sends water directly out the waste port. Useful for lowering pool water level or vacuuming heavy debris directly to waste.
- **CLOSED:** Shuts off all flow to the filter and pump. Never use this setting while the pump is running.
- **RECIRCULATE:** Bypasses the filter and circulates water directly back to the pool. Useful for mixing chemicals without filtering.
- **WINTER:** Position for winterizing the filter system.



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- FILTER 1**
- BACKWASH 2**
- RINSE 3**
- WASTE 4**
- CLOSED 5**
- RECIRCULATE 6**
- WINTER 7**



Image 5.1: Close-up view of the 7-way valve, clearly labeling each function: Filter, Backwash, Rinse, Waste, Closed, Recirculate, and Winter.

• 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



Image 5.2: An illustrative diagram detailing the purpose of each of the 7-way valve settings: Filter, Backwash, Rinse, Waste, Closed, and Recirculate.



Image 5.3: Visual comparison of pool water clarity before and after using the LANCHEZ sand filter pump, demonstrating effective filtration.

6. MAINTENANCE

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

- **Backwashing and Rinsing:** Perform backwashing when the pressure gauge indicates a rise of 8-10 PSI above the clean filter pressure. Follow with a rinse cycle.
- **Strainer Basket Cleaning:** Regularly inspect and clean the pump's strainer basket. Turn off the pump, close necessary valves, remove the clear cover, empty debris, and replace.
- **Filter Media Replacement:** Sand filter media typically lasts 3-5 years. Filter balls may require cleaning or replacement more frequently depending on usage.
- **Winterizing:** Before freezing temperatures, drain all water from the pump, filter, and hoses. Store the pump and filter in a dry, protected area.



Image 6.1: Illustration of the strainer filter basket, designed to capture hairs, leaves, and gravel, with a clear lid for easy inspection.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Low water flow / Poor filtration	Clogged strainer basket Dirty filter media Air leak in suction line Low water level in pool	Clean strainer basket Perform backwash and rinse cycle Check all connections for leaks Add water to pool
Pump not starting	No power Motor obstruction Thermal overload tripped	Check power supply and GFCI Inspect impeller for debris (with power off) Allow motor to cool, then restart
Water returning to pool is cloudy	Insufficient backwashing Damaged filter media Chemical imbalance	Perform thorough backwash and rinse Inspect/replace filter sand or balls Test and adjust pool chemistry
Water leaking from pump/filter	Loose connections Damaged O-rings/gaskets	Tighten all hose clamps and fittings Inspect and replace worn O-rings/gaskets

8. SPECIFICATIONS

Feature	Specification
Model Number	LZ-CLP5503
Tank Size	13 inches
Horsepower	0.75 HP
Maximum Flow Rate	3500 GPH (58 Gallons Per Minute)
Voltage	115 Volts
Sand Capacity	70 lbs
Filter Balls Capacity	2.2 lbs
Product Dimensions (L x W x H)	24.8" x 15.35" x 19.68"

Feature	Specification
Valve Type	7-Way Multi-Port Valve
Material	Plastic (Reinforced Thermoplastic)

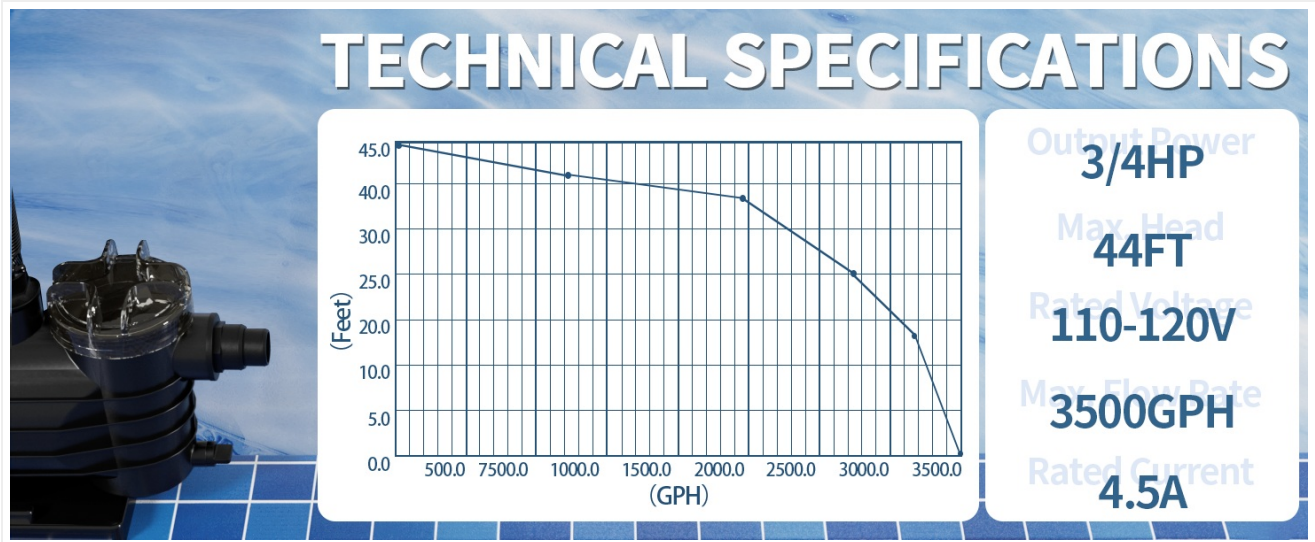


Image 8.1: Information on the filter media capacity, specifying 70 lbs for sand and 2.2 lbs for filter balls. Note that the product includes 0.44 lbs of filter balls.

9. WARRANTY AND SUPPORT

The LANCHEZ 13-inch Sand Filter Pump is backed by a **three-year manufacturer after-sales service**. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or replacement parts, please contact LANCHEZ customer service. Refer to the contact information provided on the product packaging or the official LANCHEZ website.

Please retain your proof of purchase for warranty validation.