Astralpool Aster 99- Ø 500

Astralpool Aster 99- Sand Filter with Valve (Ø 500) - Instruction Manual

Model: Aster 99- Ø 500

1. Product Overview

The Astralpool Aster 99- Sand Filter is a high-performance filtration system designed for swimming pools. Constructed from laminated polyester and fiberglass, this filter ensures durability and efficient water purification. It features a lateral selector valve, a manometer for pressure monitoring, and a drain valve for easy water emptying. This manual provides essential information for the safe and effective installation, operation, and maintenance of your filter.

- **Construction:** Laminated polyester and fiberglass for enhanced durability.
- **Components:** Equipped with a manometer, drain valve, and lateral selector valve.
- **Maximum Working Pressure:** 2.5 kg/cm².
- **Maximum Filtration Capacity:** 50 m³/h/m².

2. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your Astralpool Aster 99- Sand Filter. Ensure all connections are secure and watertight.

2.1. Site Selection

Choose a level, solid surface for the filter, preferably close to the pool pump and the pool itself. The location should be protected from direct sunlight and adverse weather conditions, and allow sufficient space for maintenance and operation.

2.2. Filter Assembly

1. **Position the Filter:** Place the filter tank on its designated base.
2. **Add Filter Media:** Carefully fill the filter tank with the appropriate amount and type of filter sand (or other media) as recommended by Astralpool. Ensure the central pipe is protected during this process to prevent

sand from entering it.

3. **Install Multi-Port Valve:** Attach the lateral selector valve to the top of the filter tank. Ensure the O-ring is correctly seated and the clamp is securely fastened.
4. **Connect Plumbing:** Connect the pump outlet to the "PUMP" port on the valve, the pool return line to the "RETURN" port, and the waste line to the "WASTE" port. Use appropriate fittings and sealants to prevent leaks.
5. **Manometer Installation:** Screw the manometer into its designated port on the multi-port valve.
6. **Drain Valve:** Ensure the drain valve at the bottom of the filter is closed.

Figure 1: Technical drawing of the Astralpool Aster 99- Sand Filter, illustrating key dimensions (D, H, M, N, K) and overall structure. This diagram helps in understanding the physical layout and connection points of the filter.

3. Operating Instructions

The multi-port valve controls the filter's operation. Always turn off the pump before changing the valve position to prevent damage.

3.1. Valve Positions

- **FILTER:** Normal filtration mode. Water flows through the filter media and returns to the pool.
- **BACKWASH:** Cleans the filter media by reversing water flow. Water is discharged through the waste line.
- **RINSE:** Used after backwashing to settle the filter media and flush out any remaining debris from the waste line.
- **WASTE/DRAIN:** Bypasses the filter, sending water directly to the waste line. Useful for vacuuming heavy debris or lowering pool water level.
- **RECIRCULATE:** Bypasses the filter, circulating water directly back to the pool. Useful for chemical distribution without filtration.
- **CLOSED:** Shuts off all flow to the filter and pool. Use for pump maintenance or when the filter is not in use.

3.2. Initial Startup

1. Ensure the filter is filled with sand and all connections are secure.
2. Set the multi-port valve to the "BACKWASH" position.
3. Turn on the pump and backwash for 2-3 minutes, or until the water in the sight glass (if present) runs clear.
4. Turn off the pump.
5. Set the valve to the "RINSE" position.
6. Turn on the pump and rinse for 30-60 seconds.
7. Turn off the pump.
8. Set the valve to the "FILTER" position.
9. Turn on the pump. The filter is now operating in normal filtration mode.

4. Maintenance

Regular maintenance ensures efficient filtration and extends the life of your Astralpool Aster 99- Sand Filter.

4.1. Backwashing

Backwash the filter when the pressure gauge reading is 0.2-0.3 kg/cm² (3-5 psi) above the clean filter's starting pressure, or when pool water clarity decreases.

1. Turn off the pump.
2. Set the multi-port valve to "BACKWASH".
3. Turn on the pump and backwash until the water in the sight glass runs clear (typically 2-3 minutes).
4. Turn off the pump.
5. Set the valve to "RINSE".
6. Turn on the pump and rinse for 30-60 seconds.
7. Turn off the pump.
8. Set the valve to "FILTER".
9. Turn on the pump to resume normal filtration.

4.2. Winterization (if applicable)

In colder climates, proper winterization is essential to prevent freeze damage.

- Drain all water from the filter tank by opening the drain valve.
- Remove the manometer and store it in a warm, dry place.
- Set the multi-port valve handle between two positions (e.g., between "FILTER" and "CLOSED") to relieve pressure on the internal seal.
- Disconnect all plumbing and store pipes if necessary.

5. Troubleshooting

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

Problem	Possible Cause	Solution
Low water flow / High pressure gauge reading	Clogged filter media; dirty pump strainer basket; closed valve.	Backwash the filter; clean pump strainer basket; ensure all valves are open.

Problem	Possible Cause	Solution
Cloudy pool water	Insufficient filtration time; dirty filter media; improper chemical balance; damaged internal components.	Increase filtration time; backwash/rinse filter; check pool chemistry; inspect filter internals for damage.
Water leaking from valve	Worn O-rings or gaskets; loose clamp.	Inspect and replace O-rings/gaskets; tighten clamp.
Sand returning to pool	Damaged laterals inside filter; improper rinsing after backwash.	Perform a thorough rinse cycle; inspect and replace damaged laterals.

6. Technical Specifications

Detailed specifications for the Astralpool Aster 99- Sand Filter (Ø 500 model).

- **Model:** Aster 99- Ø 500
- **Construction Material:** Laminated Polyester and Fiberglass
- **Valve Type:** Lateral Selector Valve
- **Included Accessories:** Manometer, Drain Valve
- **Maximum Working Pressure:** 2.5 kg/cm²
- **Maximum Filtration Capacity:** 50 m³/h/m²

6.1. Dimensions (for Ø 500 model)

Dimension	Value (mm)
Ø (Diameter)	500
D (Overall Diameter)	500
H (Height)	855
M (Valve Height from Base)	415
N (Lower Port Height from Base)	290
K (Port Size)	1 1/2"

Note: Dimensions are approximate and subject to manufacturing tolerances. Refer to Figure 1 for visual representation of dimensions.

7. Warranty Information

Specific warranty details for Astralpool products are typically provided at the point of purchase or within separate warranty documentation. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the official Astralpool website or contact your authorized dealer.

8. Customer Support

For technical assistance, spare parts, or further inquiries regarding your Astralpool Aster 99- Sand Filter, please

contact your local Astralpool dealer or visit the official Astralpool website.

Astralpool Official Website: www.astralpool.com

© 2023 Astralpool. All rights reserved. Information in this manual is subject to change without notice.