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AQUASTRONG PSP150-HV

Aquastrong 1.5HP Single Speed Pool Pump (PSP150-HV)

Instruction Manual

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your Aquastrong 1.5HP Single Speed Pool Pump, model PSP150-HV. This pump is designed for efficient water circulation in both in-ground and above-ground swimming pools. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the product.



Figure 1: Aquastrong 1.5HP Single Speed Pool Pump (Matta Blue)

2. Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and injury to persons. This pump operates on 220V and is equipped with a UL-certified power cord and an ETL-certified motor for safety. Ensure all electrical connections are made by a qualified electrician and comply with local codes.

- **Electrical Safety:** Disconnect power before servicing. Ensure the power supply matches the pump's voltage (220V).
- **Grounding:** The pump must be properly grounded to reduce the risk of electric shock.
- **Water and Electricity:** Never operate the pump if water is present around the electrical components. Keep the pump away from standing water.
- **Children:** Keep children away from the pump and electrical connections.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from direct sunlight and excessive moisture.
- **Overheating:** Do not block ventilation openings on the motor.

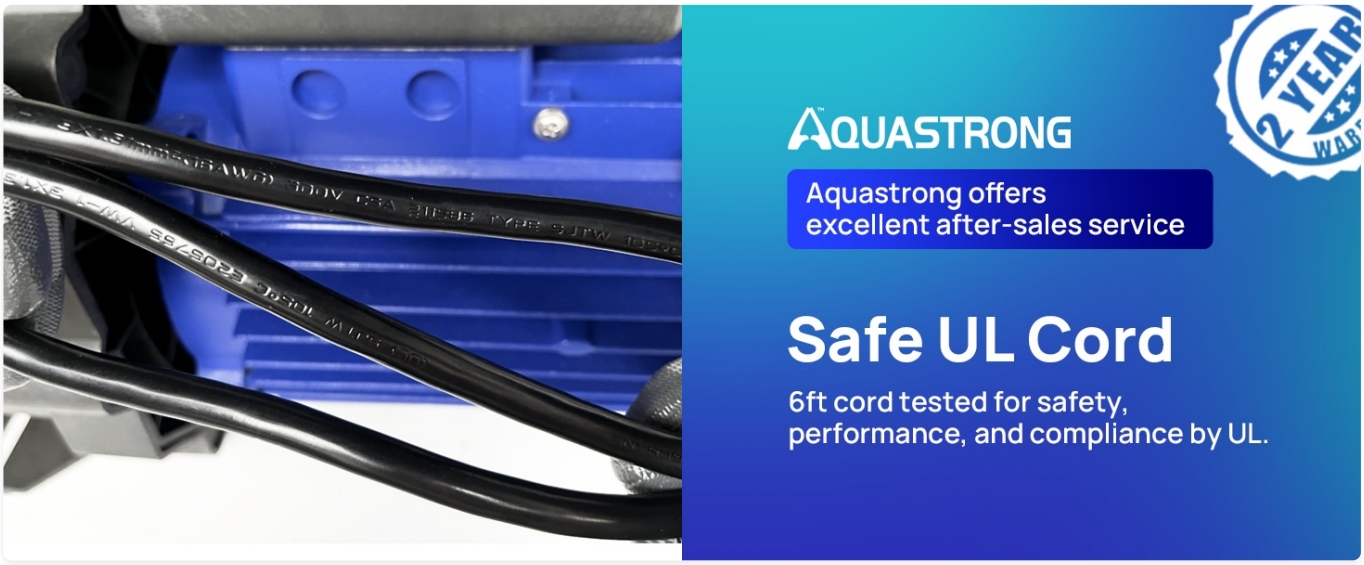

Figure 2: UL Certified Power Cord

3. Product Overview

The Aquastrong 1.5HP Single Speed Pool Pump is designed for high-flow water circulation, delivering up to 8100 GPH. It features a durable pure copper S1 motor for efficient and stable operation with ultra-low noise. The pump includes a detachable filter basket for easy debris removal.

3.1 Components

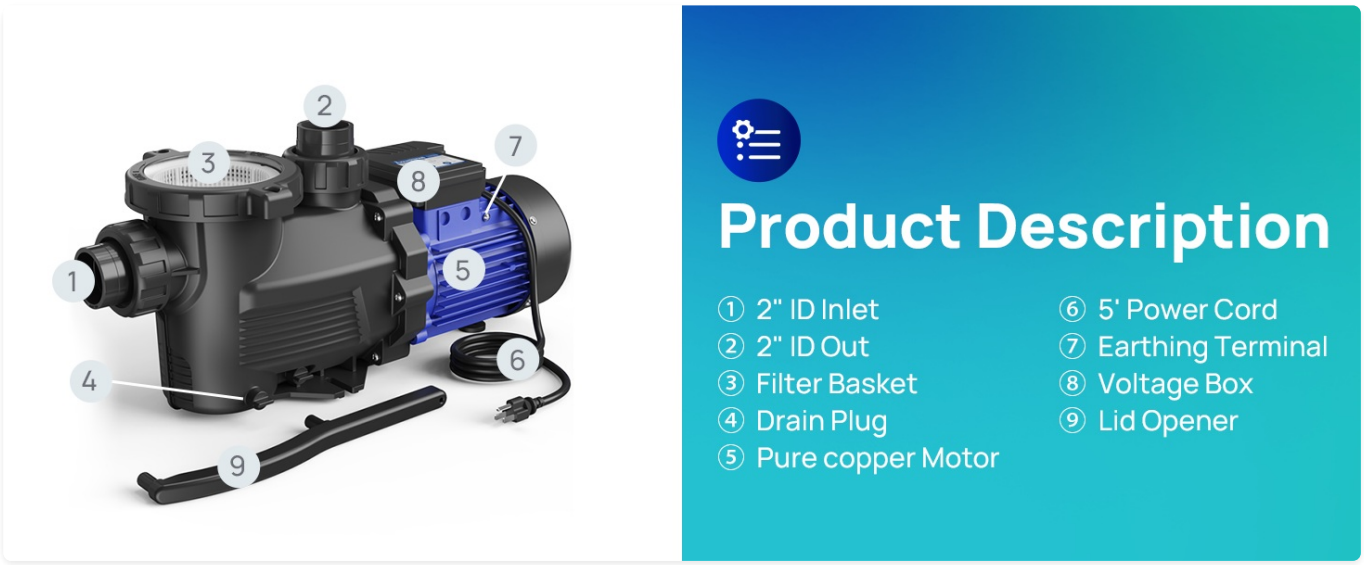

Figure 3: Labeled Components of the Pool Pump

1. 2" ID Inlet
2. 2" ID Outlet
3. Filter Basket
4. Drain Plug
5. Pure Copper Motor
6. 5' Power Cord
7. Earthing Terminal
8. Voltage Box
9. Lid Opener

3.2 Key Features

- **High-Efficiency 1.5HP Motor:** Provides a flow rate of 8100 GPH for optimal water circulation.
- **Versatile Compatibility:** Suitable for both in-ground and above-ground pools.
- **Durable Construction:** Features a pure copper S1 motor and robust plastic housing.
- **Certified Safety:** ETL-certified motor and UL-certified 6-foot power cord.
- **Low-Maintenance:** Detachable filter basket for easy cleaning.



Figure 4: Continuous Duty Motor

4. Technical Specifications

Specification	Value
Model Number	PSP150-HV
Horsepower	1.5 HP
Voltage	220 Volts
Frequency	60 Hz
Max Flow Rate	8100 GPH
Max Head	65 ft
Amperage	7.5 A
Inlet/Outlet Diameter	2" ID
Power Source	Corded Electric
Material	Plastic
Cord Length	6 feet

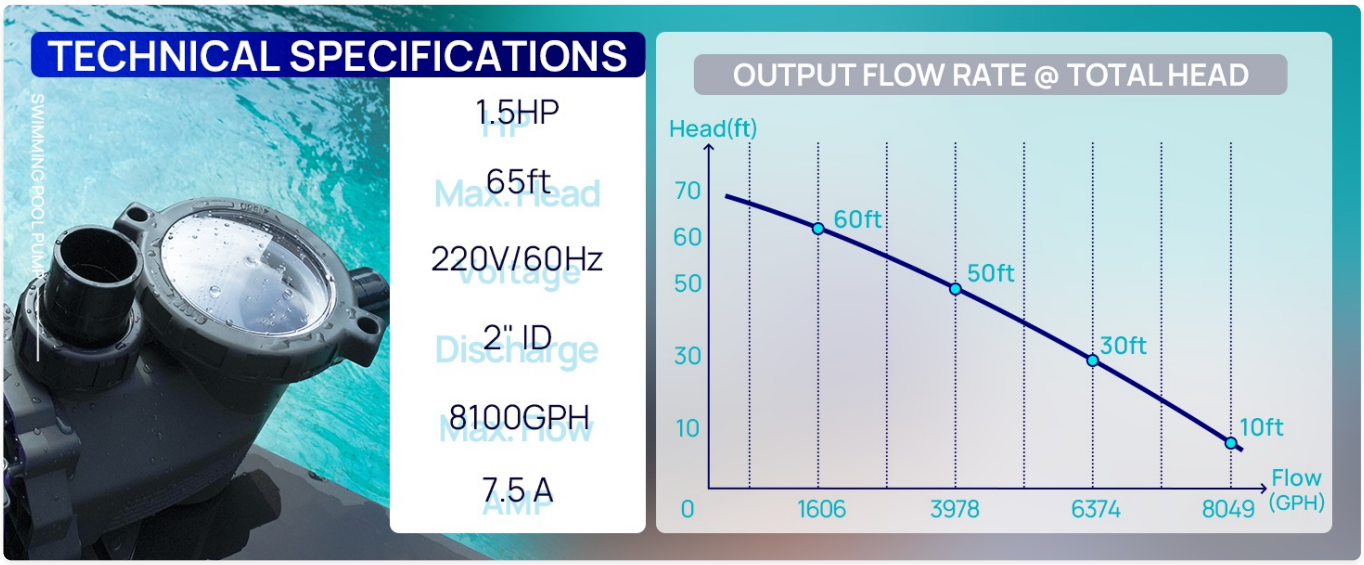

Figure 5: Technical Specifications and Flow Rate Chart

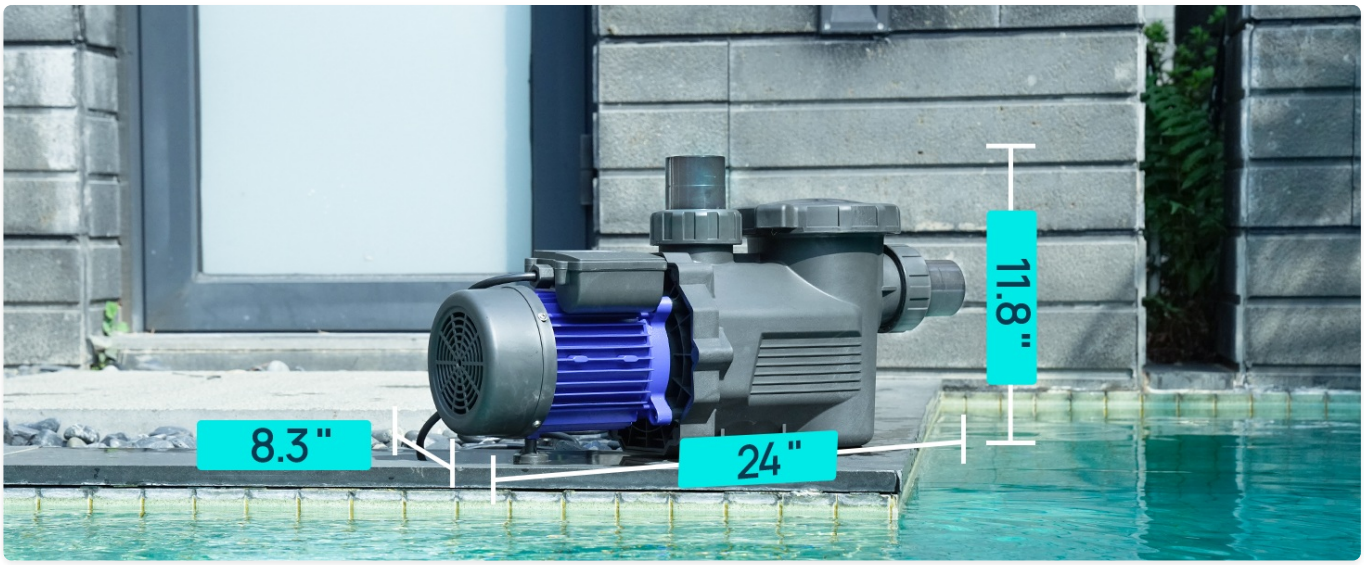

Figure 6: Product Dimensions



Figure 7: Recommended Pool Volume for 8-Hour Turnover

5. Setup and Installation

Proper installation is crucial for the pump's performance and safety. Refer to Figure 3 for component identification.

5.1 Placement

- Place the pump on a solid, level surface.
- Ensure adequate ventilation around the motor.
- Position the pump as close to the pool as possible to minimize friction loss in plumbing.

5.2 Plumbing Connections

The pump comes with two different adapters (1.5-inch and 2-inch internal diameter) for versatile connection to various pool systems. Ensure all connections are watertight to prevent air leaks, which can affect pump priming and efficiency.



Figure 8: Inlet and Outlet Connections

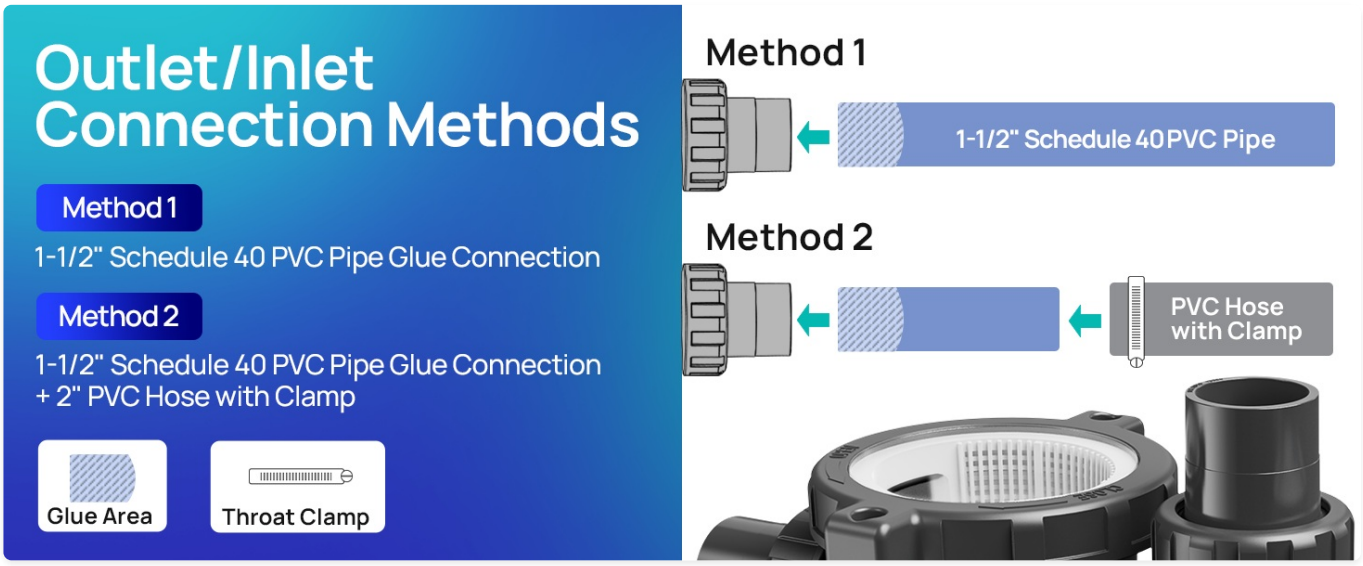

Figure 9: Outlet/Inlet Connection Methods

5.3 Electrical Connection

Connect the 220V power cord to a suitable grounded electrical outlet. Ensure the circuit is protected by a Ground Fault Circuit Interrupter (GFCI) as required by local electrical codes.

▶ **Watch video online**
AQUASTRONG 1.5HP In/Above Ground Single Speed Pool Pump

Video 1: AQUASTRONG 1.5HP In/Above Ground Single Speed Pool Pump Overview. This video provides a general overview of the pump and its features.

6. Operating Instructions

This single-speed pool pump starts automatically when plugged into a 220V outlet. It is designed for continuous operation.

6.1 Priming the Pump

Before starting the pump for the first time, or after cleaning the filter basket, ensure the pump is primed:

1. Ensure the pool water level is above the skimmer.
2. Open the filter basket lid (Component 3 in Figure 3).
3. Fill the pump housing with water until it reaches the suction pipe level.
4. Replace the lid and ensure it is securely tightened.
5. Turn on the pump. It should begin to draw water and expel air from the return lines. If it does not prime within a few minutes, turn it off, re-check connections for air leaks, and repeat the priming process.

6.2 Daily Operation

The pump should run for a sufficient duration each day to ensure proper water circulation and filtration. Refer to Figure 7 for recommended run times based on pool volume.

7. Maintenance

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

7.1 Filter Basket Cleaning

The detachable filter basket (Component 3 in Figure 3) should be checked and cleaned regularly, especially if you notice reduced water flow.

1. Turn off the pump and disconnect power.
2. Use the lid opener (Component 9 in Figure 3) to unscrew and remove the filter basket lid.
3. Remove the filter basket and empty any debris.
4. Rinse the basket thoroughly with water.
5. Inspect the O-ring on the lid for damage and ensure it is clean. Lubricate if necessary.
6. Replace the basket, secure the lid, and re-prime the pump as described in Section 6.1.

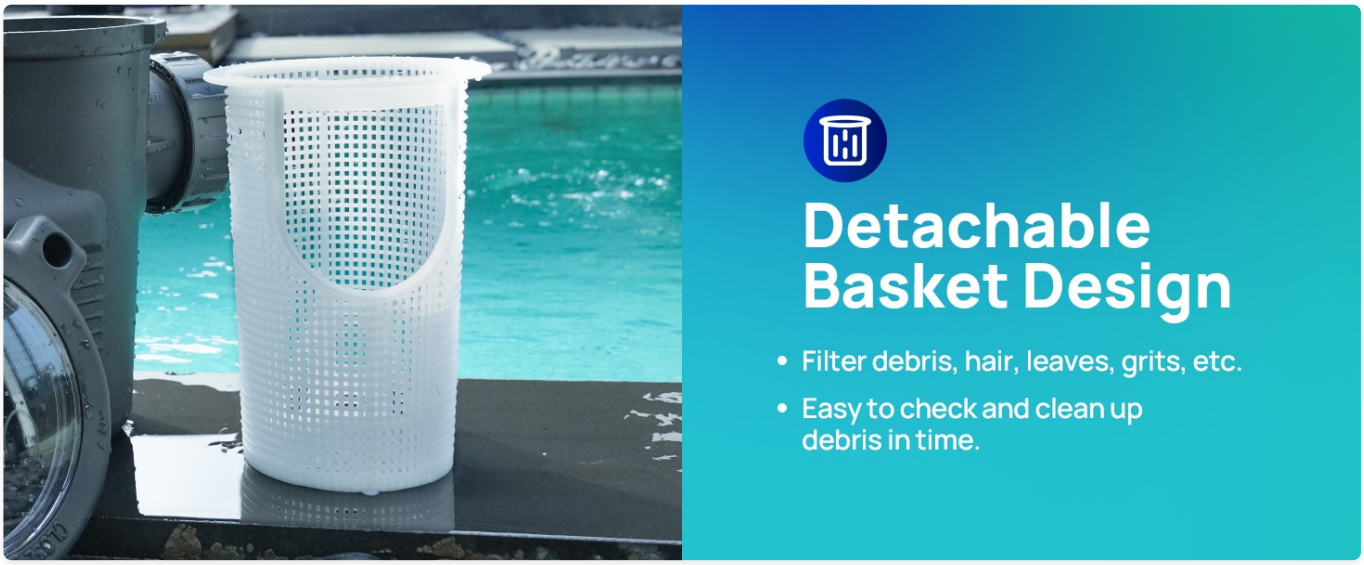

Figure 10: Detachable Filter Basket

7.2 Winterization

In areas subject to freezing temperatures, the pump must be properly winterized to prevent damage:

1. Turn off the pump and disconnect power.
2. Drain all water from the pump by removing the drain plug (Component 4 in Figure 3).
3. Store the pump in a dry, protected area during the off-season.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not start	No power supply Tripped circuit breaker/GFCI Motor overload	Check power connection Reset breaker/GFCI Allow motor to cool, check for obstructions
Pump runs but does not prime or has low flow	Air leak in suction line Filter basket clogged Low water level in pool Impeller clogged	Check all connections for leaks, tighten Clean filter basket (Section 7.1) Add water to pool Inspect and clean impeller (professional service recommended)

Problem	Possible Cause	Solution
Excessive noise or vibration	Air leak Motor bearings worn Pump not securely mounted Debris in impeller	Check for air leaks Contact customer support Secure pump to mounting surface Clean impeller
Water leaking from pump	Loose connections Damaged O-rings/seals Cracked housing	Tighten connections Inspect and replace O-rings/seals Contact customer support

9. Warranty and Support

Your Aquastrong pool pump is backed by a 2-year warranty, ensuring long-lasting support and efficiency. For warranty claims, technical assistance, or replacement parts, please contact Aquastrong customer service. Keep your purchase receipt as proof of purchase.
Additional protection plans may be available through your retailer. Please refer to the terms and conditions of any extended warranty purchased.

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