

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [AQUASTRONG](#) /

› [AQUASTRONG 1.5HP Dual Speed Pool Pump with Timer Instruction Manual \(Model PSP150ADT\)](#)

AQUASTRONG PSP150ADT

AQUASTRONG 1.5HP Dual Speed Pool Pump with Timer Instruction Manual

Model: PSP150ADT

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your AQUASTRONG 1.5HP Dual Speed Pool Pump with Timer. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before servicing the pump.

- Ensure the pump is installed by a qualified professional in accordance with local electrical and plumbing codes.
- Connect the pump to a properly grounded outlet.
- Do not operate the pump if the power cord is damaged.
- Keep children and pets away from the pump during operation.
- Ensure adequate ventilation around the pump to prevent overheating.
- Do not run the pump dry. Ensure the pump is primed with water before starting.

3. PRODUCT OVERVIEW

The AQUASTRONG 1.5HP Dual Speed Pool Pump is designed for efficient water circulation in both in-ground and above-ground pools. It features dual-speed operation and an integrated timer for automated control.

3.1 Components

Product Description



① 1.5" or 2" adapter

② 1.5" or 2" adapter

③ Filter Basket

④ Drain Plug

⑤ Pure copper Motor

⑥ 5' Power Cord

⑦ Earthing Terminal

⑧ Control Panel

⑨ Lid Opener

Image: Detailed view of the AQUASTRONG pool pump, highlighting its main components with numbered labels for identification. These include the 1.5-inch or 2-inch adapters, filter basket, drain plug, pure copper motor, 5-foot power cord, earthing terminal, control panel, and lid opener.

1. 1.5-inch or 2-inch Adapter (x2)
2. 1.5-inch or 2-inch Adapter (x2)
3. Filter Basket
4. Drain Plug
5. Pure Copper Motor
6. 5-foot Power Cord
7. Earthing Terminal
8. Control Panel
9. Lid Opener

4. SPECIFICATIONS

Feature	Detail
Model Number	PSP150ADT
Horsepower	1.5 HP
Voltage	115 Volts
Flow Rate (High Speed)	4975 GPH (82 Gallons Per Minute)
Flow Rate (Low Speed)	2400 GPH
Power Source	Corded Electric
Material	Cast Iron, Plastic
Product Dimensions	20.5L x 29W x 60.5H Centimetres (8.07 x 11.42 x 23.82 inches)
Item Weight	15.8 kg (34.83 lbs)
Waterproof Rating	IPX5
Included Components	Pool pump, 1.5-inch adapters, 2-inch adapters

4.1 Dimensions

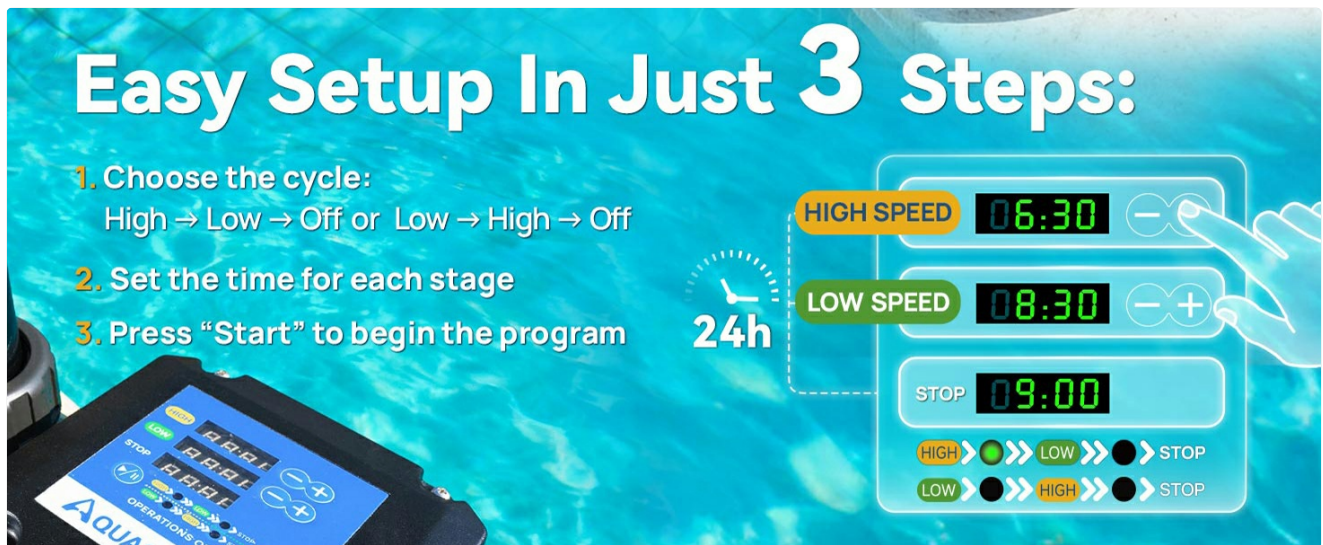


Image: A visual representation of the AQUASTRONG pool pump with key dimensions labeled, including length, width, and height.

4.2 Flow Rate Chart



Image: A graph detailing the output flow rate (GPH) versus total head (Ft) for both high-speed and low-speed operations of the pump, providing performance characteristics.

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and safety. Follow these guidelines carefully.

5.1 Site Selection

- Install the pump on a solid, level surface.
- Ensure the location is dry, well-ventilated, and protected from direct sunlight and extreme weather.
- Position the pump as close to the pool as possible to minimize friction loss in plumbing.

5.2 Plumbing Connections

The pump includes dual adapters (1.5-inch and 2-inch internal diameter) for versatile plumbing connections.



Image: Illustrations demonstrating the connection of 1.5-inch and 2-inch Schedule 40 PVC pipes to the pump's adapters, indicating the glue area for secure fitting.

1. Select the appropriate adapter size (1.5-inch or 2-inch) for your plumbing.
2. Apply PVC cement to the pipe and adapter, then firmly connect them.
3. Ensure all connections are watertight to prevent leaks.

5.3 Electrical Connection

- Connect the 6-foot UL-certified power cord to a suitable 115V grounded electrical outlet.
- Verify that the electrical supply matches the pump's voltage requirements.

5.4 Priming the Pump

Before starting the pump for the first time or after draining, it must be primed:

1. Ensure all valves are open and water can flow freely to the pump.
2. Remove the transparent lid of the filter basket.
3. Fill the filter basket with water until it overflows.

4. Replace the lid, ensuring it is securely tightened.
5. Start the pump. If water does not flow within a few minutes, turn off the pump and repeat the priming process.

5.5 Installation Overview Video

Video: This video demonstrates the easy installation process of the AQUASTRONG pool pump, including connecting the plumbing and preparing the unit for operation.

6. OPERATING INSTRUCTIONS

The pump features dual-speed operation and an integrated timer for efficient and automated pool maintenance.

6.1 Dual Speed Operation

The pump offers two speeds for varying circulation needs:

- **Low Speed (2400 GPH):** Ideal for daily filtration, energy saving, and quiet operation.
- **High Speed (4975 GPH):** Suitable for quick cleaning, backwashing, or when higher flow is required.

6.2 Setting the Integrated Timer

The built-in timer allows you to program the pump's operation for each speed. The timer operates on a 24-hour cycle, repeating the set schedule daily.



Image: The 24-hour smart flow control panel, illustrating how to set high speed, low speed, and stop times, along with operation order options (High-Low-Stop or Low-High-Stop).

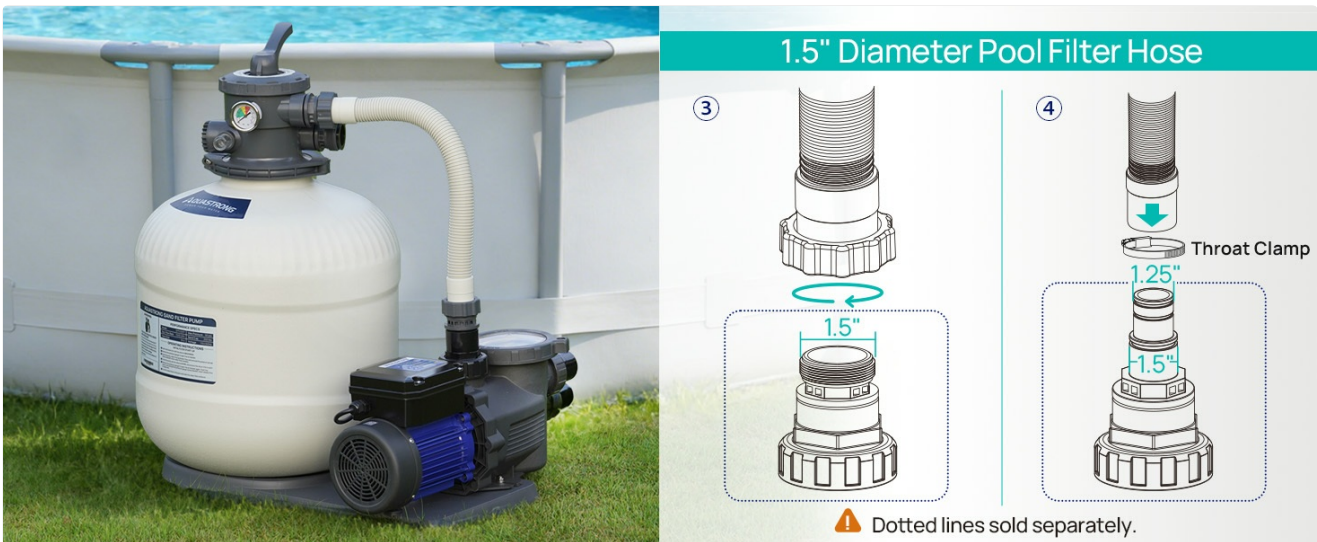


Image: A three-step guide for setting up the pump's timer: 1. Choose the cycle (High → Low → Off or Low → High → Off), 2. Set the time for each stage, and 3. Press 'Start' to begin the program.

1. **Choose the Cycle:** Use the 'Mode' button on the control panel to select the desired operation sequence (e.g., High Speed → Low Speed → Stop or Low Speed → High Speed → Stop).
2. **Set the Time for Each Stage:** Use the '+' and '-' buttons next to 'HIGH SPEED', 'LOW SPEED', and 'STOP' to adjust the duration for each stage. The display shows the start time for each segment.
3. **Activate the Program:** Press the 'Start' button to initiate the programmed schedule. The pump will then run this schedule every 24 hours.

6.3 Speed Switching and Circulation Video

Video: This video segment demonstrates how to switch between low and high speeds with a simple button press, showcasing the resulting water circulation in the pool.

7. MAINTENANCE

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

7.1 Filter Basket Cleaning

The pump is equipped with an extra-large filter basket to capture debris. Clean it regularly to maintain efficient flow.

AQUASTRONG®



Extra-Large Filter Basket For



Leaves



Hair



Branch



Others

Image: A close-up view of the extra-large filter basket being removed from the pump, demonstrating its capacity to collect leaves, hair, branches, and other debris.

1. Turn off the pump and disconnect power.
2. Use the provided lid opener to unscrew and remove the transparent lid.
3. Lift out the filter basket.
4. Empty any collected debris and rinse the basket thoroughly with water.
5. Inspect the O-ring on the lid for damage and ensure it is clean.
6. Place the clean basket back into the pump and securely tighten the lid.

7.2 Filter Basket Cleaning Video

Video: This video segment illustrates the process of removing and cleaning the extra-large filter basket, showing how to clear collected debris for continued efficient pump operation.

7.3 Winterization

If you live in an area with freezing temperatures, proper winterization is essential:

- Drain all water from the pump by removing the drain plug.
- Store the pump in a dry, frost-free location.
- Disconnect all plumbing and electrical connections.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; motor overload; faulty wiring	Check power supply; reset breaker; allow motor to cool; inspect wiring (by professional)
Low water flow	Clogged filter basket; clogged skimmer/main drain; air leak in suction line; low water level in pool	Clean filter basket; clear clogs; check for air leaks and tighten connections; add water to pool
Pump runs but no water flows (not priming)	Insufficient water in pump housing; air leak in suction line; closed valves	Refill pump housing; check and seal air leaks; open all valves
Excessive noise/vibration	Air leak in suction line; cavitation; worn bearings; loose mounting	Check for air leaks; ensure proper water flow; contact support for bearing issues; tighten mounting bolts
Timer not functioning correctly	Incorrect settings; power interruption	Review and re-set timer program; check for stable power supply

If you encounter issues not listed here or if solutions do not resolve the problem, please contact AQUASTRONG customer support.

9. WARRANTY AND SUPPORT

The AQUASTRONG 1.5HP Dual Speed Pool Pump is backed by a **2-year warranty**, ensuring reliable and cost-effective performance.



Image: A close-up of a UL-certified power cord, emphasizing the product's safety and the manufacturer's commitment to quality with

a 2-year warranty and excellent after-sales support.

For technical assistance, warranty claims, or any questions regarding your AQUASTRONG pool pump, please contact our customer support team. Refer to your purchase documentation for specific contact details or visit the official AQUASTRONG website.