

AQUASTRONG PSP300PM

AQUASTRONG Variable Speed Pool Pump PSP300PM Instruction Manual

Model: PSP300PM

1. INTRODUCTION

Thank you for choosing the AQUASTRONG Variable Speed Pool Pump. This pump is designed for both in-ground and above-ground swimming pools, offering energy-efficient operation, high flow rates, and powerful self-priming capabilities. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new pool pump.

The AQUASTRONG Variable Speed Pool Pump utilizes advanced variable speed technology to significantly reduce energy consumption by up to 80% compared to traditional single-speed pumps. It features customizable speeds from 1200 RPM (3698 GPH) to 4000 RPM (11359 GPH) and up to 4 programmable time periods within a 24-hour cycle, allowing for precise control over your pool's circulation and filtration system.

2. SAFETY INFORMATION

WARNING: Always disconnect power to the pump before performing any service or maintenance. Failure to do so can result in serious injury or death.

- Read all instructions carefully before installation and operation.
- This pump must be installed by a qualified electrician and plumber in accordance with all local and national electrical and plumbing codes.
- Ensure the pump is properly grounded to prevent electrical shock.
- Do not operate the pump if it is damaged or has exposed wiring.
- Keep children and pets away from the pump and electrical connections.
- Never run the pump dry. Ensure the pump is primed with water before starting to prevent damage.
- Maintain proper water flow to prevent overheating.

3. SETUP

3.1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Inspect the pump and all accessories for any signs of damage during transit. If any damage is found, do not proceed with installation and contact customer support.



Figure 1: The AQUASTRONG Variable Speed Pool Pump main unit.

Any Time, Any Speed



Figure 2: The pump includes 1.5-inch and 2-inch adapter interfaces for versatile compatibility.

3.2. Wiring Instruction

The pump requires a 220-240V AC power supply. It operates on single-phase Hot-Hot-Ground electrical systems. No neutral wire is required for 220V operation. The pump must be permanently connected by a circuit breaker as specified in the local electrical code.

1. Prepare the pump wire extension.
2. Peel off the black cable skin to reveal the 3 wires inside.
3. Strip each cable by 2/3 inch with a wire stripper.
4. Strip the insulation to reveal 1/5 inch copper wire.
5. Connect the wires: Black (Phase 1/L1), White (Phase 2/L2), Green (Ground/GND). The order of L1 and L2 does not matter.

Figure 3: Detailed wiring instructions for the pump.

3.3. Outlet/Inlet Connection Methods

The pump is equipped with two adapter interfaces (1.5in and 2in) for versatile compatibility with both in-ground and above-ground pool systems.

- **Method 1:** Use 1.5" or 2" schedule 40 PVC Pipe.
- **Method 2:** Use 1.5" or 2" PVC Pipe Glue Connection + 1.5" or 2" PVC Hose with Clamp.



Figure 4: Connection methods for the pump's inlet and outlet.

3.4. Placement and Installation

Place the pump on a solid, level surface. Ensure adequate ventilation around the motor. The pump should be installed as close to the pool as possible to minimize friction loss in the suction line.

Your browser does not support the video tag.

Video 1: This video, provided by Aquastrong, demonstrates the unboxing and installation process for a similar variable speed pool pump (PSP200PM model). The general installation steps are applicable to the PSP300PM model.

4. OPERATING THE PUMP

4.1. Control Panel Overview

The pump features an intuitive control panel with an LCD screen and buttons for setting speeds and schedules. The control panel allows for precise management of your pump's operation.

80%^{Up to} Energy and Cost Savings



Custom speeds optimize water flow for maximum energy savings

Figure 5: The pump's control panel with LCD display and speed/menu buttons.



Detachable Basket Design

- Filter debris, hair, leaves, grits, etc.
- Easy to check and clean up debris in time.

Figure 6: The control panel supports four pre-set speeds and four programmable time schedules.

4.2. Setting Schedules

You can optimize filtration and circulation by setting up to 4 customizable time periods within a 24-hour cycle.

1. **Power on the pump:** Turn on the power to initiate setup.
2. **Choose the speed:** Select either the high or low speed depending on your needs.
3. **Set the schedule:** Easily program your desired operating times through the control panel.
4. **Start the pump:** Press the start button to begin operation according to your settings.



Figure 7: Steps to set operating schedules on the pump.

4.3. Variable Speed Control

The smart variable speed pool pump allows you to customize speeds from 1200 RPM (3698 GPH) to 4000 RPM (11359 GPH), ensuring efficient operation for pools of all sizes.

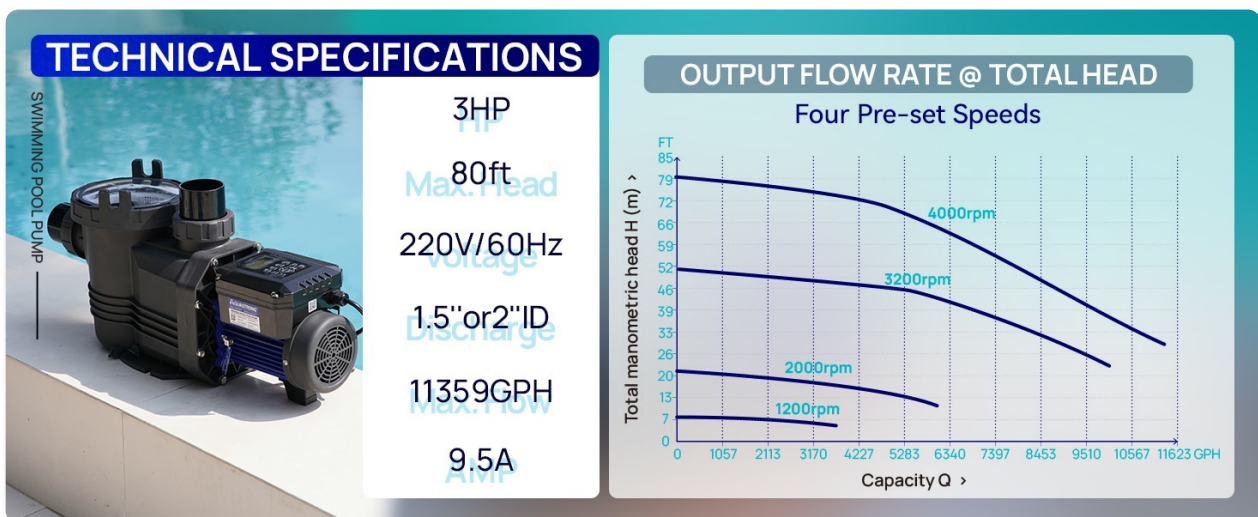


Figure 8: The 3HP pump offers a wide range of flow rates and RPM for optimal performance.

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Video 2: This official AQUASTRONG video demonstrates the variable speed capabilities and features of the pool pump.

5. MAINTENANCE

5.1. Filter Basket Cleaning

The extra-large filter basket effectively captures debris such as leaves, hair, branches, and grit. Regular cleaning of the filter basket is crucial for maintaining optimal pump performance and preventing clogs.

- Turn off the pump and disconnect power before opening the filter basket lid.
- Rotate the lid counter-clockwise to open.
- Remove the basket and empty any collected debris.
- Rinse the basket with water.

- Place the clean basket back into the pump, ensuring it is seated correctly.
- Securely close the lid by rotating it clockwise until tight.



Figure 9: The extra-large filter basket is designed for easy removal and cleaning.

5.2. Drain Plugs

The pump is equipped with drain plugs for easy water drainage, which is essential for maintenance or winterization to prevent freezing damage.

6. TROUBLESHOOTING

If the pump is not operating as expected, first check the power supply and ensure all connections are secure. Refer to the control panel for any error codes or messages displayed on the LCD screen. For complex issues or persistent problems, it is recommended to consult a qualified pool technician.

7. SPECIFICATIONS

Feature	Specification
Brand	AQUASTRONG
Model Number	PSP300PM
Color	Matta Black
Material	Cast Iron, Plastic
Product Dimensions	27"L x 13"W x 9.75"H
Power Source	AC
Maximum Flow Rate	189 Gallons Per Minute (11359 GPH)
Maximum Lifting Height	80 Feet
Voltage	220 Volts
Horsepower	3 Horsepower
Included Components	Pool pump



Figure 10: Overview of the pump's technical specifications.

8. WARRANTY AND SUPPORT

This AQUASTRONG Variable Speed Pool Pump is backed by a **two-year warranty**. AQUASTRONG is committed to providing excellent after-sales support to ensure customer satisfaction and peace of mind.

For any questions, technical assistance, or warranty claims, please refer to the contact information provided in your product packaging or visit the official AQUASTRONG website. Our support team is ready to assist you.