

AQUASTRONG PSP200PM

AQUASTRONG Variable Speed Pool Pump

Model: PSP200PM - User Manual

1. IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions before installing and operating this product. Failure to follow these instructions can result in serious injury or death.

- **Electrical Safety:** This pump operates on 220V. All electrical wiring must be performed by a qualified electrician and comply with local and national electrical codes. Ensure the pump is permanently connected to a circuit breaker.
- **Water Safety:** Always disconnect power to the pump before performing any service or maintenance. Do not run the pump dry; ensure the pump is primed with water before starting to prevent damage.
- **Installation:** Install the pump in a well-ventilated area, protected from excessive moisture and direct sunlight. Ensure proper drainage around the pump.
- **Children:** Keep children away from the pump and pool equipment area.

2. PRODUCT OVERVIEW

The AQUASTRONG Variable Speed Pool Pump (Model PSP200PM) is designed for efficient and powerful water circulation in both in-ground and above-ground pools. Its variable speed technology offers significant energy savings and customizable performance.



Figure 2.1: AQUASTRONG Variable Speed Pool Pump (Model PSP200PM)

Key Features:

- **Energy-Saving Design:** Reduces energy consumption by up to 80% compared to traditional pumps.
- **Powerful Performance:** Customizable speeds from 1200 RPM (3566 GPH) to 4000 RPM (10566 GPH).
- **Efficient Timing:** Up to 4 customizable time periods within a 24-hour cycle.
- **Versatile Compatibility:** Two adapter interfaces (1.5in and 2in) for various pool systems.
- **Quiet Operation:** Engineered for low noise levels.
- **Detachable Filter Basket:** Extra-large basket for easy debris collection and cleaning.



Figure 2.2: Product Diagram with Key Components

- 1. 1.5" or 2" ID Inlet
- 2. 1.5" or 2" ID Outlet
- 3. Filter Basket
- 4. Drain Plug
- 5. Pure Copper Motor
- 6. 5' Power Cord
- 7. Earthing Terminal
- 8. Control Panel

3. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	PSP200PM
Horsepower (HP)	2 HP
Maximum Flow Rate	10566 GPH (176 gpm)
Maximum Head	75 feet
Voltage	220V
Amperage (AMP)	7.2A
Discharge/Inlet	1.5" or 2" PVC
Product Dimensions (L x W x H)	30" x 14" x 12"
Material	Cast Iron, Plastic



Permanent Magnet Motor

- Enhanced efficiency and reduced energy consumption.
- Stable operation and ultra-low noise.



Figure 3.1: Flow Rate vs. Total Manometric Head at Different RPMs



Detachable Basket Design

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

Figure 3.2: Product Dimensions

4. INSTALLATION

4.1 Pre-Installation Checks

- Ensure the installation site is level, well-drained, and provides adequate ventilation.
- Verify that the power supply matches the pump's voltage requirements (220V).
- Gather all necessary plumbing tools and materials (PVC pipes, glue, primer, clamps, etc.).

4.2 Plumbing Connections

The pump is equipped with two adapter interfaces (1.5in and 2in) for versatile compatibility. Choose the appropriate size for your pool system.



Figure 4.1: Outlet/Inlet Connection Methods

- **Method 1 (PVC Pipe):** Use 1.5" or 2" schedule 40 PVC pipe. Apply PVC primer and glue to the pipe and adapter for a secure, watertight seal.
- **Method 2 (PVC Hose with Clamp):** For flexible connections, use 1.5" or 2" PVC hose with a clamp. Ensure the hose is securely fastened to prevent leaks.

4.3 Electrical Wiring

All electrical work must be performed by a licensed electrician. The pump operates on single-phase Hot-Hot-Ground electrical systems and must be permanently connected by a circuit breaker.

The image shows the control panel of an AQUASTRONG 2.0 Variable Speed Pool Pump. The panel is black with a digital display screen on the left and several buttons on the right. A label on the front of the pump reads "AQUASTRONG Model: PSP2005PM Serial No. 431020117 VARIABLE SPEED POOL PUMP 2.0 Voltage: 208-240V 1/2-2HP/1500W".

Set the Schedules in Just 4 Steps

01

Power on the pump:
Turn on the power to initiate setup.

02

Choose the speed:
Select either the high or low speed depending on your needs.

03

Set the schedule:
Easily program your desired operating times through the control panel.

04

Start the pump:
Press the start button to begin operation according to your settings.

Figure 4.2: Wiring Instruction Diagram

1. Prepare the pump wire extension by peeling off the black cable skin to reveal the three wires inside.
2. Strip each cable by approximately 2/3 inch with a wire stripper.
3. Strip the insulation to reveal 1/5 inch of copper wire.
4. Connect the wires: Black (Hot 110V), White (Hot 110V), Green (Ground Wire).

Important Tip: Always ensure the power is OFF at the circuit breaker before performing any wiring. Consult a professional electrician if you are unsure about any steps.

4.4 Installation Video Overview

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Video 4.1: Official overview of the AQUASTRONG 2HP Variable Speed Pool Pump, highlighting its features and benefits, including aspects relevant to installation.

5. OPERATION

5.1 Initial Startup

1. Ensure all plumbing connections are secure and watertight.
2. Fill the pump's strainer basket with water to prime the pump. Securely close the lid.
3. Turn on the power at the circuit breaker.
4. The pump's control panel will illuminate.

5.2 Setting Speeds and Schedules

The AQUASTRONG Variable Speed Pool Pump allows for precise control over its operation through the integrated control panel.



Figure 5.1: Programmable and Automated Control Panel

1. **Power On:** Turn on the power to initiate setup.
2. **Choose Speed:** Select from four pre-set speeds (1200-4000 RPM) using the speed buttons (Speed 1, Speed 2, Speed 3, Speed 4) on the control panel.
3. **Set Schedule:** Use the 'MENU' button and navigation arrows to program up to four customizable time periods within a 24-hour cycle. This optimizes filtration and circulation while saving energy.
4. **Start Pump:** Press the 'ENTER' or 'PLAY' button to begin operation according to your settings.

5.3 Control Panel Interaction Video

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Video 5.2: Demonstration of setting speeds and interacting with the control panel.

6. MAINTENANCE

6.1 Filter Basket Cleaning

Regular cleaning of the filter basket is crucial for optimal pump performance and longevity.



Product Description

- | | |
|-----------------------|---------------------|
| ① 1.5" or 2" ID Inlet | ⑤ Pure copper Motor |
| ② 1.5" or 2" ID Out | ⑥ 5' Power Cord |
| ③ Filter Basket | ⑦ Earthing Terminal |
| ④ Drain Plug | ⑧ Control Panel |

Figure 6.1: Detachable Basket Design for Easy Cleaning

1. Turn off the pump and disconnect power at the circuit breaker.

2. Rotate the strainer basket lid counter-clockwise to remove it.
3. Lift out the basket and empty any collected debris (leaves, hair, grit, etc.).
4. Rinse the basket thoroughly with water.
5. Inspect the O-ring on the lid for damage or wear. Replace if necessary.
6. Place the clean basket back into the pump and secure the lid by rotating it clockwise until tight.

6.2 Winterization

For regions with freezing temperatures, proper winterization is essential to prevent pump damage.

- Drain all water from the pump by removing the drain plugs.
- Store the pump in a dry, protected area if possible.
- If the pump cannot be removed, ensure all water is drained and consider using appropriate winterization chemicals.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your pool pump. Always disconnect power before inspecting or servicing the pump.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; motor overload; faulty wiring	Check power supply; reset circuit breaker; allow motor to cool; inspect wiring (call electrician if needed)
Low water flow	Clogged strainer basket; clogged impeller; air leak in suction line; low water level in pool	Clean strainer basket; clear impeller; check for leaks in plumbing; ensure adequate pool water level
Pump loses prime	Air leak in suction line; low water level; loose connections	Inspect and seal suction line for leaks; ensure proper pool water level; tighten all connections
Excessive noise/vibration	Air in system; worn bearings; pump not securely mounted; debris in impeller	Bleed air from system; contact support for worn bearings; secure pump mounting; clean impeller
Water leaks	Loose connections; damaged O-rings/seals; cracked housing	Tighten connections; replace O-rings/seals; contact support for cracked housing

8. WARRANTY AND CUSTOMER SUPPORT

The AQUASTRONG Variable Speed Pool Pump (Model PSP200PM) is backed by a **two-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your product, please contact AQUASTRONG customer support:

- **Website:** [Visit the AQUASTRONG Store on Amazon](#)
- **Email:** Refer to your product packaging or the official AQUASTRONG website for direct contact information.
- **Phone:** Refer to your product packaging or the official AQUASTRONG website for direct contact information.

Please have your model number (PSP200PM) and proof of purchase ready when contacting customer support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question