

Pureline PL1116

Pureline 1.5 H.P Variable Speed Pool Pump Motor

Model: PL1116

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pureline 1.5 H.P Variable Speed Pool Pump Motor, Model PL1116. This variable speed motor is designed to replace existing pool pump motors, offering enhanced energy efficiency and operational flexibility for your swimming pool or spa system.

SAFETY INFORMATION

WARNING: Electrical shock hazard. This product must be installed and serviced by a qualified pool professional in accordance with all applicable local and national electrical codes. Failure to do so can result in serious injury or death.

- Always disconnect power to the pump motor at the circuit breaker before attempting any installation, service, or maintenance.
- Ensure proper grounding and bonding as required by electrical codes.
- Do not operate the pump motor if it is damaged or if any electrical components are exposed to water.
- Keep children away from the pump motor and all pool equipment.

PRODUCT OVERVIEW

The Pureline 1.5 H.P Variable Speed Pool Pump Motor (PL1116) is a high-efficiency replacement motor designed for various pool pump models. It features a digital controller for easy operation and offers a full variable speed range from 750 to 3450 RPMs. This design allows for significant energy savings compared to traditional single-speed motors.

Key Features:

- 1.5 Horsepower, 230V operation.
- Full Variable Speed (750-3450 RPMs) for optimized performance and energy efficiency.
- Integrated Digital Controller for user-friendly speed and schedule management.
- Compatible with popular pump models including Hayward Super Pump, Hayward Super II, Hayward Max-

Flo, and Jacuzzi Magnum.

- Round Flange 56J frame for direct replacement.



Image: The Pureline 1.5 HP Variable Speed Pool Pump Motor, showing its main body and control box.



Image: Side view of the Pureline motor, highlighting the output shaft for pump impeller attachment.

SETUP AND INSTALLATION

Installation of the Pureline variable speed motor should be performed by a certified pool technician or a qualified electrician. Incorrect installation can lead to equipment damage, electrical hazards, and void the product warranty.

Pre-Installation Checks:

- Verify that the existing pump housing is compatible with a 56J round flange motor.
- Ensure the electrical supply meets the motor's requirements (230V).
- Inspect the pump housing for any damage or wear. Replace necessary seals and gaskets during motor replacement to prevent leaks.

Installation Steps (Summary):

1. **Disconnect Power:** Turn off all power to the pool pump at the main circuit breaker.
2. **Drain Pump:** Drain water from the pump housing.
3. **Remove Old Motor:** Disconnect wiring and unbolt the old motor from the pump housing. Carefully remove the impeller and seal assembly.
4. **Install New Seal:** Install a new shaft seal kit according to the pump manufacturer's instructions.
5. **Mount New Motor:** Bolt the Pureline PL1116 motor to the pump housing. Ensure proper alignment.
6. **Wire Motor:** Connect electrical wiring to the motor's terminal board. Refer to the wiring diagram located on the motor's label for correct connections. Ensure all connections are secure and properly insulated.

7. **Prime Pump:** Follow pump manufacturer's instructions to prime the pump before starting.
8. **Restore Power:** Once installation is complete and verified, restore power.

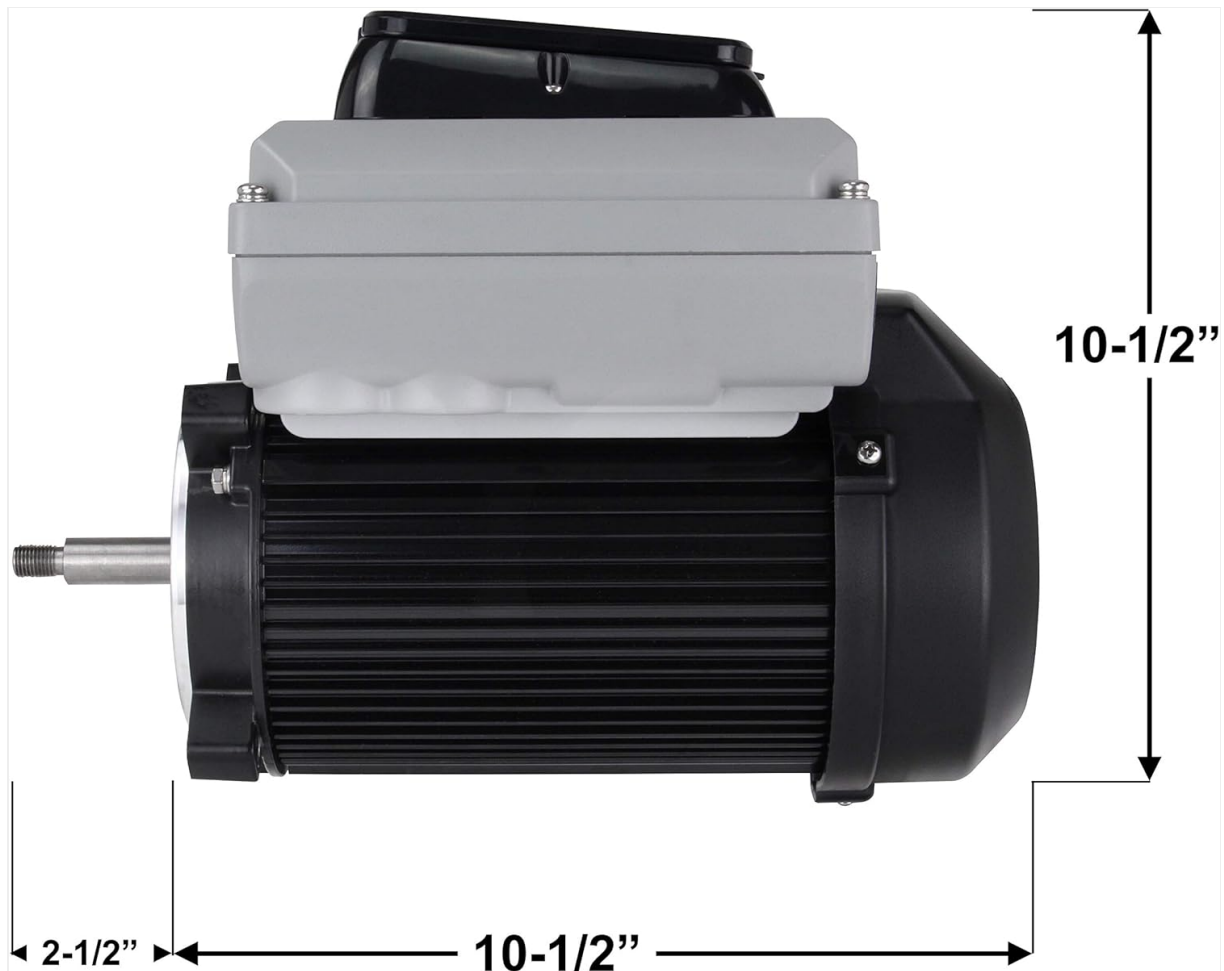


Image: Dimensional drawing of the Pureline 1.5 HP Variable Speed Pool Pump Motor, showing key measurements for installation planning.

OPERATING INSTRUCTIONS

The Pureline PL1116 motor features an intuitive digital controller for managing pump speeds and schedules. Operating at lower speeds for longer durations can significantly reduce energy consumption and operational costs.

Digital Controller Overview:



Image: Close-up of the Pureline digital controller, showing the display and control buttons.

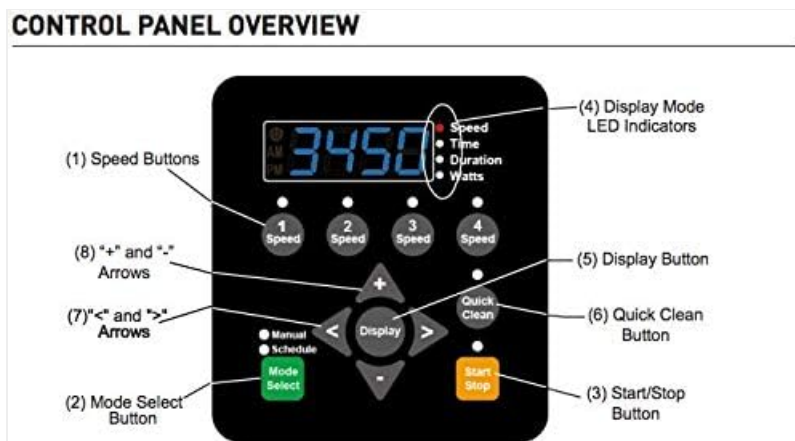


Image: Diagram illustrating the functions of each button and indicator on the digital control panel.

Basic Operation:

- **Start/Stop Button:** Press to turn the pump motor ON or OFF.
- **Speed Buttons (1-4):** These buttons allow you to select pre-set speeds. You can program these speeds to your desired RPMs.

- **"+" and "-" Arrows:** Use these to adjust RPMs when setting custom speeds or to navigate menu options.
- **Display Button:** Cycles through different display modes (Speed, Time, Duration, Watts).
- **Quick Clean Button:** Activates a temporary high-speed cycle for quick cleaning tasks.
- **Mode Select Button:** Toggles between Manual operation and Scheduled operation.

For detailed programming instructions for custom speeds and schedules, please refer to the full programming guide that accompanies the product or consult the manufacturer's website.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Pureline pool pump motor. Always disconnect power before performing any maintenance.

- **Keep Clean:** Periodically clean the exterior of the motor to prevent dust and debris buildup, which can impede cooling.
- **Inspect Wiring:** Annually inspect all electrical connections and wiring for signs of wear, corrosion, or damage.
- **Check for Leaks:** Regularly check the pump housing and plumbing for any water leaks, which can damage the motor over time.
- **Ventilation:** Ensure the motor has adequate ventilation to prevent overheating. Do not obstruct the motor's fan or vents.

TROUBLESHOOTING

If you experience issues with your Pureline variable speed pool pump motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not start	No power, tripped breaker, faulty wiring.	Check circuit breaker. Verify electrical connections. Consult an electrician.
Motor makes squealing, loud, or humming noise	Worn bearings, motor nearing end of life, debris in pump.	Disconnect power and inspect pump impeller for obstructions. If noise persists, professional service or motor replacement may be required.
Pump not moving water	Pump not primed, clogged skimmer/strainer, air leak.	Ensure pump is properly primed. Clean skimmer and pump basket. Check for air leaks in plumbing.

If troubleshooting steps do not resolve the issue, contact customer support or a qualified service technician.

SPECIFICATIONS

Attribute	Detail
Brand	Pureline
Model Number	PL1116
Horsepower	1.5 HP
Voltage	230 Volts
Amperage	0.1 - 7.0 Amps
Frame	56J (Round Flange)
Speed Range	750 - 3450 RPM (Variable)
Material	Cast Iron
Power Source	Corded Electric
UPC	794604371177

WARRANTY INFORMATION

The Pureline 1.5 H.P Variable Speed Pool Pump Motor (PL1116) comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from improper installation, misuse, neglect, freezing, or unauthorized repairs.

For full warranty terms and conditions, please refer to the documentation included with your product or contact Pureline customer support.

SUPPORT

For technical assistance, replacement parts, or warranty inquiries, please contact Pureline customer support. You can typically find contact information on the product packaging, the manufacturer's official website, or through your authorized dealer.

When contacting support, please have your product model number (PL1116) and date of purchase readily available.