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› Pentair /

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Pentair 123327

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Model: 123327

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Pentair 123327 1/2 HP 230V 4-inch Stainless Steel Submersible Well Pump. Please read these instructions thoroughly before installation or operation to ensure proper function and to prevent injury or damage.

The Pentair 123327 is designed for reliable water delivery from wells up to 150 feet deep, featuring a durable stainless steel construction and efficient performance.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Always disconnect power before servicing the pump or motor.
- Installation should be performed by a qualified professional in accordance with all local and national electrical and plumbing codes.
- Ensure the electrical supply matches the pump's voltage requirements (230V).
- Do not operate the pump dry. Ensure the pump is fully submerged before operation.
- Use appropriate lifting equipment when handling the pump due to its weight.

3. PACKAGE CONTENTS

Your Pentair 123327 pump package should contain the following:

- Pentair 123327 1/2 HP 230V 4-inch Submersible Well Pump
- Instruction Manual (this document)

*Note: A 1/2 HP control box is required for operation and is **not included** with this pump. Refer to Pentair documentation for compatible control boxes, such as Master Plumber control box TV #123-329.*

4. PRODUCT OVERVIEW

The Pentair 123327 is a robust 4-inch submersible well pump designed for residential and light commercial water supply applications. Key features include:

- **Power:** 1/2 HP, 230V
- **Construction:** Stainless steel pump and motor housing for corrosion resistance.
- **Wire Configuration:** 3-wire design.
- **Flow Rate:** Up to 10 Gallons Per Minute (GPM).
- **Well Depth:** Suitable for wells up to 150 feet deep.
- **Discharge Connection:** 1-1/4 inch.
- **Impellers & Diffusers:** Precision molded for efficient water movement.
- **Check Valve:** Built-in for preventing backflow.
- **Sand Resistance:** Patented floating stack design for reduced sand locking.



Image 1: Pentair 123327 1/2 HP 230V 4-inch Submersible Well Pump. This image shows the main body of the stainless steel submersible pump, highlighting its compact cylindrical design and the discharge connection at the top.

5. SETUP AND INSTALLATION

Professional installation is highly recommended for submersible well pumps to ensure safety and proper operation.

1. **Prepare the Well:** Ensure the well casing is clean and free of debris. Measure the well depth and static water level to determine the optimal pump setting depth.
2. **Connect Piping:** Attach the appropriate discharge piping (1-1/4 inch) to the pump's discharge connection. Use thread sealant for a watertight seal.
3. **Attach Safety Rope/Cable:** Secure a non-corrosive safety rope or cable to the pump for easy retrieval and to prevent the pump from falling into the well.
4. **Electrical Connections:** Connect the pump's 3-wire cable to the required 1/2 HP 230V control box (sold separately). Ensure all electrical connections are waterproof and meet local codes. Proper grounding is critical.
5. **Lower the Pump:** Carefully lower the pump into the well using the discharge pipe and safety rope/cable. Ensure the pump is fully submerged and positioned above the well bottom to avoid drawing sand or sediment.
6. **Connect to Power Supply:** Once the pump is securely in place and all connections are made, connect the control box to the main power supply.
7. **Test Operation:** Before backfilling or completing the wellhead, test the pump's operation to ensure it primes and delivers water correctly. Check for leaks.

6. OPERATING INSTRUCTIONS

Once properly installed and connected to a control box and power supply, the Pentair 123327 pump operates automatically based on demand, typically controlled by a pressure switch in a pressure tank system.

- **Initial Start-up:** After installation, allow the pump to run for a short period to purge air from the system. Monitor water flow and pressure.
- **Automatic Operation:** The pump will turn on when system pressure drops below a set point (e.g., when a faucet is opened) and turn off when the pressure reaches the upper set point.
- **Monitoring:** Periodically check water pressure and flow. Any significant changes may indicate an issue with the pump or well system.
- **Dry Run Protection:** While the pump has a patented design for sand resistance, prolonged dry running can damage the pump. Ensure the well has sufficient water.

7. MAINTENANCE

The Pentair 123327 submersible well pump is designed for minimal maintenance. However, regular checks of the overall well system are recommended.

- **Annual System Check:** Have a qualified well technician inspect your entire well system annually, including the pump, pressure tank, and electrical components.
- **Water Quality:** Monitor your water quality. Changes in taste, odor, or clarity may indicate issues with the well or pump.
- **Pressure Tank:** Check the air pressure in your pressure tank periodically (with the pump off and system drained) to ensure efficient operation.
- **Winterization (if applicable):** In regions prone to freezing, ensure all exposed piping and components are properly insulated or drained to prevent freeze damage. The submersible pump itself is protected by being below the frost line.
- **No User Serviceable Parts:** The pump motor and sealed components are not user-serviceable. Do not attempt to disassemble the pump.

8. TROUBLESHOOTING

Before attempting any troubleshooting, **always disconnect power to the pump**. If you are unsure about any step, contact a qualified professional.

Problem	Possible Cause	Solution
Pump does not run	No power; tripped circuit breaker; faulty control box; motor failure.	Check power supply and circuit breaker. Inspect control box. Consult a professional for motor issues.
Low water pressure/flow	Low well water level; clogged pump intake; worn impellers; pressure switch malfunction; pipe leak.	Check well water level. Inspect for clogs (requires pump removal). Check pressure switch settings. Consult a professional.
Pump runs continuously	System leak; faulty pressure switch; pump not building enough pressure.	Check for leaks in the plumbing. Inspect/replace pressure switch. Consult a professional for pump performance issues.
Water contains sand	Pump set too deep; well screen damaged; excessive sand in well.	Adjust pump depth. Inspect well screen. Consider well rehabilitation or sand filter.

9. SPECIFICATIONS

Feature	Specification
Model Number	123327
Horsepower (HP)	1/2 HP
Voltage	230V
Pump Diameter	4 inches
Material	Stainless Steel (Pump & Motor Housing)
Wire Configuration	3 Wire
Maximum Flow Rate	10 Gallons Per Minute (GPM)
Maximum Well Depth	Up to 150 feet
Discharge Connection	1-1/4 inch
Impellers & Diffusers	Precision Molded
Check Valve	Built-in
Item Weight	34 Pounds
UPC	052088002803

10. WARRANTY AND SUPPORT

For specific warranty details, please refer to the warranty card included with your product or visit the official Pentair website. Keep your purchase receipt as proof of purchase.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Pentair Customer Support:

- **Website:** www.pentair.com
- **Phone:** Refer to the Pentair website for regional contact numbers.

When contacting support, please have your pump's model number (123327) and serial number (if applicable) ready.