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**Pentair 123335**

# Pentair 123335 Shallow Well Jet Pump Instruction Manual

Model: 123335 | 1/2 hp, 115V

## 1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pentair 123335 Shallow Well Jet Pump. Please read this manual thoroughly before attempting to install or operate the pump. Retain this manual for future reference.



Image 1.1: The Pentair 123335 Shallow Well Jet Pump. This image displays the pump from a slightly elevated side angle, showcasing its dark, corrosion-resistant fiberglass reinforced thermoplastic body and the attached electric motor. The threaded inlet and outlet ports are visible on the pump housing.

## 2. Safety Information

**WARNING: Failure to follow these instructions can result in serious injury or death.**

- Always disconnect power before servicing the pump.
- Ensure all electrical connections comply with local codes and are performed by a qualified electrician. The pump operates on 115 Volts.
- Do not operate the pump in an explosive atmosphere or with flammable liquids.
- Protect the pump from freezing temperatures.
- Wear appropriate personal protective equipment during installation and maintenance.
- This pump is designed for water only. Do not use for other liquids.

## 3. Product Overview and Specifications

The Pentair 123335 is a robust 1/2 hp shallow well jet pump designed for reliable water supply from wells up to 25 feet deep. It features a corrosion-resistant fiberglass reinforced thermoplastic pump body and a 115V capacitor-start motor.

### Key Features:

- 1/2 horsepower motor for efficient water transfer.
- Corrosion-resistant fiberglass reinforced thermoplastic construction.
- Integrated 30-50 PSI pressure switch for automatic operation.
- Designed for shallow well applications with a maximum suction lift of 25 feet.
- Open drip-proof motor design.

### Technical Specifications:

| Specification | Value |
|---|---|
| Model Number | 123335 |
| Brand | Pentair |
| Motor Horsepower | 1/2 hp |
| Voltage | 115 Volts |
| Amperage | 9.9 amp AC |
| Pressure Switch Setting | 30-50 PSI |
| Maximum Suction Lift | 25 feet |
| Maximum Case Pressure | 100 PSI |
| Shut-off Pressure | 78 PSI |
| Inlet Connection | 1-1/4 inch NPT |
| Outlet Connection | 1 inch NPT |
| Pump Material | Fiberglass Reinforced Thermoplastic |
| Motor Type | CAPACITOR start |

| Specification | Value |
|---|---|
| Style | Above Ground |
| Product Dimensions | 1 x 11 x 9.78 inches (approximate) |
| Item Weight | 2.4 ounces (approximate) |

## 4. Installation and Setup

Proper installation is crucial for the pump's performance and longevity. Consult a qualified professional if you are unsure about any steps.

### 4.1 Location:

- Install the pump in a clean, dry, well-ventilated area, protected from freezing temperatures and direct sunlight.
- Ensure the pump is installed above ground, as per its design.
- Mount the pump on a solid, level foundation to minimize vibration and noise.

### 4.2 Plumbing Connections:

- Connect the well suction line to the 1-1/4 inch NPT inlet of the pump. Use appropriate pipe dope or Teflon tape for a watertight seal.
- Connect the discharge line to the 1 inch NPT outlet of the pump.
- Install a check valve in the suction line to prevent water from flowing back into the well when the pump is off.
- Ensure all plumbing is adequately supported to prevent strain on the pump.

### 4.3 Electrical Connections:

- Verify that the power supply matches the pump's voltage (115V) and amperage (9.9 amp AC) requirements.
- All wiring must comply with national and local electrical codes.
- Connect the pump to a dedicated, properly grounded circuit with appropriate overcurrent protection.
- If the pump is installed outdoors or in a damp location, use a Ground Fault Circuit Interrupter (GFCI).

### 4.4 Priming the Pump:

- Before initial startup, the pump must be primed. Remove the priming plug (usually located on top of the pump housing).
- Fill the pump casing completely with clean water until it overflows.
- Replace the priming plug securely.
- Open a faucet or valve on the discharge side to allow air to escape during startup.

## 5. Operation

Once installed and primed, your Pentair jet pump is ready for operation.

### 5.1 Initial Startup:

- Ensure all connections are secure and the pump is primed.

- Turn on the electrical power to the pump.
- The pump should start and begin to build pressure. Water should flow from the open faucet.
- Once a steady stream of water is achieved and all air is expelled, close the faucet. The pump will continue to run until the system pressure reaches the cut-off setting (50 PSI) and then shut off automatically.

### 5.2 Normal Operation:

The pump's pressure switch will automatically turn the pump on when the system pressure drops to 30 PSI and turn it off when it reaches 50 PSI. This maintains a consistent water supply.

## 6. Maintenance

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

### 6.1 Routine Checks:

- Periodically check for leaks around plumbing connections.
- Listen for unusual noises or vibrations, which may indicate a problem.
- Ensure the pump's ventilation openings are clear of debris.

### 6.2 Winterization:

If the pump is installed in an area subject to freezing temperatures and will not be used during winter, it must be drained to prevent damage.

- Disconnect power to the pump.
- Open all drain plugs on the pump and plumbing lines.
- Allow all water to drain completely.
- Store the pump in a warm, dry place if possible, or ensure all components are thoroughly dry before reassembling drain plugs.

## 7. Troubleshooting

This section provides solutions to common issues you might encounter.

| Problem | Possible Cause | Solution |
|---|---|---|
| Pump does not start | No power; tripped breaker; faulty motor; pressure switch issue | Check power supply and breaker; consult electrician for motor/switch issues. |
| Pump runs but no water | Pump not primed; air leak in suction line; low well water level; clogged intake | Re-prime pump; check suction line for leaks; verify well water level; clear intake. |
| Low water pressure | Partially clogged lines; worn impeller; pressure tank issue; pressure switch setting | Inspect and clear lines; consult technician for impeller/pressure tank; check pressure switch settings. |
| Pump cycles too frequently | Leaking plumbing; faulty pressure tank; pressure switch differential too narrow | Check for leaks; inspect pressure tank; adjust or replace pressure switch. |

## 8. Warranty and Support

Pentair products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or visit the official Pentair website. For technical support or replacement parts, contact Pentair customer service or an authorized service center.
You can find more information about Pentair products and support at thePentair Store on Amazon.

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