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› Flotec FP3212-12 3-Wire Submersible Well Pump User Manual

Flotec FP3212-12

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Model: FP3212-12

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Flotec FP3212-12 3-Wire Submersible Well Pump. Please read all instructions carefully before beginning installation or operation to ensure proper function and to prevent injury or damage. This 1/2 HP, 230-Volt pump is designed for use in 4-inch wells or larger, capable of pumping water from depths up to 150 feet for general home and farm use.

SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury:

- **Electrical Safety:** Ensure all electrical connections are made by a qualified electrician and comply with local codes. Disconnect power before servicing.
- **Grounding:** The pump and control box must be properly grounded to prevent electric shock.
- **Water Temperature:** Do not use this pump with water temperatures exceeding 120°F (49°C).
- **Well Casing:** Ensure the well casing is structurally sound and free of debris before installation.
- **Lifting:** Use appropriate lifting equipment when handling the pump due to its weight.

PACKAGE CONTENTS

Verify that all components are present before proceeding with installation:

- Flotec FP3212-12 3-Wire Submersible Well Pump
- Control Box (houses electrical components for easy service)
- User Manual (this document)

SPECIFICATIONS

Feature	Specification
Model Number	FP3212-12
Horsepower (HP)	1/2 HP
Voltage	230 Volts
Pump Type	3-Wire Submersible
Minimum Well Diameter	4 inches
Maximum Pumping Depth	150 feet
Maximum Flow Rate	13.2 Gallons Per Minute
Item Weight	25 Pounds
Material	Plastic (housing)

INSTALLATION AND SETUP

Installation of a submersible well pump requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified professional to ensure safety and proper operation.

- Pre-Installation Check:** Inspect the pump and control box for any shipping damage. Ensure the well is clean and free of obstructions.
- Wiring:** Connect the 3-wire pump to the control box according to the wiring diagram provided with the control box. Ensure all connections are watertight and properly insulated.
- Pipe Connection:** Attach the discharge pipe to the pump outlet. Use appropriate thread sealant.
- Lowering the Pump:** Securely attach a safety rope or cable to the pump. Carefully lower the pump into the well, ensuring it hangs freely and does not touch the bottom or sides of the well casing.
- Electrical Connection:** Connect the control box to the main power supply, ensuring proper grounding and circuit protection.
- System Priming:** Once installed, the pump will self-prime as it is submerged. Ensure the system is filled with water before initial startup.



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Image of the Flotec FP3212-12 3-Wire Submersible Well Pump, showing its compact design suitable for well installation.

OPERATION

Once properly installed and connected, the Flotec FP3212-12 pump operates automatically based on the pressure switch settings in your water system. When water pressure drops below a set point, the pump will activate to replenish the system. When the pressure reaches the upper set point, the pump will shut off.

- **Initial Startup:** After installation, open a faucet to allow air to escape the system. The pump will start and build pressure. Close the faucet once water flows steadily.
- **Monitoring:** Periodically check the pressure gauge to ensure the pump is operating within expected pressure ranges.
- **Dry Run Protection:** This pump does not include integrated dry run protection. Consider installing an external low-water cutoff switch to prevent damage if the well water level drops too low.

MAINTENANCE

The Flotec FP3212-12 submersible pump is designed for minimal maintenance. However, regular checks of your overall water system are recommended.

- **Annual System Check:** Have your well system inspected annually by a qualified professional. This includes checking the pump's electrical connections, pressure tank, and overall system performance.
- **Water Quality:** Monitor your water quality. Sediment or sand in the water can indicate issues with the well or pump.
- **Control Box:** Ensure the control box is kept clean and dry. Do not open the control box unless power is disconnected.

TROUBLESHOOTING

Before attempting any repairs, always disconnect power to the pump and control box. For complex issues, contact a qualified pump technician.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; faulty control box; motor issue	Check power supply and circuit breaker. Inspect control box for visible damage. Consult a professional.
Low water pressure	Low well water level; clogged pump intake; faulty pressure switch; pipe leak	Check well level. Inspect for clogs. Adjust or replace pressure switch. Check for leaks in plumbing.
Pump runs continuously	Pressure switch malfunction; constant water demand; pipe leak	Inspect or replace pressure switch. Check for open faucets or leaks.
No water delivery	Pump not running; air in system; well dry; clogged intake	Refer to 'Pump does not start'. Bleed air from system. Check well level. Clear intake.

WARRANTY AND SUPPORT

The Flotec FP3212-12 3-Wire Submersible Well Pump comes with a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the documentation included with your purchase or contact Flotec customer support directly.

For technical assistance, replacement parts, or warranty claims, please visit the official Flotec website or contact their customer service department. Always provide your model number (FP3212-12) and purchase date when seeking support.

You can find more information and support resources on the [Flotec Brand Store](#).