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Flotec FP4012-10

Flotec FP4012-10 Shallow Well Jet Pump Instruction Manual

Model: FP4012-10 | Brand: Flotec

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Flotec FP4012-10 1/2 HP Shallow Well Jet Pump. Please read these instructions thoroughly before beginning any work to ensure proper function and longevity of the pump.



Figure 1: Flotec FP4012-10 Shallow Well Jet Pump

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including [Specific chemical if known, otherwise general warning], 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. Ensure all electrical connections comply with local codes and regulations. Do not operate the pump dry. Protect the pump from freezing temperatures.

3. PRODUCT OVERVIEW

The Flotec FP4012-10 is a 1/2 HP shallow well jet pump designed for wells with pumping levels of 25 feet or less. It features a fiberglass-reinforced thermoplastic pump housing for superior corrosion and sandy water resistance. The pump is equipped with a heavy-duty dual-voltage motor and a built-in pressure switch.

Key Features:

- Built-in shallow well pump jet, ideal for wells with pumping levels of 25 feet or less.
- Offers superior performance at capacities up to 10 GPM at 40 PSI.
- Fiberglass-reinforced thermoplastic construction provides excellent corrosion and sandy water resistance.
- Dust-proof cover protects electrical components from dust and insects.
- Includes stainless steel shaft, heavy-duty ball bearings, balanced rotor, mechanical shaft seal, and insulated motor windings.
- Self-priming after the pump housing is initially filled with water.

4. SPECIFICATIONS

| Specification | Value |
|--------------------------------|-----------------------------------|
| Brand | Flotec |
| Model Number | FP4012-10 |
| Material | Thermoplastic |
| Style | Above Ground |
| Product Dimensions (L x W x H) | 22.81" x 11.2" x 10.48" |
| Power Source | Corded Electric |
| Item Weight | 23.1 Pounds |
| Maximum Flow Rate | 10 Gallons Per Minute |
| Maximum Lifting Height | 25 Feet |
| Voltage | 100 Volts (1/2 HP preset at 115V) |
| Horsepower | 1/2 HP |
| Inlet | 1-1/4 inch NPT |
| Outlet | 1 inch NPT |
| Case Pressure | 77 psi |

| | |
|-----------------------|-----------------|
| Max Water Temperature | 140 deg F |
| Certifications | CSAus Certified |



Figure 2: Product Dimensions

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and safety. Refer to the detailed Quick Start Guide and full instruction manual included with your pump for specific diagrams and step-by-step procedures.

1. **Mounting:** Securely mount the pump on a stable, level surface.
2. **Plumbing Connections:** Connect the 1-1/4 inch NPT inlet to your well pipe and the 1 inch NPT outlet to your water system. Ensure all connections are watertight.
3. **Priming:** The pump is self-priming after the pump housing is initially filled with water. Follow the priming instructions in the included manual carefully.
4. **Electrical Connections:** The pressure on/off switch is pre-wired for 115V operation and preset for a 30-50 cut-off pressure. Ensure your electrical supply matches the pump's requirements and all wiring is done by a qualified professional in accordance with local electrical codes.

6. OPERATION

Once properly installed and primed, the pump will operate automatically based on the pressure switch settings. When water pressure drops below the cut-in setting (e.g., 30 PSI), the pump will activate. When pressure reaches the cut-off setting (e.g., 50 PSI), the pump will deactivate.

Starting the Pump:

- Ensure the pump is properly primed.
- Connect the pump to the appropriate power supply.
- The pump will start automatically when pressure drops.

Monitor the pressure gauge to confirm correct operation. The pump is designed for continuous, reliable performance.

7. MAINTENANCE

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

- **Winterization:** If the pump is in an area subject to freezing temperatures, it must be drained and removed for storage during winter months to prevent damage.
- **Cleaning:** Periodically inspect the pump for debris or blockages, especially around the inlet.
- **Corrosion Resistance:** The thermoplastic housing provides excellent resistance to corrosion and sandy water, but regular inspection for wear and tear is recommended.
- **Electrical Inspection:** Annually inspect electrical connections and wiring for any signs of damage or wear.

8. TROUBLESHOOTING

If your pump is not operating as expected, consider the following common issues:

- **Pump not starting:** Check power supply, ensure the pressure switch is functioning, and verify the pump is properly primed.
- **Low pressure:** Inspect for leaks in the plumbing, check the well water level, and ensure the pump is adequately primed.
- **Pump runs continuously:** This may indicate a leak in the system or a faulty pressure switch.

For more detailed troubleshooting steps, refer to the full instruction manual or contact customer support.

9. WARRANTY AND SUPPORT

The Flotec FP4012-10 Shallow Well Jet Pump typically comes with a 1-year warranty. Please refer to your purchase documentation for specific warranty terms and conditions.

Customer Support:

If you require additional assistance, have questions regarding installation, operation, or maintenance, please visit the official Flotec website or contact their customer service. Contact information can usually be found in the "Need Help?" flyer included with your product or on the manufacturer's website.

For further information, you may visit the [Flotec Store on Amazon](#).

