

Flotec FPZS50T

Flotec FPZS50T 1/2 hp Submersible Sump Pump User Manual

Model: FPZS50T

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Flotec FPZS50T 1/2 hp Submersible Sump Pump. Please read all instructions carefully before installation and use. Retain this manual for future reference.

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.

- Always disconnect power before servicing the pump.
- Do not operate the pump in areas where flammable liquids or explosive gases are present.
- Ensure the electrical supply matches the pump's voltage requirements (115 VAC, 60 Hz).
- Do not use the power cord to carry or lift the pump.
- Keep all electrical connections dry and off the ground.
- This pump is designed for clear water only. Do not use for sewage or other abrasive liquids.

PRODUCT OVERVIEW

The Flotec FPZS50T is a 1/2 horsepower submersible sump pump designed for residential water removal applications. It features a heavy-duty motor with automatic thermal overload protection and a tethered float switch for automatic or manual operation.



An image showing the Flotec FPZS50T 1/2 hp Submersible Sump Pump. It features a silver motor housing, a black base with an inlet, a black discharge outlet, and a tethered float switch for automatic operation.

SPECIFICATIONS

Feature	Detail
Model	FPZS50T
Horsepower	1/2 hp
Voltage	115 Volts
Frequency	60 Hz
Maximum Flow Rate	4200 GPH (70 Gallons Per Minute)
Maximum Lifting Height (Head)	22 Feet
Discharge Outlet	1-1/2 inch NPT

Feature	Detail
Minimum Sump Basin Diameter	14 inches (for automatic tethered switch operation)
Power Cord Length	8 feet
Construction Material	Thermoplastic
Item Weight	9.5 Pounds
Dimensions (L x W x H)	8.18"L x 7.96"W x 12.56"H
Certifications	CSA, cUS Certified

SETUP AND INSTALLATION

- Sump Basin Preparation:** Ensure the sump basin is clean and free of debris. The basin should be at least 14 inches in diameter for proper operation of the tethered float switch.
- Positioning the Pump:** Place the pump on a solid, level surface at the bottom of the sump basin. The pump's base is designed to keep the intake raised off the pit floor, reducing debris ingestion.
- Discharge Piping:** Connect a 1-1/2 inch NPT discharge pipe to the pump's outlet. Use rigid PVC pipe for best results. Install a check valve in the discharge line to prevent water from flowing back into the sump basin when the pump shuts off.
- Float Switch Adjustment:** The tethered float switch controls the automatic operation of the pump. Adjust the tether length to ensure the pump turns on at the desired water level and turns off before the pump runs dry. Ensure the float can move freely without obstruction.
- Electrical Connection:** Plug the pump's power cord into a properly grounded 115 VAC, 60 Hz electrical outlet. The piggy-back style switch allows for automatic or manual operation. For automatic operation, plug the pump into the back of the float switch plug, then plug the float switch plug into the wall outlet. For manual operation, plug the pump directly into the wall outlet (the pump will run continuously).
- Testing:** After installation, fill the sump basin with water to test the pump's operation. Verify that the pump turns on and off correctly and that water is discharged properly.

OPERATING INSTRUCTIONS

The Flotec FPZS50T pump can operate in two modes: automatic or manual.

- Automatic Operation:** When the pump is connected via its piggy-back float switch, it will automatically activate when the water level rises, lifting the float switch. The pump will continue to run until the water level drops and the float switch returns to its off position.
- Manual Operation:** To operate the pump manually, bypass the float switch by plugging the pump's power cord directly into a grounded electrical outlet. The pump will run continuously until unplugged. Use manual operation for specific tasks like emptying a pool or utility pumping, but do not leave unattended to prevent dry running.

CAUTION: Do not allow the pump to run dry for extended periods, as this can cause damage to the motor and seals.

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your sump pump.

- **Monthly Inspection:** Periodically check the sump basin for debris, dirt, or sediment that could obstruct the pump's intake or float switch. Clean the basin as needed.
- **Float Switch Check:** Ensure the float switch moves freely and is not obstructed by wires, pipes, or basin walls. Manually lift the float to verify the pump activates.
- **Discharge Line:** Inspect the discharge pipe for any leaks or blockages. Ensure the check valve is functioning correctly.
- **Pump Housing:** Clean the exterior of the pump if excessive sediment or mineral deposits accumulate.
- **Winterization (if applicable):** If the pump is installed in an area subject to freezing temperatures and will not be used, disconnect power, remove the pump, clean it, and store it in a warm, dry location. Drain all water from the discharge piping.

WARNING: Always disconnect power to the pump before performing any maintenance or inspection.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not run	No power; tripped circuit breaker; faulty float switch; motor overload.	Check power supply and circuit breaker. Ensure float switch is free and operating. Allow motor to cool if thermal overload tripped.
Pump runs but does not pump water	Clogged intake or discharge; air lock; low water level; faulty impeller.	Clear any blockages. Ensure water level is sufficient. Disconnect power and inspect impeller for damage.
Pump runs continuously	Stuck float switch; check valve failure; continuous manual operation.	Check float switch for obstructions. Inspect check valve. Ensure pump is not plugged in for manual operation if automatic is desired.
Pump cycles too frequently	Improper float switch adjustment; undersized sump basin; backflow from discharge line.	Adjust float switch to allow for more water accumulation. Ensure check valve is installed and working.

WARRANTY AND SUPPORT

Flotec products are manufactured to high-quality standards. For specific warranty details and customer support, please refer to the warranty card included with your purchase or visit the official Flotec website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical assistance or replacement parts, contact Flotec customer service. Always provide the model number (FPZS50T) when seeking support.