FLOWPAC FX701

FLOWPAC DC 12V 1500 GPH Utility Submersible Sump Pump with Switch Instruction Manual

Model: FX701

1. Introduction

This manual provides essential information for the safe and efficient operation of your FLOWPAC DC 12V 1500 GPH Utility Submersible Sump Pump. Please read these instructions carefully before installation and use, and retain them for future reference. This pump is designed for various water transfer applications, operating with a 12-volt DC power source.

2. Safety Information

- **Electrical Safety:** Always ensure the 12V DC power source is disconnected before performing any installation, maintenance, or troubleshooting. Use appropriate battery connections and avoid short circuits.
- **Water Temperature:** Do not use this pump for liquids exceeding 120°F (49°C) or below 32°F (0°C).
- **Dry Running: NEVER operate the pump without water.** Running the pump dry will cause severe damage to the motor due to lack of cooling and lubrication, and will void the warranty.
- **Placement:** Ensure the pump is placed on a stable, level surface. Avoid placing it directly in mud, sand, or silt, as these materials can clog the intake and damage the pump.
- **Discharge Hose:** Use a discharge hose of adequate diameter (3/4" or larger) to minimize friction loss and ensure efficient operation.
- **Children and Pets:** Keep children and pets away from the pump during operation.

3. Package Contents

Verify that all items are present and undamaged upon opening the package:

- 1 x FLOWPAC DC 12V Submersible Sump Pump (Model FX701)
- 1 x 20-foot Battery Cord with On/Off Switch
- 2 x Battery Alligator Clips (Red for positive, Black for negative)
- 1 x 3/4" Garden Hose Adapter

4. Specifications

Image: The FLOWPAC FX701 pump shown alongside a table detailing its technical specifications.

Feature	Detail
Model	FX701
Voltage	12V DC
Rated Current	13.5 A
Max. Flow Rate	1500 GPH (Gallons Per Hour)
Max. Head (Lifting Height)	25 Feet
Rotate Speed	6000 r/m
Solids Handling	1/8 Inch
Discharge	1-1/4" NPT, 3/4" Garden hose adapter included

Feature	Detail
Power Source	DC (Battery not included)
Material	Thermoplastic
Item Weight	7.48 Pounds
Wattage	170 watts

Image: A detailed diagram of the pump, highlighting components such as the discharge, handle, power clip, intake screen, and switch, along with key dimensions.

5. Setup

5.1. Pump Placement

Install the pump on a hard, level surface within the water. To prevent clogging and damage, avoid placing the pump directly in mud, sand, silt, or on rocky surfaces. If necessary, use bricks or patio blocks to elevate the pump off the bottom.

5.2. Hose Connection

Connect a discharge hose to the pump's outlet. You can use the provided 3/4" garden hose adapter or another suitable hose fitting (sold separately). For optimal performance and to minimize friction loss, ensure the hose diameter is 3/4" or larger.

5.3. Battery Connection

Connect the battery alligator clips to a 12-volt DC battery (battery not included). Ensure correct polarity:

- Connect the **red** alligator clip to the **positive (+)** terminal on the battery.
- Connect the **black** alligator clip to the **negative (-)** terminal on the battery.

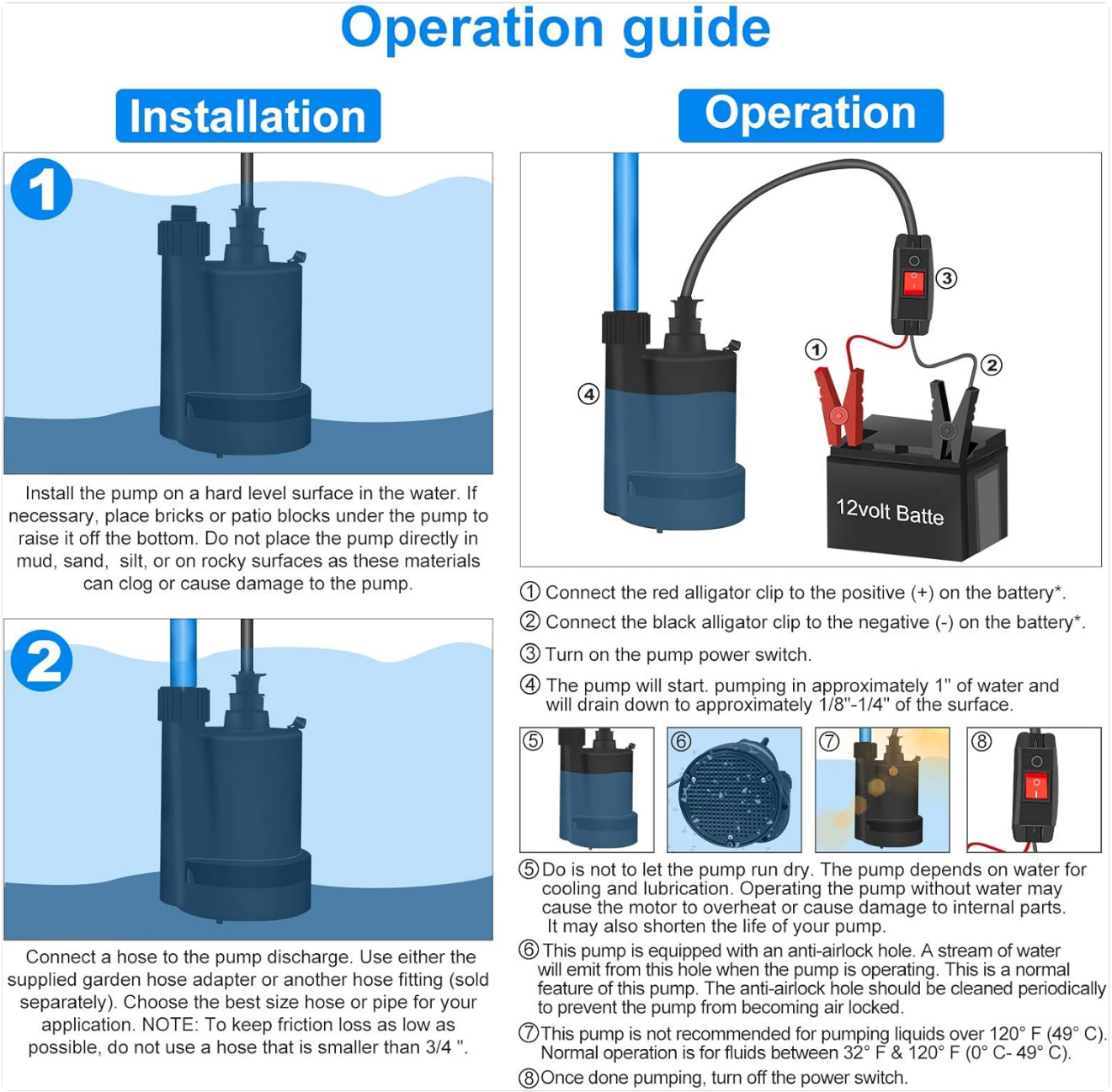

Image: A visual guide illustrating the steps for pump installation in water and connecting the battery clips to a 12V battery.

6. Operation

1. Once the pump is correctly placed and connected to the battery and discharge hose, turn on the pump power switch located on the cord.
2. The pump will begin operating, effectively removing water down to approximately 1/8" to 1/4" from the surface.

3. **Important:** Do not allow the pump to run dry. The pump relies on water for cooling and internal lubrication. Continuous dry operation will lead to motor overheating and permanent damage.
4. This pump features an anti-airlock hole. A small stream of water will be visible from this hole during operation. This is normal and indicates proper function. Periodically inspect and clean this hole to prevent airlock issues.
5. When pumping is complete, turn off the power switch.

Image: The FLOWPAC submersible pump actively pumping water from a container, showing the discharge stream.

6.1. Typical Applications

This versatile pump is suitable for a wide range of applications, including:

- Basement dewatering
- Draining pools and hot tubs
- Removing water from flat roofs and window wells
- General utility pumping in outdoor settings
- Use in camping/RV scenarios
- Pond and farm applications

Image: A graphic illustrating diverse uses for the pump, such as in homes, outdoors, basements, pools, flat roofs, and for camping/RV.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your pump.

- **Clean Intake Screen:** Periodically inspect and clean the intake screen to remove any debris that may restrict water flow.
- **Anti-Airlock Hole:** Ensure the anti-airlock hole is clear of obstructions. A clogged hole can lead to airlock and prevent the pump from priming.
- **General Inspection:** Before each use, check the pump body, power cord, and connections for any signs of damage, wear, or corrosion. Do not use a damaged pump.
- **Storage:** When not in use, clean the pump thoroughly with fresh water, dry it, and store it in a cool, dry place away from direct sunlight and freezing temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start or runs intermittently.	◦ No power or low battery voltage. ◦ Loose or corroded battery connections. ◦ Power switch is off. ◦ Internal motor issue.	◦ Check battery charge and voltage (must be 12V DC). ◦ Clean and tighten battery alligator clips. ◦ Ensure the power switch is in the "ON" position. ◦ If issues persist, contact customer support.
Pump runs but no water is discharged or flow is low.	◦ Intake screen is clogged. ◦ Discharge hose is kinked, blocked, or too small. ◦ Anti-airlock hole is clogged. ◦ Pump is running dry (not fully submerged). ◦ Excessive discharge head (pumping too high).	◦ Disconnect power and clean the intake screen. ◦ Inspect and clear the discharge hose; ensure it's 3/4" or larger. ◦ Clean the anti-airlock hole. ◦ Ensure the pump is fully submerged in water. ◦ Reduce the vertical lift if possible.
Pump makes unusual noise.	◦ Debris in the pump impeller. ◦ Pump running dry. ◦ Internal component wear.	◦ Disconnect power and inspect for debris. ◦ Ensure pump is fully submerged. ◦ If noise persists, contact customer support.

9. Warranty and Support

The FLOWPAC DC 12V 1500 GPH Utility Submersible Sump Pump comes with a one-year warranty from the date of purchase. This warranty covers manufacturing defects under normal use conditions.
Please Note: Defects or damages resulting from improper use, misuse, neglect, unauthorized modifications, or operation without water (dry running) are not covered under this warranty.
For technical assistance, warranty claims, or any questions regarding your product, please contact FLOWPAC customer support. Refer to your purchase documentation for specific contact details or visit the official FLOWPAC website.

Related Documents - FX701

[JVC KS-FX701/KS-FX601/KS-F501 Cassette Receiver User Manual and Installation Guide]

This document provides comprehensive instructions for the JVC KS-FX701, KS-FX601, and KS-F501 Cassette Receivers, covering basic operations, radio and tape functions, sound adjustments, remote control, CD changer integration, external component connection, maintenance, troubleshooting, and detailed installation procedures.