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> FLOWPAC FX701-Orange 12V DC Submersible Utility Sump Pump Instruction Manual

## FLOWPAC FX701

# FLOWPAC FX701-Orange 12V DC Submersible Utility Sump Pump Instruction Manual

Model: FX701

## INTRODUCTION

This manual provides essential instructions for the safe and efficient operation and maintenance of your FLOWPAC FX701-Orange 12V DC Submersible Utility Sump Pump. Please read this manual thoroughly before installation and use, and retain it for future reference.

## IMPORTANT SAFETY INFORMATION

- Always disconnect the power source (battery) before performing any maintenance or cleaning on the pump.
- Do not operate the pump with no water. Dry running can cause severe damage to the motor and internal components.
- Ensure proper electrical connections. Connect the red alligator clip to the positive (+) terminal and the black alligator clip to the negative (-) terminal of a 12-volt battery.
- This pump is designed for clean or dirty water. It is not recommended for pumping flammable liquids, corrosive chemicals, or liquids above 120°F (49°C) or below 32°F (0°C).
- Keep children and unauthorized personnel away from the pump during operation.
- Do not lift the pump by its power cord. Use the portable handle.
- Ensure the pump is placed on a hard, level surface in the water to prevent clogging from mud, sand, silt, or rocky materials.

## PACKAGE CONTENTS

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Upon opening the package, please verify that all components are present and undamaged:

- FLOWPAC FX701-Orange 12V DC Submersible Utility Sump Pump
- 20-foot battery cord with on/off switch
- Battery alligator clips
- 3/4" Garden hose adapter
- User Manual (this document)

## PRODUCT SPECIFICATIONS

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Specification	Value
Model	FX701-Orange
Voltage	12V DC
Max. Flow Rate	1500 GPH (Gallons Per Hour) / 25 GPM (Gallons Per Minute)
Max. Head (Lifting Height)	25 Feet
Rotate Speed	6000 r/m
Solids Handling	Up to 1/8 Inch
Discharge Port	1-1/4" NPT (3/4" Garden hose adapter included)
Power Source	12-volt DC battery (not included)
Cord Length	20 feet (with on/off switch and alligator clips)
Material	Tough Thermoplastic
Product Dimensions (L x W x H)	6.74" x 6.74" x 10.84"
Item Weight	7.5 Pounds

# Portable Submersible Utility Water pump

701 DC 12V 1500 GPH Utility Pump With Switch

brand	
model	701
Volts	12V DC
Max. Flow	1500GPH
Max. Head	25 feet
Rotate speed	6000 r/m
Solids Handling	1/8 Inch
Discharge	1-1/4" NPT 3/4" Garden hose adapter included
Weight	6.38 lbs
Box size	6.7*6.7*11 inch
Warranty	1 year

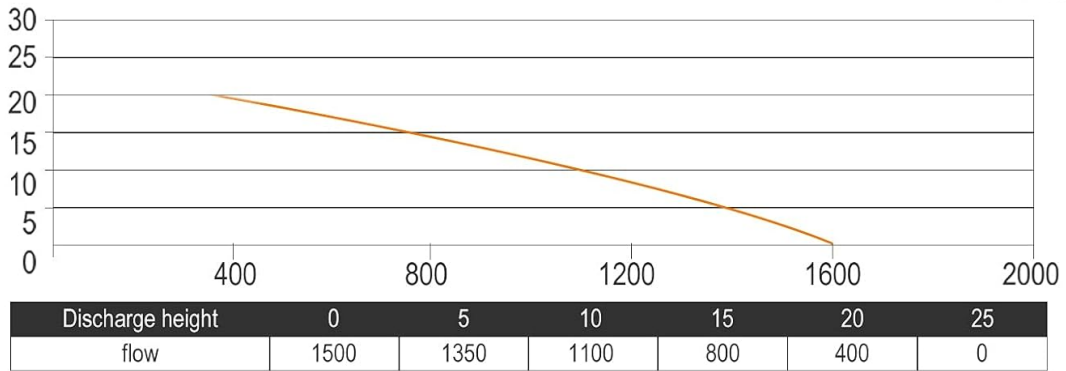


Image: Front view of the FLOWPAC FX701-Orange submersible pump, showing its orange body, black discharge port, and attached power cord with alligator clips. A table next to it lists key specifications like voltage, flow rate, and head.



Image: Side view of the FLOWPAC FX701-Orange submersible pump, highlighting its thermoplastic pump body, portable handle, intake screen, convenient switch, 20' battery cables, 1-1/4" NPT discharge, 3/4" GHT adapter, and power clips. Dimensions of 9.5" height and 5.7" width are indicated.

## SETUP GUIDE

### 1. Pump Placement

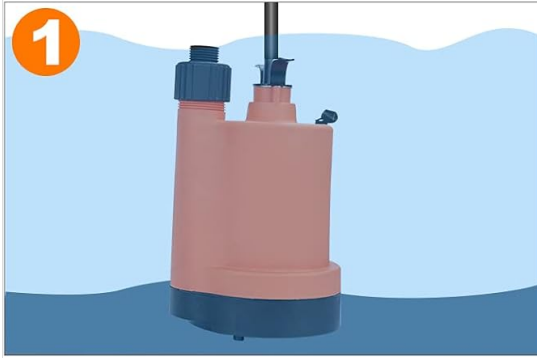
Install the pump on a hard, level surface in the water. If necessary, place bricks or patio blocks under the pump to raise it off the bottom. **Do not place the pump directly in mud, sand, silt, or on rocky surfaces** as these materials can clog or cause damage to the pump.

### 2. Hose Connection

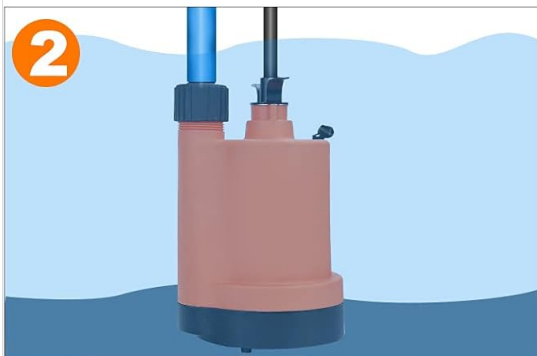
Connect a hose to the pump discharge. Use either the supplied garden hose adapter or another hose fitting (sold separately). Choose the best size hose or pipe for your application. **NOTE:** To keep friction loss as low as possible, do not use a hose that is smaller than 3/4" inner diameter.

# Operation guide

## Installation

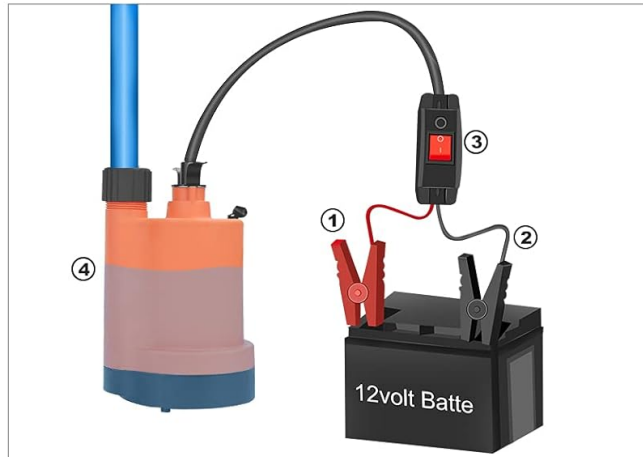


Install the pump on a hard level surface in the water. If necessary, place bricks or patio blocks under the pump to raise it off the bottom. Do not place the pump directly in mud, sand, silt, or on rocky surfaces as these materials can clog or cause damage to the pump.

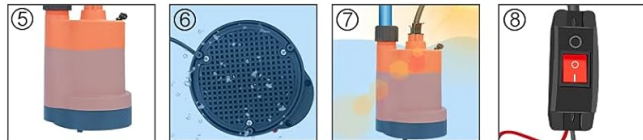


Connect a hose to the pump discharge. Use either the supplied garden hose adapter or another hose fitting (sold separately). Choose the best size hose or pipe for your application. NOTE: To keep friction loss as low as possible, do not use a hose that is smaller than 3/4".

## Operation



- ① Connect the red alligator clip to the positive (+) on the battery\*.
- ② Connect the black alligator clip to the negative (-) on the battery\*.
- ③ Turn on the pump power switch.
- ④ The pump will start, pumping in approximately 1" of water and will drain down to approximately 1/8"-1/4" of the surface.



- ⑤ Do not let the pump run dry. The pump depends on water for cooling and lubrication. Operating the pump without water may cause the motor to overheat or cause damage to internal parts. It may also shorten the life of your pump.
- ⑥ This pump is equipped with an anti-airlock hole. A stream of water will emit from this hole when the pump is operating. This is a normal feature of this pump. The anti-airlock hole should be cleaned periodically to prevent the pump from becoming air locked.
- ⑦ This pump is not recommended for pumping liquids over 120° F (49° C). Normal operation is for fluids between 32° F & 120° F (0° C- 49° C).
- ⑧ Once done pumping, turn off the power switch.

Image: An operational guide diagram illustrating pump installation and connection steps. The left side shows pump placement in water, while the right side details electrical connections to a 12-volt battery and the pump's internal operation.

## OPERATION INSTRUCTIONS

1. Connect the red alligator clip to the positive (+) terminal on your 12-volt battery.
2. Connect the black alligator clip to the negative (-) terminal on your battery.
3. Turn on the pump power switch.
4. The pump will start pumping in approximately 1" of water and will drain down to approximately 1/8"-1/4" of the surface.
5. **Do not let the pump run dry.** The pump depends on water for cooling and lubrication. Operating the pump without water may cause the motor to overheat or cause damage to internal parts. It may also shorten the lifespan of your pump.
6. This pump is equipped with an anti-airlock hole. A stream of water will emit from this hole when the pump is operating. This is a normal feature of this pump. The anti-airlock hole should be cleaned periodically to prevent the pump from becoming air locked.
7. This pump is not recommended for pumping liquids over 120°F (49°C). Normal operation is for fluids

between 32°F (0°C) and 120°F (49°C).

8. Once done pumping, turn off the power switch.



Image: A hand holding the FLOWPAC FX701-Orange submersible pump partially submerged in water, demonstrating its operation as water is being pumped out.



Image: A diagram illustrating multiple applications for the FLOWPAC FX701-Orange submersible pump, including home use, outdoors (ponds), basements, pools, flat roofs, and camping/RV scenarios.

## MAINTENANCE

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

- **Cleaning:** After each use, especially when pumping dirty water, rinse the pump thoroughly with clean water. Inspect the intake screen for debris and clean it to prevent clogging.
- **Anti-Airlock Hole:** Periodically check and clean the anti-airlock hole to ensure it is free from obstructions.
- **Storage:** When not in use, store the pump in a dry, frost-free location. Ensure all water is drained from the pump to prevent freezing damage.
- **Cable Inspection:** Regularly inspect the power cord and alligator clips for any signs of damage, fraying, or corrosion. Replace if necessary.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start or runs intermittently.	<ul style="list-style-type: none"><li>• No power to the pump.</li><li>• Battery terminals are corroded or loose.</li><li>• On/off switch is in the OFF position.</li><li>• Internal motor issue.</li></ul>	<ul style="list-style-type: none"><li>• Check battery connection and charge level.</li><li>• Clean and tighten battery connections.</li><li>• Ensure switch is ON.</li><li>• Contact customer support if motor issue is suspected.</li></ul>
Pump runs but no water is discharged or flow is low.	<ul style="list-style-type: none"><li>• Intake screen is clogged.</li><li>• Discharge hose is kinked or blocked.</li><li>• Anti-airlock hole is clogged.</li><li>• Pump is running dry (no water).</li><li>• Hose diameter is too small.</li></ul>	<ul style="list-style-type: none"><li>• Disconnect power and clean intake screen.</li><li>• Check and clear discharge hose.</li><li>• Clean the anti-airlock hole.</li><li>• Ensure pump is fully submerged in water.</li><li>• Use a hose with at least 3/4" inner diameter.</li></ul>
Pump is noisy or vibrates excessively.	<ul style="list-style-type: none"><li>• Debris inside the pump.</li><li>• Pump not placed on a stable surface.</li></ul>	<ul style="list-style-type: none"><li>• Disconnect power and inspect for debris.</li><li>• Ensure pump is on a hard, level surface.</li></ul>

## WARRANTY AND CUSTOMER SUPPORT

### Warranty Information

This FLOWPAC pump comes with a **one-year warranty** from the date of purchase. Please note that defects due to improper use of the pump are not covered under this warranty. It is prohibited to use the pump with no water, as this will void the warranty.

### Customer Support

If you have any questions about the product, require technical assistance, or need to make a warranty claim, please do not hesitate to contact our customer support team. You can typically find contact information on the product packaging or the retailer's website where you purchased the pump.

For more information about FLOWPAC products, visit our official website: [www.flowpac.com](http://www.flowpac.com)

