

MixBubole FLO900-DS Pro

MixBubole FLO900-DS Pro 1200W Utility Sink Macerator Pump Instruction Manual

1. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, injury, or death. Retain this manual for future reference.

- **Electrical Safety:** Ensure the power supply matches the pump's requirements (110V-120V/60Hz). Always disconnect power before performing any maintenance or installation. All electrical connections must be performed by a qualified electrician and comply with local codes.
- **Plumbing Safety:** Ensure all plumbing connections are secure and watertight to prevent leaks. Do not use the pump for flammable liquids, corrosive chemicals, or wastewater containing solid objects larger than those specified.
- **Personal Safety:** Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation and maintenance. Keep children and unauthorized personnel away from the pump during operation.
- **Operating Environment:** Install the pump in a well-ventilated area. Do not expose the pump to freezing temperatures.

2. PRODUCT OVERVIEW

The MixBubole FLO900-DS Pro is a 1200W utility sink macerator pump designed for efficient wastewater management in residential applications where gravity drainage is not feasible. It is suitable for connecting to sinks, showers, washing machines, and other wastewater sources in kitchens, basements, or utility rooms.

Key Features:

- **Powerful Motor:** 1200W motor with all-copper coils for robust performance and durability.
- **Macerating Blade:** Stainless steel reamer pulverizes soft debris, preventing clogs.
- **PCB Delay Function:** Upgraded model with a time delay to optimize pump activation and reduce frequency of operation, contributing to quieter performance.

- **Versatile Connections:** Features four Ø40mm universal wastewater inlets and two outlets for flexible installation with various fixtures.
- **Automatic Operation:** Fully automatic ON/OFF mechanism activates at 3 inches water level and shuts off at 2 inches.
- **Hot Water Resistance:** Capable of handling continuous water temperatures up to 60°C, and up to 4 hours at 90°C.
- **Quiet Operation:** Operates at approximately 45 dB.
- **IPX4 Waterproof Design:** Provides protection against splashing water.



Image: The MixBubole FLO900-DS Pro 1200W Utility Sink Macerator Pump, a compact white unit with various connection points on top and sides.

HOW IT WORKS ?

MIXBUBOLE macerating pump system that greatly reduces the size of the waste products. Because of this, large diameter discharge lines are unnecessary. In fact, all that is needed is a 1" or 1-1/4" or 1-1/2" diameter discharge pipe.



WHAT IS A MACERATOR?

To "macerate" is to soften and break into pieces. MIXBUBOLE macerating systems use a stainless steel rotating blade to liquefy human waste and toilet paper. When mixed with flushing water the waste is pumped into a sanitary sewer as a fine slurry.



WHAT IS A GRINDER?

The grinder will accept accidental flushing of items such as feminine hygiene products. It grinds up the waste produced (i.e. toilet use, shower, washing machine, etc.) and pumps it into sewer as a fine slurry.

Image: A diagram illustrating the difference between a macerator and a grinder. A macerator softens and breaks waste into pieces, while a grinder liquefies waste into a fine slurry.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

PACKAGE LISTING

MIXBUBOLE®



- | | | |
|------------------------------------|-------------------------|------------------------|
| 1 1200W UTILITY SINK PUMP*1 | 2 Hose Clamp(32-50mm)*5 | 3 Plastic Inlet Hose*5 |
| 4 Check Valve With Plastic Elbow*1 | 5 Hose Clamp(40-60mm)*3 | 6 Activated Carbon*1 |
| 7 Plug*1 | | |

Image: An illustration showing the main pump unit and all included accessories for installation.

- 1 x 1200W Utility Sink Pump (FLO900-DS Pro)
- 5 x Hose Clamps (32-50mm)
- 3 x Plastic Inlet Hoses
- 1 x Check Valve with Plastic Elbow
- 3 x Hose Clamps (40-60mm)
- 1 x Activated Carbon Filter
- 1 x Plug

4. INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your MixBubole FLO900-DS Pro pump. If you are unsure about any step, consult a qualified plumber or electrician.

4.1 Placement

- The pump is designed for compact spaces and can be installed under basins, inside cabinets, or near shower rooms and laundry areas.
- Ensure the pump is placed on a stable, level surface.
- Allow sufficient space around the unit for ventilation and future maintenance access.



Image: The pump unit discreetly installed under a kitchen cabinet, demonstrating its compact design.

4.2 Connecting Wastewater Inlets

- The pump features four Ø40mm universal wastewater inlets. Connect your sink, shower, washing machine, or other fixtures to these inlets using the provided plastic inlet hoses and hose clamps.
- Ensure all connections are tight and sealed to prevent leaks.
- Unused inlets must be securely capped with the provided plugs.

4.3 Connecting Discharge Outlets

- The pump has two discharge outlets. Connect the discharge pipe to one of these outlets. The other outlet should be capped if not used.
- The discharge pipe should have a minimum diameter of 1 inch (25mm) to 1-1/2 inches (38mm).
- Ensure the discharge pipe has a slight downward slope (at least 2%) towards the main sewer line to facilitate flow.
- The pump can lift wastewater vertically up to 39.4 feet and horizontally up to 394 feet.



Image: A diagram illustrating the maximum vertical (up to 12m) and horizontal pumping distances achievable by the unit.

4.4 Ventilation

- The pump includes an external exhaust valve to trap odors.
- If necessary, a 1/2-inch venting pipe can be connected to ensure proper air circulation and odor control.
- The installed activated carbon filter helps maintain an odor-free environment.

4.5 Electrical Connection

- Connect the pump to a grounded 110V-120V/60Hz power outlet.
- Ensure the electrical circuit is protected by a Ground Fault Circuit Interrupter (GFCI) for safety.
- The innovative switch system keeps all electrical components safely above the water, minimizing the risk of electrical leakage and short circuits.

5. OPERATION

The MixBubole FLO900-DS Pro pump operates automatically once properly installed and connected to power.

5.1 Automatic Activation

- The pump features a fully automatic ON/OFF mechanism. It will activate when the water level inside the unit reaches approximately 3 inches.
- The pump will continue to run until the water level drops to approximately 2 inches, at which point it will automatically shut off.



Image: A close-up view of the upgraded full-automatic switch mechanism within the pump, showing the float switch.

5.2 PCB Delay Function

- The integrated PCB (Printed Circuit Board) provides a time delay function. This prevents the pump from cycling too frequently, especially with minor water inflows, leading to quieter operation and energy savings.

5.3 Manual Switch

- A manual button is available for drainage if needed, typically for testing or specific maintenance procedures. Refer to the 'Product Details' diagram in the Installation section for its location.

6. MAINTENANCE

Regular maintenance ensures the efficient and reliable operation of your pump.

6.1 Blade Agitation and Foreign Object Removal

- In case of clogging, the cover on the top of the unit can be opened to access and agitate the blades. This allows for the removal of foreign objects without requiring complete dismantling of the pump.
- Always disconnect power before opening the cover or performing any maintenance.



WITH PCB DELAY FUNCTION

The upgraded model has a time delay, so the pump doesn't kick in too often and it runs super quietly. After reaching a certain water level and then sewage, more energy-saving.

UPGRADED STRUCTURE DESIGNED

This macerator pump is designed upgraded the machine structure, providing better sealing performance and improved stability. Greatly improve machine lifespan, reduce failure rates, lower maintenance costs.



MAINTENANCE

Cover on the top can be opened to agitate the blades and remove foreign objects when clogged, without having to dismantle the water pump.

A manual button allows for drainage tests.

Image: A visual representation of opening the top cover for maintenance, specifically to agitate blades and remove foreign objects.

6.2 Activated Carbon Filter

- The activated carbon filter helps neutralize odors. Periodically check and replace the filter as needed to maintain optimal odor control.



Image: A hand demonstrating the insertion of an activated charcoal packet into the designated compartment on the pump.

6.3 Cleaning

- The polypropylene (PP) outer shell is resistant to aging and scratches, making it easy to clean with a damp cloth.

7. TROUBLESHOOTING

Before contacting customer service, review the following common issues and solutions:

Problem	Possible Cause	Solution
Pump does not turn on.	No power, float switch stuck, motor issue.	Check power connection and circuit breaker. Ensure float switch moves freely. Contact customer service if motor issue is suspected.
Pump runs continuously.	Float switch stuck, check valve issue, continuous water inflow.	Check float switch for obstructions. Inspect check valve for proper function. Verify no constant water source is feeding the pump.
Pump is noisy.	Foreign object in macerator, pump vibrating.	Disconnect power and check macerator for foreign objects (refer to Maintenance). Ensure pump is on a stable surface.
Pump is leaking.	Loose connections, damaged seals.	Inspect all inlet and outlet connections and tighten hose clamps. Check for visible damage to the unit.
Pump is clogged.	Excessive debris, non-maceratable items.	Disconnect power. Open the top cover and agitate blades to clear debris. Remove any non-maceratable items.

8. SPECIFICATIONS

Specification	Value
Model Number	FLO900-DS Pro
Power	1200W
Voltage	110V-120V/60Hz

Specification	Value
Maximum Vertical Lift	39.4 ft (12m)
Maximum Horizontal Discharge	394 ft (120m)
Maximum Flow Rate	2800 GPH (46 Gallons Per Minute)
Motor Speed	7000 RPM
Water Inlets	4 (Ø40mm universal)
Outlets	2
Noise Level	45 dB
Continuous Water Temperature	Up to 60°C
Short-term Water Temperature	Up to 90°C (for 4 hours)
Material	Polypropylene (PP)
Product Dimensions (L x W x H)	19" x 9" x 17"
Item Weight	18.36 pounds
Waterproof Rating	IPX4
Certifications	ETL Certified

9. WARRANTY AND SUPPORT

The MixBubole FLO900-DS Pro pump comes with a 1-year manufacturer's warranty, ensuring quality and reliability. For any questions, technical assistance, or warranty claims, please contact our customer service team.

- **Manufacturer Warranty:** 1 Year
- **Customer Service:** Available 7 days a week, 24 hours a day.

Please have your model number (FLO900-DS Pro) and purchase information ready when contacting support.