

IBO 1500

IBO FURIATKA 1500 Submersible Pump User Manual

Brand: IBO | Model: FURIATKA 1500

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your IBO FURIATKA 1500 submersible pump. The FURIATKA 1500 is a robust cast iron submersible pump equipped with an efficient grinder system, designed for pumping domestic sewage, septic tank contents, and other wastewater from various sources such as lakes, ponds, and decanted water rooms. It features an automatic float switch and overload protection for reliable performance.

2. SAFETY INFORMATION

Read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Always disconnect the pump from the power supply before performing any maintenance, cleaning, or inspection. Ensure the power supply matches the pump's specifications. Use a ground fault circuit interrupter (GFCI) for electrical connections. Do not operate the pump with damaged cables or plugs.
- **Water Safety:** Never operate the pump dry. Ensure the pump is fully submerged in the liquid it is intended to pump.
- **Handling:** The pump is heavy (approximately 23.1 kg). Use appropriate lifting techniques or assistance to prevent injury.
- **Overload Protection:** The pump is equipped with an overload protection system that will automatically shut off the pump in case of motor overheating or excessive load. Do not bypass this safety feature.
- **Intended Use:** Use the pump only for its intended purpose as described in this manual. Do not pump flammable, explosive, or corrosive liquids.

3. PRODUCT OVERVIEW

The IBO FURIATKA 1500 is engineered for demanding wastewater applications. Its primary components include:

- **Cast Iron Construction:** Provides durability, resistance to mechanical damage, and chemical corrosion.
- **Grinder System:** An extremely effective 'screw' type grinder minimizes the risk of blockages by macerating solids.

- **Float Switch:** Enables automatic operation, turning the pump on and off based on liquid levels.
- **2-inch Discharge Port:** Allows for connection of a discharge hose using a band or quick-release coupling.
- **Overload Protection:** Integrated into the cable, it protects the motor from damage by stopping the pump if an overload is detected.
- **High-Quality Mechanical Seal:** Designed for a longer operational lifespan compared to traditional oil seals.



Image of the IBO FURIATKA 1500 submersible pump, featuring its robust cast iron body and green accents. This view highlights the pump's compact design and discharge outlet.

4. SETUP

Proper setup is crucial for the pump's performance and longevity.

1. **Placement:** Position the pump on a stable, level surface within the liquid to be pumped. Ensure it is fully submerged and not resting directly on sludge or debris that could impede the intake.

- 2. **Discharge Hose Connection:** Connect a 2-inch discharge hose to the pump's outlet. Secure the connection firmly using a hose clamp or quick-release coupling to prevent leaks. Ensure the hose is routed without kinks or sharp bends that could restrict flow.
- 3. **Float Switch Adjustment:** Adjust the float switch cable length to set the desired ON and OFF levels for automatic operation. Ensure the float switch can move freely without obstruction. The pump will start when the liquid level rises and lift the float, and stop when the level drops and the float falls.
- 4. **Electrical Connection:** Connect the pump to a suitable power outlet (230V, 50Hz) protected by a GFCI. Ensure the power cable is not stretched, pinched, or exposed to sharp objects.

5. OPERATING INSTRUCTIONS

The IBO FURIATKA 1500 pump is designed for continuous and automatic operation.

- **Automatic Operation:** Once connected to power and submerged, the pump will operate automatically based on the liquid level detected by the float switch. When the liquid reaches the upper set point, the pump will activate. When the liquid drops to the lower set point, the pump will deactivate.
- **Continuous Duty:** The pump is designed for extended periods of operation, provided it remains submerged and within its operational parameters.
- **Overload Protection:** In the event of an overload (e.g., due to a severe blockage or motor strain), the integrated thermal overload protector will temporarily shut down the pump to prevent damage. The pump will automatically restart once the motor cools down and the overload condition is resolved. If frequent shutdowns occur, investigate the cause immediately.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the pump's lifespan.

- **Disconnect Power:** Always disconnect the pump from the power supply before any maintenance or cleaning.
- **Grinder and Intake Inspection:** Periodically inspect the pump's intake and grinder system for any accumulated debris, fibrous materials (like wet wipes), or blockages. Clear any obstructions carefully.
- **Float Switch Check:** Ensure the float switch moves freely and is not obstructed by debris or the pump's housing.
- **Hose and Connections:** Check the discharge hose for wear, leaks, or blockages. Ensure all connections are secure.
- **General Cleaning:** Clean the exterior of the pump as needed to remove sludge or sediment buildup.
- **Mechanical Seal:** The high-quality mechanical seal is designed for durability. If you notice persistent leaks from the motor housing, professional service may be required to inspect or replace the seal.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not start	No power supply Float switch not activated Motor overload protection tripped Pump or grinder blocked	Check power connection and GFCI Ensure liquid level is high enough to activate float switch Allow motor to cool; clear any blockages Disconnect power, inspect and clear intake/grinder
Reduced flow rate	Partial blockage in pump or hose Discharge hose kinked or too long Low voltage	Disconnect power, inspect and clear blockages Straighten hose, shorten if possible Check power supply voltage
Pump runs continuously	Float switch stuck in ON position Float switch incorrectly adjusted	Disconnect power, free the float switch Adjust float switch cable length
Overload protection trips frequently	Severe blockage in grinder Pumping excessively dense material Motor overheating	Disconnect power, thoroughly clear grinder (e.g., wet wipes, fibrous material) Ensure pump is used for intended liquids Ensure adequate cooling (full submersion)

8. SPECIFICATIONS

Technical specifications for the IBO FURIATKA 1500 submersible pump:

- **Model Number:** 1500
- **Power:** 1500 W
- **Maximum Flow Rate:** 18,000 Liters per hour
- **Maximum Head:** 18 Meters
- **Maximum Submersion Depth:** 14 Meters
- **Discharge Port Size:** 2 inches
- **Material:** Cast Iron
- **Dimensions (L x W x H):** 27 x 24 x 48 cm
- **Weight:** 23.1 Kilograms
- **Power Source:** Electric Cable
- **Color:** Green

9. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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