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IBO 1245

IBO 1500W Submersible Pump with Grinder - User Manual Model 1245

For efficient pumping of dirty and clean water, including septic tanks.

1. PRODUCT OVERVIEW

The IBO 1500W Submersible Pump with Grinder (Model 1245) is designed for versatile water pumping applications. It is capable of handling both clean and dirty water, making it suitable for various tasks such as emptying flooded basements, draining swimming pools, and managing septic tank contents in households. Its high efficiency ensures rapid water removal. The pump features specially designed impellers that effectively crush solid waste and debris, preventing blockages and ensuring continuous operation. Constructed from durable cast iron (steel), this pump offers industrial-grade quality and reliability.



Figure 1: The IBO 1500W Submersible Pump with Grinder, showing the main unit, float switch, power cable, and discharge connection.

2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully before operating the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect the pump from the power supply before performing any maintenance, cleaning, or adjustments.
- Ensure the power supply voltage matches the pump's specifications (230V).
- Do not operate the pump with a damaged power cord or plug. If damaged, have it replaced by a qualified electrician.
- Never lift or carry the pump by its power cord. Use the integrated handle.
- Keep children and unauthorized persons away from the operating area.
- Do not use the pump in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Ensure the pump is fully submerged in water during operation to prevent overheating.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling the pump or working with pumped liquids.

- The pump is designed for water. Do not use it for pumping corrosive, abrasive, or highly viscous liquids.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- IBO 1500W Submersible Pump with Grinder (Model 1245)
- Float Switch (integrated)
- Power Cable with Plug
- Discharge Connection Adapter(s)
- User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
Model	1245
Power	1500 W (1.5 kW)
Voltage	230 V / 3.8 A
Max. Flow Rate	21000 l/h (300 l/min)
Max. Discharge Head	18 m
Discharge Connection	5 cm (approx. 2 inches)
Dimensions (L x W x H)	54 x 25 x 54 cm
Weight	Approx. 22 kg
Material	Cast Iron (Steel)

5. SETUP

1. **Unpacking:** Carefully remove the pump and all accessories from the packaging. Inspect for any damage during transit.
2. **Discharge Hose Connection:** Attach a suitable discharge hose to the pump's 5 cm (2-inch) outlet. Secure the hose with a clamp to prevent leaks during operation.
3. **Positioning the Pump:** Place the pump on a stable, level surface in the liquid to be pumped. Ensure the pump is fully submerged and not resting on soft mud or debris that could block the intake.
4. **Float Switch Adjustment:** The integrated float switch controls the pump's automatic on/off function. Adjust the cable length of the float switch to set the desired minimum and maximum water levels for operation. The pump will start when the float rises and stop when it drops. Ensure the float switch can move freely without obstruction.
5. **Power Connection:** Connect the pump's power plug to a grounded electrical outlet (230V). Ensure the circuit is protected by a residual current device (RCD) for safety.



Figure 2: Close-up view of the pump's intake and grinder mechanism, designed to handle solid particles.

6. OPERATING INSTRUCTIONS

1. **Initial Start-up:** Once the pump is set up and connected to power, the float switch will activate the pump automatically when the water level reaches the preset height.
2. **Continuous Operation:** For continuous pumping, ensure the float switch is positioned to remain in the "on" position. Monitor the pump's operation to ensure it is not running dry, which can cause damage.
3. **Manual Operation:** If your model includes a manual override, you can operate the pump independently of the float switch. Refer to the specific controls on your unit for manual mode activation.
4. **Shutting Down:** The pump will automatically shut off when the water level drops below the float switch's lower activation point. To manually stop the pump, disconnect it from the power supply.
5. **Grinder Function:** The integrated grinder is designed to process soft solids found in dirty water or septic tanks. Avoid pumping hard objects like stones, metal, or large pieces of wood, as these can damage the grinder and pump mechanism.

7. MAINTENANCE

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

- **Cleaning:** After each use, especially when pumping dirty water, rinse the pump thoroughly with clean water to remove any residue or debris.
- **Impeller Inspection:** Periodically inspect the pump's intake and impeller area for blockages or wear. Disconnect power before inspection. Clear any accumulated debris.
- **Float Switch Check:** Ensure the float switch moves freely and is not obstructed by debris.
- **Cable Inspection:** Regularly check the power cable and plug for any signs of damage, cuts, or fraying. Replace damaged components immediately.
- **Storage:** When not in use for extended periods, clean the pump, drain all water, and store it in a dry, frost-free location.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power supply	Check power connection, circuit breaker, and RCD.
	Float switch not activated	Ensure water level is high enough to activate the float switch. Check float switch for obstructions.
	Motor protection activated	Allow pump to cool down. Check for blockages in the impeller.
Pump runs but no water is pumped	Intake blocked	Disconnect power, clear debris from intake and impeller.
	Air in the pump (airlock)	Slightly tilt the pump while submerged to release trapped air.
Reduced pumping capacity	Partial blockage	Disconnect power, clear debris from intake and discharge hose.
	Hose kinked or too long/narrow	Straighten hose, ensure correct diameter and length for application.

If problems persist after attempting these solutions, contact qualified service personnel.

9. WARRANTY AND SUPPORT

This IBO submersible pump is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, spare parts, or warranty service, please contact your retailer or the authorized IBO service center in your region. Do not attempt to repair the pump yourself, as this may void the warranty and pose safety risks.

