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### iMeshbean 22917

# iMeshbean 1HP 110V Deep Well Submersible Pump Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your iMeshbean Deep Well Submersible Pump. Please read thoroughly before installation and use to ensure proper function and longevity of the product.

### 1.1 Product Overview

The iMeshbean 1HP 110V Deep Well Submersible Pump is engineered for reliable water supply from deep wells, suitable for industrial irrigation, home water systems, and various water lifting applications. It features robust stainless steel construction, a powerful 1HP permanent magnet motor, and a 100-foot power cord for convenient installation. The integrated control box provides essential protection features.



Image 1.1: The iMeshbean 1HP 110V Deep Well Submersible Pump, showing the main unit, 100-foot power cord, and included discharge fittings.

## 1.2 Package Contents

- iMeshbean 1HP 110V Deep Well Submersible Pump
- 100FT Power Cord (pre-attached)
- External Control Box (built-in protection)

- Discharge Outlet / Check Valve (included)
- User Manual (this document)

## 2. IMPORTANT SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Always disconnect power before servicing, inspecting, or performing maintenance on the pump. Ensure proper electrical grounding according to local and national electrical codes. The pump operates on 110V; verify your power supply matches this requirement.
- **Submersion Requirement:** The pump is designed for submersible use only. It **must be installed below the water level**. Never operate the pump dry, as this will cause severe damage and void the warranty.
- **Lifting and Lowering:** Use a strong, non-corrosive safety rope or cable attached to the designated eyelet on the pump's discharge head for lowering and retrieving the pump. **Never use the power cord to lift or lower the pump.**
- **Water Quality:** This pump is intended for pumping clean water. Avoid pumping flammable liquids, corrosive chemicals, or water containing excessive abrasive particles (e.g., heavy sand, gravel) which can damage the impellers and motor.
- **Personal Protective Equipment:** Wear appropriate personal protective equipment, such as gloves and safety glasses, during installation and maintenance.
- **Children and Unauthorized Personnel:** Keep children and unauthorized personnel away from the pump and its operating area.
- **Additional Check Valve:** Installing an additional check valve in the discharge line above the pump is highly recommended to prevent water hammer and backflow, which can extend pump life.

## 3. TECHNICAL SPECIFICATIONS

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Understanding the pump's specifications is crucial for correct application and optimal performance.

Parameter	Value
Model	22917
Power	1 HP
Voltage	110V
Amperage	6.5 Amps
Frequency	60 Hz
Maximum Flow Rate	33 GPM (Gallons Per Minute)
Maximum Head Lift	276 FT
Discharge Outlet	1-1/2" NPT
Impellers	9

Parameter	Value
Casing Compatibility	4.3" or larger OD
Power Cord Length	100 FT
Pump Body Material	Stainless Steel
Discharge Head Material	Metal
Motor Type	Permanent Magnet
Impeller Material	Thermoplastic
Protection Features	Thermal, Short-circuit, Overload Protection (built-in control box)

## 4 Inch OD Well Pump

**Power**  
**1HP**

**Voltage**  
**110V**

**Max Flow**  
**33GPM**

**Max Head**  
**276 FT**

**Check Valve / Outlet Included**

Image 3.1: Key performance specifications of the iMeshbean Deep Well Pump.

## 4. INSTALLATION GUIDE

Proper installation is critical for the pump's performance and longevity. If you are unsure about any step,

consult a qualified professional.

#### 4.1 Pre-Installation Checklist

- Verify well casing diameter is at least 4.3 inches to accommodate the pump's 4-inch OD.
- Ensure the power supply at the installation site matches the pump's voltage (110V).
- Gather necessary tools: pipe wrench, thread sealant tape, strong non-corrosive lifting rope/cable, electrical tape, waterproof wire connectors (if extending cord).
- Confirm the well depth and ensure the pump can be submerged below the lowest anticipated water level.

#### 4.2 Installation Steps

1. **Connect Discharge Pipe:** Attach a suitable discharge pipe (1-1/2" NPT) to the pump's outlet. Use thread sealant tape (Teflon tape) on the pipe threads for a watertight and secure connection.



Image 4.1: Close-up of the 1-1/2 inch NPT discharge port for pipe connection.

2. **Secure Safety Rope/Cable:** Attach a strong, non-corrosive safety rope or cable to the designated eyelet on the pump's discharge head. This rope is essential for safely lowering and retrieving the pump. **Do not use the power cord to lift or lower the pump.**
3. **Electrical Connections:** The pump comes with a 100FT power cord and an external control box. Ensure all electrical connections are secure and waterproof. If extending the cord, use appropriate waterproof connectors and follow all local electrical codes. The control box provides vital thermal, short-circuit, and

overload protection.

4. **Lowering the Pump:** Carefully lower the pump into the well using the safety rope/cable. Ensure the pump remains vertical and does not get snagged on the well casing. The pump **must be installed below the water level** to prevent dry running.

**High Lift & Large Flow**

**276FT**

**33GPM**

**ATTENTION !!!**

**Well Pump Should Be Installed Below The Water Level.**

**Installing An Additional Check Valve Is Highly Recommended**

Image 4.2: Illustration emphasizing the requirement for the pump to be installed below the water level.

5. **Connect to Power:** Once the pump is securely positioned and fully submerged, connect the control box to the main power supply. Ensure proper grounding is established.
6. **Install Additional Check Valve (Recommended):** For optimal performance and to prevent water hammer or backflow into the well, installing an additional check valve in the discharge line above the pump is highly recommended.

## 5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your iMeshbean submersible pump.

1. **Initial Start-up:** After completing the installation, ensure all connections are secure and the pump is fully submerged in water. Turn on the power supply to the control box.
2. **Monitoring:** Observe the water flow and pressure. The pump should start smoothly and deliver water at the specified flow rate (up to 33 GPM) and pressure. Listen for any unusual noises.

3. **Continuous Operation:** The pump is designed for continuous operation within its specified limits. Avoid running the pump dry, as this can cause severe damage to the motor and impellers.
4. **Shut-down:** To turn off the pump, disconnect the power supply at the control box or main switch.

## 5.1 Applications

The iMeshbean Deep Well Submersible Pump is versatile and suitable for various applications:

- **Industrial Irrigation:** Efficiently supply water for agricultural and industrial irrigation systems.
- **Home Water Supply:** Provide reliable water for residential use from deep wells.
- **Livestock Watering:** Ideal for supplying water to livestock in farms and ranches.
- **Various Well Types:** Can be implemented in ash pipe wells, steel pipe wells, or soil wells.
- **Water Lifting:** Suitable for extracting water from reservoirs, canals, rivers, and open water tanks.



Image 5.1: Examples of wide applications for the iMeshbean Deep Well Pump.

## 6. MAINTENANCE GUIDE

Regular maintenance ensures the longevity and efficient operation of your submersible pump. Always disconnect power before performing any maintenance.

- **Regular Inspection:** Periodically inspect the exposed portion of the power cord for any signs of damage, fraying, or wear. Ensure all visible connections are secure.
- **Well Cleanliness:** Ensure the well is free from excessive sediment, sand, or debris that could clog the pump's intake or impellers. While the pump has a sand filter, excessive debris can still impact performance.
- **Winterization (if applicable):** In freezing climates, if the pump system is not in continuous use, ensure all exposed water lines are drained to prevent freezing and potential damage. The pump itself is designed to be submerged, but exposed plumbing is vulnerable to frost.
- **Professional Service:** For complex issues, internal repairs, or if you suspect motor problems, consult a qualified pump technician. Do not attempt to disassemble the sealed motor unit.



Image 6.1: Internal components and heavy-duty construction of the iMeshbean pump, including the sand filter and stainless steel body.

## 7. TROUBLESHOOTING COMMON ISSUES

This section provides solutions for common operational problems. For issues not listed or if problems

persist, contact customer support.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Pump does not start	No power supply	Check power connections, circuit breaker, and the control box for tripped protection.
	Motor overload protection activated	Allow motor to cool down. Check for obstructions in the pump or low voltage conditions.
Low water flow/pressure	Pump not fully submerged	Ensure pump is below the water level. Check well water level.
	Clogged intake or impellers	Disconnect power, retrieve pump, and inspect/clean the intake screen and impellers.
	Leak in discharge pipe or plumbing	Inspect and repair any leaks in the plumbing system.
Pump runs continuously	Check valve malfunction	Inspect or replace the check valve.
	Leak in plumbing system	Inspect and repair any leaks in the water distribution system.
Pump cycles on/off frequently	Pressure tank issues (if applicable)	Consult a plumbing professional to check pressure tank settings and air charge.
	Low water level in well	Monitor well recovery rate. Avoid running pump dry.

## 8. WARRANTY INFORMATION

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Please refer to the original purchase documentation or contact iMeshbean customer support for detailed warranty terms and conditions. Keep your proof of purchase for any warranty claims.

## 9. CUSTOMER SUPPORT

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For technical assistance, parts, or service, please contact iMeshbean customer support. You can find more information and contact details by visiting the official iMeshbean store on Amazon: [iMeshbean Store](#)