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› [iMeshbean](#) /

› [iMeshbean Deep Well Submersible Pump \(1HP, 115V, 33GPM, 207ft Head\) Instruction Manual](#)

iMeshbean 07-100FT

iMeshbean Deep Well Submersible Pump Instruction Manual

Model: 07-100FT

INTRODUCTION

The iMeshbean Deep Well Submersible Pump (Model 07-100FT) is engineered for efficient water extraction from deep wells. This 1 HP, 115V, 60 Hz pump delivers a maximum flow rate of 33 GPM and a maximum head of 207 feet. Constructed with a stainless steel body and thermoplastic impellers, it offers durability and corrosion resistance for long-lasting performance. This manual provides essential information for the safe installation, operation, and maintenance of your iMeshbean submersible pump.

SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or performing maintenance on the pump. Failure to follow these instructions may result in serious injury, property damage, or electric shock.

- Always disconnect power to the pump before any installation, maintenance, or service procedures.
- Ensure the pump is properly grounded to prevent electrical shock hazards.
- Do not operate the pump in dry conditions; it must be fully submerged in water during operation.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation and maintenance.
- Consult a qualified electrician for wiring if you are unsure about electrical connections.
- Do not use the pump for flammable, corrosive, or explosive liquids. It is designed for clean water only.
- Keep children and unauthorized personnel away from the pump's operating area.

PRODUCT OVERVIEW

The iMeshbean Deep Well Submersible Pump features a robust design for reliable and efficient water pumping. Key components and features include:

- **Stainless Steel Body:** Provides excellent corrosion resistance and ensures long-term durability.
- **Thermoplastic Impellers:** Multi-stage floating impeller design for high efficiency, strong lift, large flow rate, and resistance to sand and wear.
- **1-1/4" NPT Discharge:** Standard threaded connection for easy attachment of discharge piping.

- **Built-in Control Box:** Integrated for thermal protection, short-circuit protection, and overload protection, enhancing pump safety and longevity.
- **Built-in Check Valve:** Prevents water backflow into the well, though an additional external check valve is recommended for optimal system performance.
- **33-Foot Electric Cord:** A lengthy power cord is included to facilitate installation in deep wells without the need for hazardous extension cords.

Image: Detailed view of the pump's internal components, including the motor, impellers, and strainer.



This diagram illustrates the key internal and external components of the deep well submersible pump, including the outlet, impellers, stainless steel body, strainer, copper coil motor, and oil sac.

SPECIFICATIONS

Refer to the table below for detailed technical specifications of the iMeshbean Deep Well Submersible Pump.

Specification	Value
Brand	iMeshbean
Model Number	07-100FT
Power	1 HP
Voltage	115V
Frequency	60 Hz
Work Current	10.2 Amps
Maximum Flow Rate	33 Gallons Per Minute (GPM)
Maximum Lifting Height (Head)	207 Feet
Discharge Port Size	1-1/4" NPT
Pump Diameter	4 inches (fits 4" casing)
Impellers	8 Thermoplastic Impellers
Material	Stainless Steel (body), Thermoplastic (impellers)
Electric Cord Length	33 Feet
Item Weight	33 Pounds

Image: Visual representation of the pump's key specifications.

Specifications



1-1/4 inch NPT Discharge

Power	1 HP
Voltage	110V / 60Hz
Work Current	10.3 Amps
Waterproof	IP68

Discharge	1-1/4" NPT
Diameter	4"
Max Flow	33GPM
Max Lift	207FT

This image displays a summary of the pump's technical specifications, including power, voltage, discharge size, diameter, maximum flow, and maximum lift.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your submersible pump. Follow these steps carefully:

1. Pre-Installation Check:

- Verify that your well casing diameter is at least 4 inches to accommodate the pump.
- Ensure your power supply matches the pump's requirements (115V, 60Hz).
- Inspect the pump for any visible damage that may have occurred during shipping.

2. Connecting Discharge Pipe:

- Attach a suitable discharge pipe (1-1/4" NPT) to the pump's outlet. Use appropriate thread sealant (e.g., PTFE tape) to ensure a watertight and leak-free connection.

Image: Close-up of the 1-1/4 inch NPT discharge port on the pump.

External Check Valve



This image shows the 1-1/4 inch NPT discharge port on the pump, along with an example of an external check valve and adapter for connection. An external check valve is recommended to prevent backflow and protect the pump.

3. Installing Additional Check Valve (Recommended):

- Although the pump has a built-in check valve, installing an additional external check valve in the discharge line, typically above the pump, is highly recommended. This provides extra protection against water backflow and reduces wear on the pump.

4. Securing the Pump:

- Attach a strong safety rope or cable to the pump's designated lifting eye. This rope is essential for safely lowering and retrieving the pump from the well. Do not rely solely on the power cable for support.

5. Lowering the Pump:

- Carefully lower the pump into the well using the safety rope. Ensure the pump remains fully submerged below the water level at all times during operation. Avoid dropping the pump or allowing it to hit the bottom of the well forcefully.

Image: Diagram illustrating a deep well pump installation with the pump submerged below the water level.

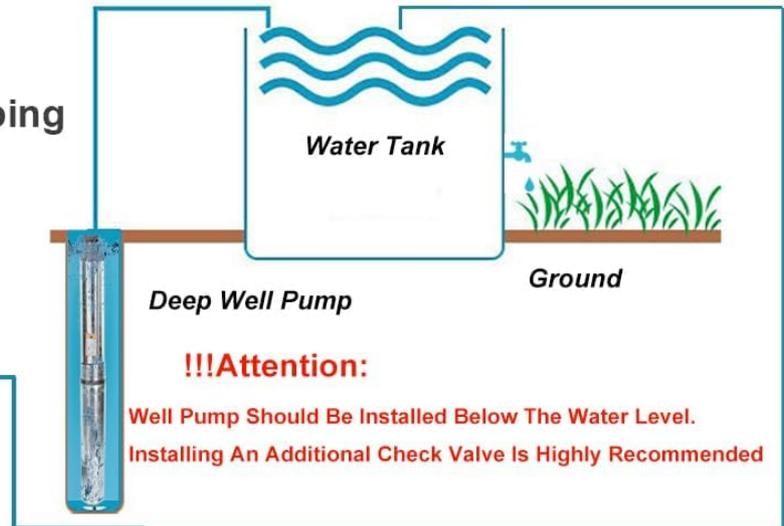
Wide Application

Perfect Water Pumping Solution

- ▶ Simple Installation
- ▶ Easy Maintenance
- ▶ Cost-efficient Pumping



Deep Well



Irrigation



Household



Livestock

This diagram illustrates the typical installation of a deep well pump, showing it submerged in a well and its various applications, including irrigation, household water supply, and livestock watering.

6. Electrical Connection:

- The pump comes equipped with a 33-foot electric cord. Connect this cord to a properly grounded 115V, 60Hz power source. Ensure all electrical connections are secure and protected from moisture.
- The built-in control box provides essential thermal, short-circuit, and overload protection, eliminating the need for an external control box.

Image: Comparison of a short power cord versus the iMeshbean 33-foot power cord.

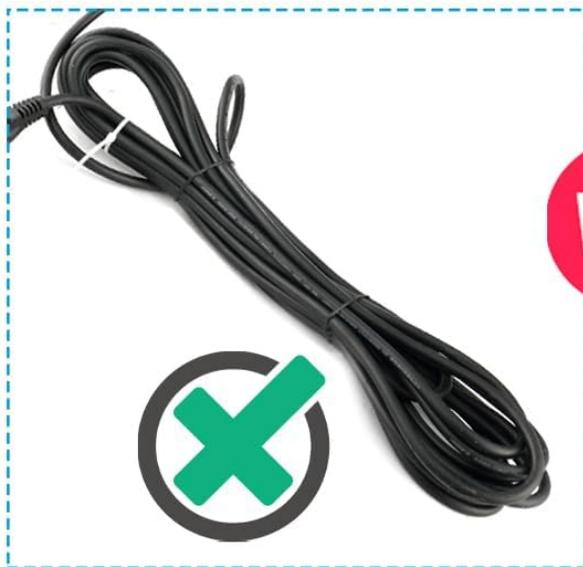
33FT Power Cord

Features 33ft Power Cord-

Will Better Meet Your Needs

Short power cord is usually not enough to get to the top of the well, Using an extension cord with a pump is dangerous and will damage your pump.

Others:10ft



iMeshbean:33ft

Length : 33ft

Material : Full Copper

VS



This image highlights the advantage of the pump's 33-foot power cord, contrasting it with shorter cords that often require dangerous extension cords for deep well applications.

OPERATING INSTRUCTIONS

Follow these guidelines for proper operation of your iMeshbean submersible pump:

1. Initial Start-up:

- Once the pump is fully installed and submerged in the well, connect it to the appropriate power supply.
- The pump will begin to draw water. Allow it to run for a few minutes to purge any air from the system and ensure a steady flow.

2. Continuous Operation:

- The pump is designed for continuous operation as long as it remains fully submerged and the water level in the well is adequate.
- Monitor water flow and pressure periodically to ensure optimal performance.

3. Shutting Down:

- To turn off the pump, simply disconnect it from the power supply.

- Avoid frequent on/off cycles, as this can reduce the lifespan of the pump motor.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your pump.

1. Regular Inspection:

- Periodically check the pump's performance and water output. Any significant decrease may indicate an issue.
- Inspect the power cord for any signs of damage, fraying, or wear. Replace if necessary.

2. Cleaning the Intake Screen:

- If the pump's performance decreases, it may be due to debris clogging the intake screen. Disconnect power, carefully retrieve the pump from the well, and thoroughly clean the stainless steel intake screen.

Image: Close-up of the stainless steel strainer on the pump.



This image provides a detailed view of the stainless steel strainer, which protects the pump from large debris. Regular cleaning of this strainer is essential for maintaining pump efficiency.

3. Winterization (if applicable):

- In regions with freezing temperatures, if the pump is not in continuous use, it should be removed from the well and stored in a frost-free location to prevent damage from freezing water.

TROUBLESHOOTING

If you encounter issues with your pump, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump Not Starting	No power supply, tripped circuit breaker, faulty wiring, internal protection tripped.	Check power connections. Reset circuit breaker/fuse. Inspect wiring for damage. Allow pump to cool if thermal protection tripped.
Low Water Flow/Pressure	Clogged intake screen, low water level in well, leak in discharge piping, worn impellers.	Disconnect power, retrieve and clean intake screen. Ensure pump is fully submerged. Check for and repair leaks. Contact support if impellers are suspected.

Problem	Possible Cause	Solution
Pump Runs Continuously	Leak in the system, faulty check valve, pump not reaching shut-off pressure (if pressure switch is used).	Inspect entire water system for leaks. Check the built-in and any external check valves. Ensure proper pressure switch settings if applicable.
Pump Cycles On/Off Frequently	Low water level in well (pump running dry), small leak in system, faulty pressure tank (if used), faulty pressure switch.	Check well water level. Inspect for small leaks. Check pressure tank and pressure switch if part of your system.
No Water Output	Pump not primed (air in line), severe clog, pump running dry, discharge pipe blocked.	Ensure pump is fully submerged. Check for and clear any blockages in the intake or discharge line.

WARRANTY AND SUPPORT

The iMeshbean Deep Well Submersible Pump is manufactured by Newgate. For warranty claims, technical assistance, or any questions not covered in this manual, please contact the seller or manufacturer directly. It is important to retain your purchase receipt or proof of purchase, as this will be required for any warranty service. Specific warranty duration and terms may vary; please refer to the documentation provided at the time of purchase for complete details.

