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IRONMAX EP-25184-HYL

IRONMAX 1.6HP Shallow Well Pump User Manual

Model: EP-25184-HYL

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your IRONMAX 1.6HP Shallow Well Pump with Pressure Tank. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent damage or injury.

The IRONMAX shallow well pump system is designed for boosting water pressure and garden irrigation. It is suitable for various applications including domestic water supply, faucet and shower pressurization, groundwater and well water extraction, farmland irrigation, livestock watering, and water tower pressurization.



Figure 1: IRONMAX 1.6HP Shallow Well Pump with Pressure Tank. This image shows the complete pump unit, featuring a blue motor housing and a blue pressure tank, with the power cord visible.

Safety Instructions

Always adhere to the following safety guidelines to prevent personal injury or damage to the equipment:

- Ensure the pump is connected to a properly grounded 120V-60Hz power source.
- Do not operate the pump with flammable or corrosive liquids.
- Always disconnect power before performing any maintenance or service.
- Protect the pump from freezing temperatures to prevent damage to internal components.
- Keep children and unauthorized personnel away from the operating pump.
- Ensure adequate ventilation around the pump during operation.

Components Overview

Familiarize yourself with the main components of your shallow well pump:

- **Motor:** 1.6HP, 1200W permanent magnet separation capacitor motor for efficient operation.
- **Pressure Tank:** 5-gallon capacity, designed to maintain water pressure automatically.
- **Pressure Gauge:** Provides real-time observation of water pressure.
- **Pressure Switch:** Pre-set at 20/40 psi for automatic operation (adjustable).
- **Suction Inlet:** For connecting the water source (1" NPT hose fitting).
- **Discharge Outlet:** For connecting to the water distribution system.
- **Thermal and Overload Protection:** Built-in safety features to prevent motor damage.



Figure 2: Key Components. This image displays close-up views of the pressure gauge, ventilation slots, dust-proof switch, and the solid construction of the pump's base, highlighting important functional and structural elements.

Setup and Installation

Proper installation is crucial for optimal performance and longevity of the pump.

1. Placement

1. Place the pump on a stable, level surface to prevent shaking or tipping.
2. Ensure the location is dry, well-ventilated, and protected from direct sunlight and freezing temperatures.
3. Keep the pump as close to the water source as possible to maximize suction efficiency.

2. Plumbing Connections

1. Connect the suction line (from water source) to the pump's suction inlet (1" NPT). Use appropriate thread sealant to ensure a watertight connection.
2. Connect the discharge line (to irrigation system or household) to the pump's discharge outlet.
3. Ensure all connections are tight to prevent air leaks, which can affect pump performance.

3. Priming the Pump

Important: The pump must be primed with water before its first use and after any period of non-use where water may have drained.

1. Locate the priming port on the pump housing (usually a cap on top of the pump head).
2. Remove the priming cap.
3. Pour water into the priming port until the pump casing and suction line are completely filled.
4. Replace the priming cap securely.

4. Electrical Connection

1. Plug the pump into a grounded 120V-60Hz electrical outlet.
2. Ensure the electrical circuit is protected by a Ground Fault Circuit Interrupter (GFCI) for added safety, especially in outdoor or damp environments.



Figure 3: Pump Connections. This image provides a side view of the pump, illustrating the connection points for the suction and discharge lines, and the power cord.

Operating Instructions

Once installed and primed, operating the pump is straightforward.

1. Ensure all plumbing connections are secure and the pump is primed.
2. Turn on the power switch (red switch on the motor housing).
3. The pump will start and build pressure. The pressure gauge will indicate the current system pressure.
4. The pressure switch is pre-set to turn the pump on when pressure drops to 20 psi and turn it off when it reaches 40 psi, maintaining consistent water pressure.
5. To stop the pump, turn off the power switch.

Applications



Figure 4: Versatile Applications. This image illustrates various uses for the pump, including domestic water supply (Home), drawing water from wells (Water Wells), supplying water to multi-story buildings (Building), and garden irrigation (Garden).



Figure 5: Garden Irrigation. This image shows the pump in use for garden irrigation, demonstrating its effectiveness in outdoor watering tasks.

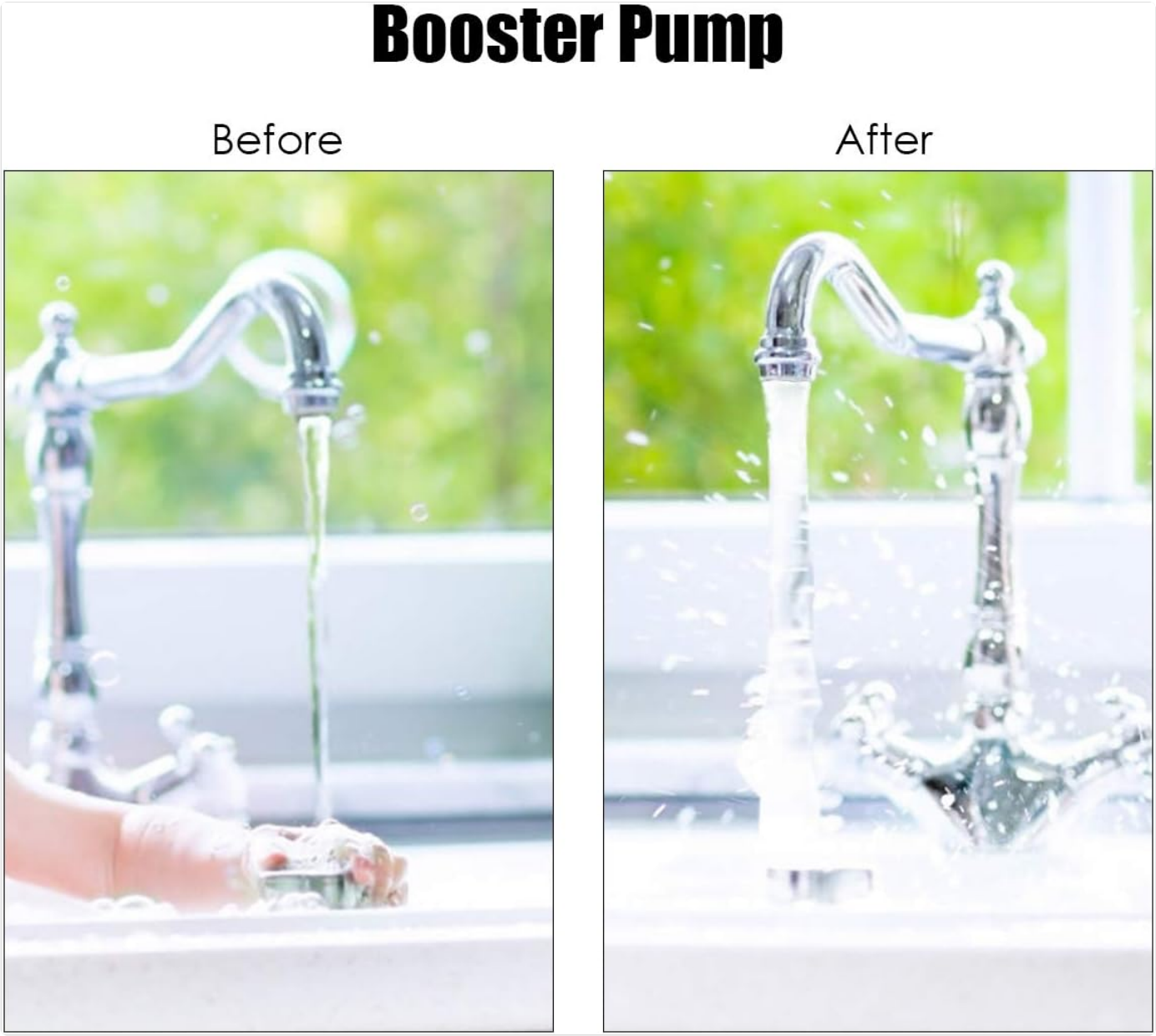


Figure 6: Water Pressure Boost. This image visually compares faucet water pressure "Before" and "After" the use of the booster pump, clearly showing a significant increase in water flow and pressure.

Maintenance

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

- **Winterization:** If the pump will be exposed to freezing temperatures, drain all water from the pump and pipes to prevent damage. Store in a dry, protected area.
- **Cleaning:** Periodically clean the exterior of the pump to remove dirt and debris.
- **Check Connections:** Regularly inspect all plumbing and electrical connections for leaks or corrosion. Tighten as necessary.
- **Pressure Tank Maintenance:** The pressure tank is pre-charged. If pressure issues arise, consult a professional for tank pressure adjustment.

Troubleshooting

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty switch.	Check power supply; reset breaker; inspect switch.
Pump runs but no water or low flow	Pump not primed; air leak in suction line; clogged inlet.	Re-prime the pump; check all suction connections for leaks; clear any obstructions.
Pump cycles on and off frequently	Air in pressure tank; pressure switch setting incorrect; small leak in system.	Consult professional for tank air charge; check for leaks in plumbing.
Pump is noisy	Cavitation (air in pump); worn bearings; foreign object in impeller.	Ensure pump is fully primed; inspect for damage or obstructions.

Specifications

Specification	Value
Model Number	EP-25184-HYL
Power	1200W (1.6 HP)
Voltage	120V-60Hz
Max Flow Rate	1000 Gallons Per Hour (16.67 GPM)
Max Lifting Height	165 Feet
Max Suction Height	30 Feet
Max Temperature	35°C / 95°F
Tank Capacity	5 Gallons (20L)
Hose Fitting	1" NPT
Net Weight	25 Lbs
Overall Dimensions (LxWxH)	19" x 10" x 20"
Cable Length	4 Feet
Material	Cast Iron, Plastic



Figure 7: Product Dimensions. This image provides a visual representation of the pump's overall dimensions: 19 inches in length, 10 inches in width, and 20 inches in height.

Warranty and Support

For warranty information or technical support, please contact IRONMAX customer service. Refer to the product packaging or the official IRONMAX website for the most current contact details.
When contacting support, please have your model number (EP-25184-HYL) and purchase date available.

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