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Everbilt EFLS15-HD

Everbilt 1-1/2 Hp Thermoplastic Sprinkler Pump User Manual

Model: EFLS15-HD

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Everbilt 1-1/2 Hp Thermoplastic Sprinkler Pump. This high-capacity pump is engineered to boost water pressure from city water sources or draw water from lakes and streams for various sprinkling and irrigation applications. It features a robust 1-1/2 HP dual voltage motor and a corrosion-resistant thermoplastic construction, ensuring durability and reliable performance. The pump is self-priming after its initial fill with water, simplifying setup.



Image 1.1: The Everbilt 1-1/2 Hp Thermoplastic Sprinkler Pump, showcasing its compact design and durable thermoplastic housing.

2. SAFETY INFORMATION

Read and understand all safety warnings and instructions before installing or operating this pump. Failure to follow these instructions can result in electric shock, fire, serious injury, or death.

- **Electrical Safety:** Always disconnect power before servicing the pump. Ensure the pump is properly grounded. All electrical wiring should be performed by a qualified electrician and comply with local codes. Do not operate the pump with a damaged cord or plug.
- **Water Safety:** Never run the pump dry, as this can cause severe damage. Protect the pump and plumbing from freezing temperatures to prevent cracking and leaks.
- **General Safety:** Wear safety glasses when working with the pump. Keep children and unauthorized persons away from the operating area. Do not use this pump for flammable or corrosive liquids.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The package should contain:

- Everbilt 1-1/2 Hp Thermoplastic Sprinkler Pump (1 unit)
- User Manual (this document)

4. SETUP

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

4.1 Location

- Install the pump on a firm, level surface to minimize vibration.
- Choose a location that is protected from direct sunlight, rain, and freezing temperatures.
- Ensure adequate ventilation around the motor for cooling.

4.2 Piping Connections

- Use appropriate pipe sizes for the inlet and outlet to ensure optimal flow and prevent cavitation.
- Apply thread sealant to all pipe connections to prevent air leaks, especially on the suction side.
- Install a foot valve with a strainer on the end of the suction line if drawing water from a lake or stream to prevent debris from entering the pump and to maintain prime.
- Install a check valve on the discharge side if necessary to prevent backflow.

4.3 Electrical Connection

- The pump features a dual voltage motor (115V or 230V). Ensure the motor is wired for the correct voltage supply available. Refer to the motor's wiring diagram for specific instructions.
- Connect the pump to a dedicated, properly fused electrical circuit.
- Ensure the pump is properly grounded to prevent electrical shock hazards.

4.4 Priming the Pump

Before initial operation, the pump must be primed:

1. Remove the priming plug located on top of the pump casing.
2. Fill the pump casing completely with water until it overflows.
3. Replace the priming plug securely.
4. Ensure all valves on the suction and discharge lines are open.

5. OPERATING INSTRUCTIONS

Once installed and primed, the pump is ready for operation.

5.1 Starting the Pump

1. Verify that all connections are tight and there are no visible leaks.
2. Ensure the suction line is submerged in water (if drawing from a source) and the discharge line is open.
3. Turn on the electrical power to the pump. The pump should start and begin moving water.
4. Monitor the pump for the first few minutes of operation for any unusual noises or vibrations.

5.2 Stopping the Pump

To stop the pump, simply turn off the electrical power supply.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump.

6.1 Regular Checks

- Periodically inspect the pump and piping for any signs of leaks, corrosion, or damage.
- Clean any debris from the suction strainer (if applicable) to maintain proper flow.
- Ensure the motor's ventilation openings are clear of obstructions.

6.2 Winterization (for cold climates)

If the pump will be exposed to freezing temperatures, it must be drained to prevent damage:

1. Disconnect power to the pump.
2. Remove the drain plug(s) from the pump casing and any low points in the piping system.
3. Allow all water to drain completely.
4. Store the pump in a dry, protected area if possible, or ensure all plugs are reinstalled loosely to allow for air circulation.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

| Problem | Possible Cause | Solution |
|------------------------------|--|---|
| Pump does not start | No power; tripped circuit breaker; incorrect wiring; motor issue. | Check power supply and circuit breaker. Verify wiring. Consult a qualified electrician if motor issues are suspected. |
| Low water flow or pressure | Pump not primed; air leak in suction line; clogged strainer/impeller; incorrect pipe size. | Re-prime the pump. Check all suction line connections for leaks. Clean strainer and impeller. Ensure appropriate pipe sizing. |
| Pump runs but no water moves | Pump not primed; suction line not submerged; air lock. | Ensure pump is fully primed. Verify suction line is adequately submerged. Bleed air from the system if an air lock is suspected. |
| Excessive noise or vibration | Air in system; loose mounting; worn bearings; cavitation. | Check for air leaks and re-prime. Tighten mounting bolts. If bearings are worn, professional service may be required. Ensure adequate water supply to prevent cavitation. |
| Pump leaks | Loose connections; damaged seals/gaskets; cracked casing. | Tighten all pipe connections. Inspect and replace damaged seals or gaskets. If casing is cracked, the pump may need replacement. |

8. SPECIFICATIONS

Technical details for the Everbilt 1-1/2 Hp Thermoplastic Sprinkler Pump.

Manufacturer: Everbilt

Model Number: EFLS15-HD

Part Number: EFLS15-HD

Colour: Black

Style: Above Ground

Material: Plastic, Polypropylene (PP)

Power Source Type: AC/DC

Voltage: 115 Volts (AC) / 230 Volts (AC) (Dual Voltage)

Horsepower: 1-1/2 HP

Pumping Capacity: Up to 4020 GPH (Gallons Per Hour)

Maximum Lifting Height (Suction Depth): Up to 20 Feet

Item Package Quantity: 1

Item Weight: 19.5 kg

Product Dimensions: 76.2 x 40.64 x 40.64 cm (Length x Width x Height)

UPC: 856594003961

Date First Available: 22 June 2015

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Everbilt customer service. Keep your purchase receipt as proof of purchase for any warranty claims. Detailed contact information can typically be found on the product packaging or the official Everbilt website.