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› Liberty Pumps ELV280 Condensate Pump Instruction Manual

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Liberty Pumps ELV280 Condensate Pump Instruction Manual

Model: ELV280 | Brand: Liberty Pumps

1. INTRODUCTION

The Liberty Pumps ELV280 is a robust condensate pump designed for efficient removal of condensate from air conditioning systems, furnaces, dehumidifiers, and other equipment where condensate drainage is required. This manual provides essential information for the safe and effective installation, operation, and maintenance of your ELV280 pump.



Image 1.1: The Liberty Pumps ELV280 Condensate Pump. This image displays the overall design of the pump unit, including its housing and connection points.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect all electrical power to the pump and the equipment it serves before attempting any installation, service, or maintenance. Failure to do so can result in serious injury or death.

CAUTION: Read all instructions carefully before installation and operation. Improper installation or use can lead to equipment damage, property damage, or personal injury.

- Ensure the pump is installed by a qualified professional in accordance with local electrical and plumbing codes.
- Do not operate the pump with a damaged power cord or plug.
- Do not use the pump to handle flammable or corrosive liquids.
- Keep hands clear of moving parts during operation.
- Ensure the pump is properly grounded.

3. SETUP AND INSTALLATION

The ELV280 features an easy clamp-mount installation with plug-in ready wiring for simplified setup.

3.1 Mounting the Pump

1. Select a stable, level surface near the condensate source.
2. Secure the pump using the integrated clamp-mount system. Ensure the pump is level to allow for proper float operation.

3.2 Plumbing Connections

1. Connect the condensate drain line from the appliance to the pump's inlet port. Ensure a tight, leak-free connection.
2. Connect a discharge line (typically 3/8" or 1/2" tubing) to the pump's outlet port. Route the discharge line to an appropriate drain, ensuring it is free of kinks and has a continuous upward slope to prevent backflow.
3. Install a check valve (if not integrated) in the discharge line to prevent water from flowing back into the pump when it shuts off.

3.3 Electrical Connections

1. The ELV280 operates on 115V AC power. Ensure the power supply matches the pump's requirements.
2. Utilize the quick-connect power cord. Plug the pump into a properly grounded 115V electrical outlet.
3. If using the remote alarm feature, connect the alarm contacts to a suitable alarm system or device as per the alarm system's instructions.

4. OPERATING INSTRUCTIONS

The Liberty Pumps ELV280 is designed for automatic operation.

1. Once properly installed and connected to power, the pump will activate automatically when the condensate level in the reservoir rises to a predetermined level.
2. The pump will run until the condensate level drops, then shut off.
3. The remote alarm contacts will activate if the water level rises above the normal operating range, indicating a potential issue or overflow condition. Address any alarm conditions promptly.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your ELV280 pump.

5.1 Recommended Maintenance Schedule

- **Monthly:** Inspect the pump and reservoir for debris, sludge, or blockages.
- **Quarterly:** Clean the reservoir and check valve.
- **Annually:** Inspect all plumbing and electrical connections for wear or damage.

5.2 Cleaning Procedure

1. **Disconnect Power:** Always disconnect the pump from the electrical outlet before cleaning.
2. **Drain Reservoir:** If possible, manually drain the reservoir or allow it to pump out naturally.
3. **Remove Debris:** Carefully remove any accumulated sludge, sediment, or debris from the reservoir. A soft brush or cloth can be used.
4. **Clean Check Valve:** Inspect and clean the check valve to ensure it operates freely and is not obstructed.
5. **Rinse:** Rinse the reservoir with clean water.
6. **Reconnect:** Reconnect all plumbing and electrical connections, then restore power.

6. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not run	No power; Clogged inlet/outlet; Defective float switch	Check power supply; Clear blockages; Inspect/replace float switch
Pump runs continuously	Stuck float switch; Clogged discharge line; Defective check valve	Free float switch; Clear discharge line; Inspect/replace check valve
Pump cycles frequently	Small amount of condensate; Backflow from discharge line	Ensure proper check valve operation; Verify discharge line slope
Water leaks from pump	Loose connections; Cracked housing; Damaged seals	Tighten connections; Inspect housing for damage; Replace seals if necessary
Remote alarm activates	High water level; Pump failure; Clogged system	Investigate cause of high water; Refer to other troubleshooting steps

7. SPECIFICATIONS

Key technical specifications for the Liberty Pumps ELV280 Condensate Pump:

Specification	Value
Brand	Liberty Pumps
Model Number	ELV280
Voltage	120 Volts
Horsepower	0.5 HP
Power Source	AC/DC
Material	Cast Iron, Polypropylene (PP)

Specification	Value
Item Weight	40 Pounds
Product Dimensions (L x W x H)	16.5" x 16.5" x 1"
UPC	671812114850

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Liberty Pumps ELV280, please refer to the documentation included with your purchase or visit the official Liberty Pumps website. Warranty terms and conditions may vary.

If you require technical assistance, replacement parts, or have questions not covered in this manual, please contact Liberty Pumps customer support:

- **Website:** www.libertypumps.com
- **Customer Service:** Refer to the website for current contact numbers and hours of operation.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

