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› Asurity by Diversitech ULTRACP-22 120V Compact HVAC Condensate Pump User Manual

Diversitech ULTRACP-22

Asurity by Diversitech ULTRACP-22 120V Compact HVAC Condensate Pump User Manual

Model: ULTRACP-22

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Asurity by Diversitech ULTRACP-22 120V Compact HVAC Condensate Pump. This pump is designed to automatically remove condensate from HVAC/R equipment such as air conditioners, furnaces, and dehumidifiers. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Asurity ULTRACP-22 Condensate Pump highlighting key features.

2. SAFETY INFORMATION

Always disconnect power before servicing the pump or connected equipment. Ensure the pump is installed on a level surface to prevent overflow. Do not pump flammable liquids or chemicals. This pump is designed for condensate up to 160°F (71°C). Refer to local electrical and plumbing codes for proper installation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Asurity ULTRACP-22 Condensate Pump
- Power Cord
- Installation and Safety Instructions

- Wiring for alarm system (optional use)

4. SETUP

The ULTRACP-22 pump features a compact design and multiple inlet options for flexible installation.

4.1 Placement

Place the pump on a stable, level surface. The pump can also be mounted using the integrated metal mounting tabs. Ensure the pump is positioned to receive condensate from your HVAC unit via one of the four available inlet holes.



22' MAX VERTICAL LIFT

Powerful **vertical discharge** up to 22',
allowing for **flexible installation** in basements, attics,
utility closets, and other **constrained spaces**.

Figure 2: Compact design of the ULTRACP-22 pump for versatile placement.

4.2 Condensate Inlet Connection

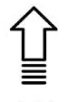
Connect the condensate drain line from your HVAC equipment to one of the four inlet holes on the pump. The translucent red tank allows for easy visual inspection of water levels and potential blockages.



Figure 3: Proper placement and connection of the condensate pump.

4.3 Discharge Line Connection

Attach a suitable discharge hose to the pump's outlet port. Ensure the hose is securely fastened and routed to a proper drain. The pump is capable of a maximum vertical lift of 22 feet.



22'
Max Lift Height



Space-saving
Compact Design



Operates Up To
160°F



Removable
Check Valve



120V AUTOMATIC HVAC CONDENSATE PUMP

Figure 4: The pump's capability for 22 feet of vertical lift.

4.4 Electrical Connection

Plug the pump's power cord into a standard 120V AC outlet. The pump also includes wiring for an optional alarm system, which can be connected to your HVAC system to shut it down in case of a pump malfunction or overflow.

Your browser does not support the video tag.

Video 1: Overview of the Diversitech CP-22 Condensate Pump, demonstrating its components and basic setup.

Your browser does not support the video tag.

Video 2: Detailed unboxing and installation of the ULTRACP-22 Ultra Series Automatic Condensate Pump for HVAC.

5. OPERATING INSTRUCTIONS

The Asurity ULTRACP-22 operates automatically. When condensate water in the reservoir reaches a predetermined level, an internal float switch activates the pump. The pump will then discharge the water through the connected hose until the water level

drops, at which point the pump will turn off.

5.1 LED Indicators

The pump features LED indicators on its top panel to provide status information:

- **POWER:** Indicates the pump is receiving electrical power.
- **RUN:** Illuminates when the pump motor is actively discharging condensate.
- **ALARM:** Lights up if the water level exceeds the normal operating range, indicating a potential issue or overflow condition.



Figure 5: The pump in an operational setup, showing connections.

6. MAINTENANCE

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

6.1 Cleaning the Reservoir

Periodically inspect the translucent reservoir for algae or sludge buildup. Disconnect power, remove the motor assembly, and clean the reservoir with warm, soapy water. Rinse thoroughly before reassembling.

6.2 Check Valve

The pump includes a removable check valve. Inspect it during cleaning to ensure it is free of debris and functioning correctly to prevent backflow.



DURABLE AND COMPATIBLE

High-performance motor is built for standard HVAC/R systems and can **safely manage** warm condensate from AC units, gas furnaces, and dehumidifiers.

Figure 6: The removable check valve for easy cleaning and maintenance.

6.3 Condensate Tablets

For continuous maintenance and to prevent biological growth, condensate pan treatment tablets can be placed in the designated compartment. These tablets dissolve slowly, helping to keep the lines clear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not run	No power; Float switch stuck; Motor failure	Check power connection; Inspect float for obstructions; Contact support if motor fails.
Water overflow	Clogged discharge line; Pump not level; Pump capacity exceeded	Clear discharge line; Ensure pump is level; Verify pump capacity meets demand.

Problem	Possible Cause	Solution
Alarm LED is on	High water level; Float switch malfunction	Check for clogs or pump failure; Inspect float switch.
Excessive noise	Debris in pump; Loose mounting	Clean pump interior; Secure mounting tabs.

8. SPECIFICATIONS

Feature	Specification
Model Number	ULTRACP-22
Voltage	120 Volts
Maximum Lift Height	22 Feet
Maximum Flow Rate	1.8 Gallons Per Minute
Condensate Temperature	Up to 160°F (71°C)
Product Dimensions (L x W x H)	11.75" x 6" x 7.75"
Material	Plastic
Color	Red (translucent reservoir)
Included Components	Condensate pump

9. WARRANTY

The Asurity by Diversitech ULTRACP-22 Condensate Pump comes with a **3-Year Protection Plan**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the manufacturer's website.



Figure 7: The ULTRACP-22 pump is backed by a 3-year warranty.

10. SUPPORT

For technical assistance, replacement parts, or warranty claims, please contact Diversitech customer support. You can find contact information on the official Diversitech website or in the product packaging.

Visit the [Diversitech Store](#) for more information and products.

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