

Diversitech CP-22LPT

Asurity by Diversitech CP-22LPT Low Profile Condensate Pump User Manual

Model: CP-22LPT

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Asurity by Diversitech CP-22LPT Low Profile Condensate Pump. This pump is designed to automatically evacuate condensate or water discharge from HVACR equipment, offering a vertical lift capability of up to 22 feet. Its low-profile design makes it suitable for installations in tight spaces.

SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Electrical Hazard:** Disconnect power before servicing. This unit operates on 110 Volts. Ensure all electrical connections comply with local codes.
- **Water Hazard:** This pump handles water. Ensure proper drainage and prevent water damage.
- **Installation:** Install the pump in a location where it is accessible for maintenance and inspection.
- **Intended Use:** Use this pump only for its intended purpose of evacuating condensate from HVACR equipment.
- **UL Listed:** This product is UL listed, meeting electrical and mechanical safety standards for water pumps.

PACKAGE CONTENTS

Verify that all items are present before beginning installation:

- Asurity by Diversitech CP-22LPT Condensate Pump
- 20 ft Clear Vinyl Tubing
- 4 ft Safety Switch Wire (pigtail)

PRODUCT OVERVIEW

The Asurity CP-22LPT condensate pump features a compact design with advanced functionalities for reliable condensate removal.



Image 1: The Asurity CP-22LPT low profile condensate pump shown with the included clear vinyl tubing. The pump features a red base and a black motor housing with ventilation slots and an outlet port.



Image 2: A top-down view of the Asurity CP-22LPT condensate pump, accompanied by the coiled clear vinyl tubing and the yellow safety switch wire. This image highlights all primary components included with the unit.



Image 3: A side perspective of the Asurity CP-22LPT condensate pump, illustrating its low-profile design. This view emphasizes the compact dimensions suitable for installation in confined spaces.

Key Features:

- LED Status Indicator Lights (Power, Run, Alarm)
- Vibration Dampening System for quiet operation
- Integrated Safety Switch with 4 feet of wire for air-handler shutdown
- Low profile design for tight installations
- Metal mounting tabs for secure installation
- Four inlet holes (with 3 poly covers for unused ports)
- Float switch and duckbill-style check valve

SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Ensure all local electrical and plumbing codes are followed.

1. **Placement:** Position the pump on a level surface near the HVACR unit. The low-profile design is ideal for tight spaces. Utilize the vibration dampening feet and metal mounting tabs for secure placement.
2. **Condensate Inlet Connection:** Connect the condensate drain line from the HVACR unit to one of the pump's inlet holes. The pump has four inlet holes; seal any unused inlets with the provided poly covers.
3. **Discharge Line Connection:** Connect the 20 ft clear vinyl tubing to the pump's discharge outlet. Route the tubing upwards, ensuring it does not exceed the pump's 22 ft vertical lift capability, and then to a suitable drain point. Avoid kinks or sharp bends in the tubing. The integrated duckbill-style check valve prevents backflow.

- 4. **Electrical Connection:** Connect the pump to a dedicated 110V power supply. Ensure the power source is off before making connections.
- 5. **Safety Switch Connection:** Connect the 4 ft safety switch wire (pigtail) to the air-handler's shutdown circuit. This feature is designed to shut down the HVACR unit if the pump fails or the water level rises too high, preventing overflow. Refer to your HVACR unit's manual for specific wiring instructions for the safety switch.
- 6. **Testing:** After installation, manually pour water into the pump's reservoir to verify proper operation. The pump should activate, discharge the water, and then shut off. Check for any leaks.

OPERATING INSTRUCTIONS

The Asurity CP-22LPT condensate pump operates automatically once properly installed and powered.

- When condensate water enters the pump's reservoir and reaches a predetermined level, the internal float switch activates the pump.
- The pump will then discharge the water through the connected vinyl tubing to the designated drain.
- Once the water level drops, the float switch deactivates the pump.
- **LED Indicators:**
 - **Pwr (Power):** Illuminates when the pump is receiving electrical power.
 - **Run:** Illuminates when the pump motor is actively discharging water.
 - **Alrm (Alarm):** Illuminates if the water level rises to the high-level alarm switch, indicating a potential issue and activating the safety shutdown circuit.

MAINTENANCE

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

- **Monthly Inspection:** Check the pump reservoir for sludge, mold, or debris. Clean as necessary.
- **Cleaning:** Disconnect power before cleaning. Remove the pump cover and clean the reservoir with a mild detergent and water. Ensure the float switch moves freely.
- **Discharge Line:** Inspect the vinyl tubing for blockages, kinks, or leaks. Clear any obstructions.
- **Inlet Ports:** Ensure inlet ports are clear of debris.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not run	No power; Clogged inlet/outlet; Stuck float switch; Motor failure	Check power supply; Clear blockages; Inspect/clean float switch; Contact support if motor fails
Pump runs continuously	Stuck float switch; Leak in discharge line; Pump undersized for flow rate	Inspect/clean float switch; Check for leaks; Verify pump capacity meets demand
Water overflow / Alarm LED on	Pump failure; Clogged discharge line; Safety switch activated	Check pump operation; Clear discharge line; Investigate cause of high water level
Excessive noise/vibration	Debris in pump; Improper mounting; Worn motor bearings	Clean pump; Ensure secure mounting; Contact support for motor issues

SPECIFICATIONS

Feature	Detail
Brand	Diversitech (Asurity)
Model Number	CP-22LPT
Voltage	110 Volts
Power Source	Corded Electric
Maximum Lift	22 feet
Maximum Flow Rate	1.6 Gallons Per Minute
Product Dimensions	12"L x 6.75"W x 6"H
Item Weight	5.41 pounds
Material	Plastic
Color	Red Black
Included Components	Condensate Pump, 20ft clear vinyl tubing, 4ft safety switch wire (pigtail)
Certifications	UL Listed

WARRANTY AND SUPPORT



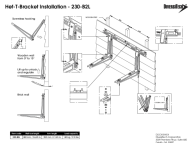
For warranty information or technical support, please contact Diversitech customer service. Keep your purchase receipt for warranty claims.

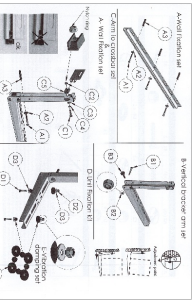
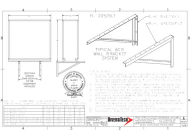
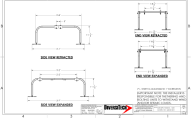
Manufacturer: Diversitech

Website: www.diversitech.com

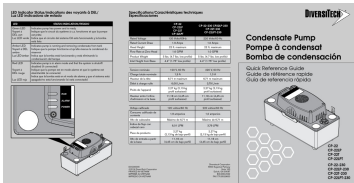
Contact: Refer to the manufacturer's website for current contact information.

Related Documents - CP-22LPT

	<p>DiversiTech Condensate Pump Installation and Operation Guide</p> <p>This guide provides detailed instructions for installing, operating, and maintaining DiversiTech condensate pumps (CP-22 series). It covers safety precautions, specifications, package contents, step-by-step installation, troubleshooting, and warranty information.</p>
	<p>DiversiTech Condensate Pump Installation and Operation Manual</p> <p>Comprehensive guide for installing and operating DiversiTech condensate pumps (CP-22, CP-22LP, CP-22T series). Includes safety instructions, specifications, installation steps, operation details, troubleshooting, and warranty information.</p>
	<p>Hef-T-Bracket Installation Guide - 230-B2L</p> <p>Installation instructions and specifications for the DiversiTech Hef-T-Bracket 230-B2L, a wall bracket for air conditioner condenser units.</p>

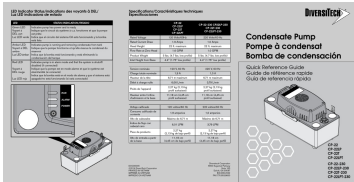
	<p>Diversitech HW-600 Wall Bracket Installation Guide for Mini Split Systems</p> <p>Comprehensive installation guide for the Diversitech HW-600 wall bracket, designed for mounting mini split air conditioner outdoor units. Includes parts list, assembly instructions, and important safety information.</p>
	<p>DiversiTech ACB Series Wall Bracket Systems for A/C Condensing Units</p> <p>Technical specifications and installation guidelines for DiversiTech ACB series wall bracket systems, including models ACB-30, ACB-36, ACB-42, and ACB-48, designed for A/C condensing units.</p>
	<p>Diversitech QSMS1201 Mini Split Stand Technical Specifications and Parts List</p> <p>Technical specifications, dimensions, and a comprehensive parts list for the Diversitech QSMS1201 Mini Split Stand, including retracted and expanded views and assembly details.</p>

Documents - Diversitech – CP-22LPT



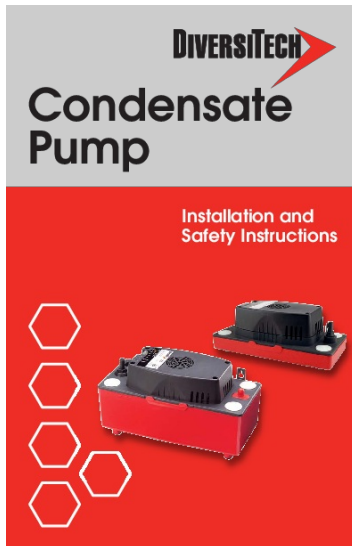
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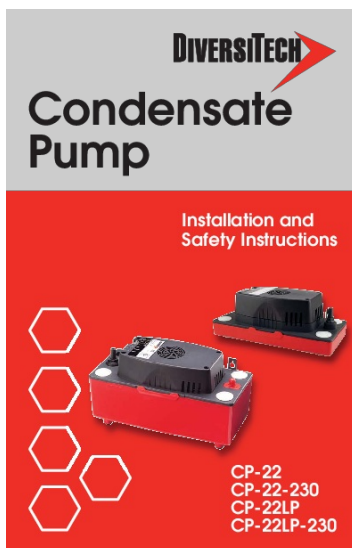


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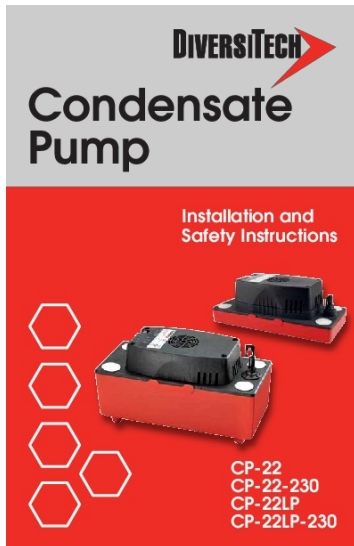


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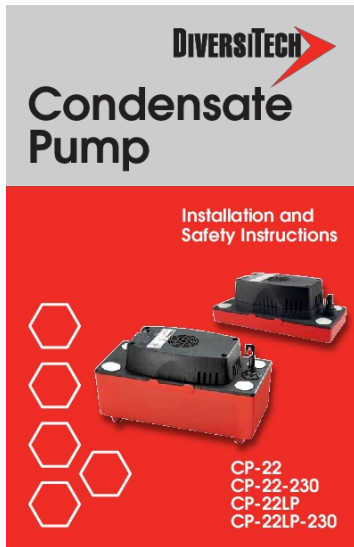


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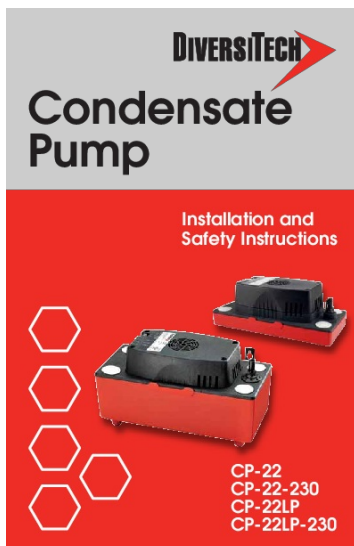


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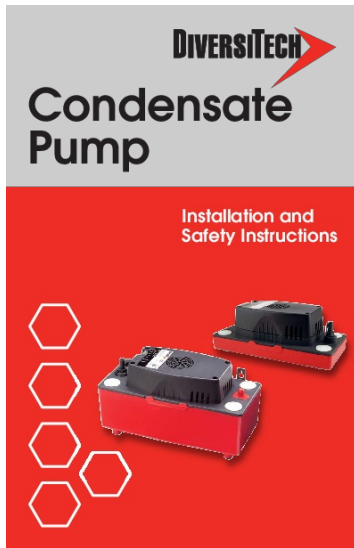


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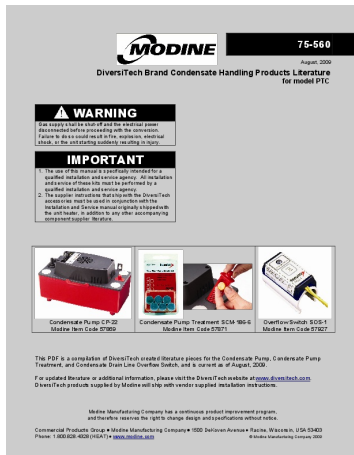
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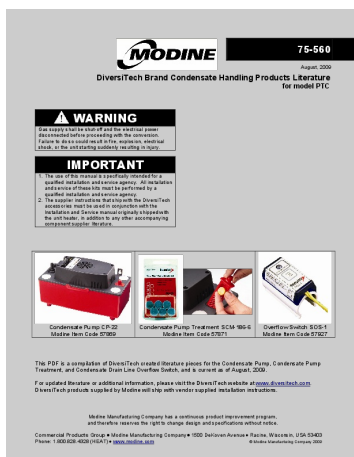
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