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› [Asurity by Diversitech CP-22LPT Low Profile Condensate Pump User Manual](#)

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

## WARRANTY AND SUPPORT

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

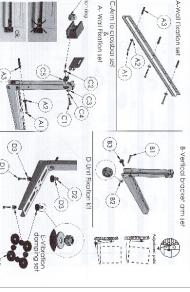
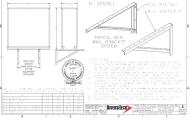
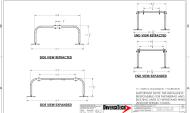
**Manufacturer:** Diversitech

**Website:** [www.diversitech.com](http://www.diversitech.com)

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

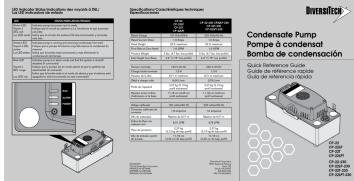
## Related Documents - CP-22LPT

	<p><a href="#"><u>DiversiTech Condensate Pump Installation and Operation Guide</u></a></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><a href="#"><u>DiversiTech Condensate Pump Installation and Operation Manual</u></a></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><a href="#"><u>Hef-T-Bracket Installation Guide - 230-B2L</u></a></p> <p>Installation instructions and specifications for the DiversiTech Hef-T-Bracket 230-B2L, a wall bracket for air conditioner condenser units.</p>

	<p><a href="#">Diversitech HW-600 Wall Bracket Installation Guide for Mini Split Systems</a></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><a href="#">DiversTech ACB Series Wall Bracket Systems for A/C Condensing Units</a></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><a href="#">Diversitech QSMS1201 Mini Split Stand Technical Specifications and Parts List</a></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

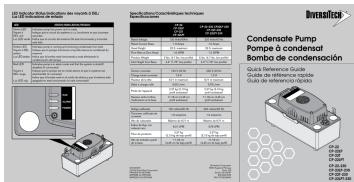
### [\[pdf\] Specifications Guide](#)



Diversitech CP 22LP Quick Ref Guide 22 Reference s3 supplyhouse product files alpinehomeair related  
 LED Indicator Status/indications des voyants del/ Luz LED indicadora de estado LED  
 STATUS/INDICAT ... Draw Head Height Flow Rate at Zero Head Product Weight Inlet  
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### [\[pdf\] Reference Guide Specifications Guide](#)



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## Condensate Pump

Installation and Safety Instructions



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Condensate Pump Installation and Safety Instructions Rated Voltage CP-22 CP-22LP

CP-22T **CP-22LPT** 120 Volts / 60 Hz CP-22-230 CP-22LP-230 CP-22T-230 **CP-**

**22LPT-230** 220 Volts / 60 Hz 208-230 Rated Current Draw 1.9 Amps 1.0 Amps Input

Type USA 3-prong plug NEMA 6-15 plug Head Height 22 ft. ...

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## Condensate Pump

Installation and Safety Instructions



[\[pdf\]](#) User Manual Instructions Dimension Guide Accessories

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Condensate Pump Installation and Safety Instructions CP-22 CP-22-230 CP-22LP

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## Condensate Pump

Installation and Safety Instructions



CP-22  
CP-22-230  
CP-22LP  
CP-22LP-230

[\[pdf\]](#) User Manual Instructions Dimension Guide Accessories

page 1 Condensate Pump National Trade Supply Home Jackson Systems Safety Instructions CP 22 230

22LP Rated Voltage Current Draw Input Type Head Height Flow Rate at Zero Temperature Rating

Product Dimensions LxWxH Weight Inlet from Base Included Accessories Wiring Color References 120

Volts 60 Hz 9 Amps Installation and 30 apr 2020 — CP22Instructions Manual ntsupply files products

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Condensate Pump Installation and Safety Instructions CP-22 CP-22-230 CP-22LP CP-22LP-230 CP-22 CP-22LP CP-22 CP-22LP CP-22T **CP-22LPT** CP-22-230 CP-22LP-230 CP-22T-230 **CP-22LPT-230** Rated Voltage 120 Volts / 60 Hz 220 Volts / 60 Hz 208-230 Rated Current Draw 1.9 Amps 1.0 Amps Input Type USA 3-prong plug...

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## Condensate Pump

Installation and Safety Instructions



CP-22  
CP-22-230  
CP-22LP  
CP-22LP-230

[\[pdf\]](#) User Manual Instructions Dimension Guide Accessories

page 1 Installation ManualDiversitech CP 22 120V Air Conditioning Condensate Removal PumpCP

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## Condensate Pump

Installation and Safety Instructions



CP-22  
CP-22-230  
CP-22LP  
CP-22LP-230

[\[pdf\]](#) User Manual Instructions Dimension Guide Accessories

page 1 CP 22 Installation Manual Condensate Pump DISCONNECT POWER BEFORE SERVICING

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# Condensate Pump

## Installation and Safety Instructions



### [pdf] Instructions Dimension Guide Accessories

page 1 ai sbradford Condensate Pump Hercules Industries Thank you for the purchase of this DiversiTech condensate pump This is designed to automatically remove water that collects from appliances such as air conditioners high efficiency furnaces compump spec herculesindustries sites default files pdgs docs |||

Condensate Pump Installation and Safety Instructions Rated Voltage CP-22 CP-22LP CP-22T **CP-22LPT** 120 Volts / 60 Hz CP-22-230 CP-22LP-230 CP-22T-230 **CP-22LPT-230** 220 Volts / 60 Hz 208-230 Rated Current Draw 1.9 Amps 1.0 Amps Input Type USA 3-prong plug NEMA 6-15 plug Head Height 22 ft. ...

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75-560

DiversiTech Brand Condensate Handling Products Literature for model PTC

#### ⚠️ WARNING

Do not use this product until the electrical power is disconnected before proceeding with the connection. Failure to do so may result in a short circuit, fire, or electrical shock, in the unlikely event that a short circuit occurs.

#### IMPORTANT



The PDF is a compilation of DiversiTech created literature pieces for the Condensate Pump, Condensate Pump Treatment, and Condensate Drain Line Overflow Switch, and is current as of August, 2009.

For updated literature or additional information, please visit the DiversiTech website at [www.diversitech.com](http://www.diversitech.com).

DiversiTech products supplied by Modine will ship with vendor supplied installation instructions.

Modine Manufacturing Company has a continuous product improvement program, and therefore reserves the right to change design and specifications without notice.

Commercial Products Group • Modine Manufacturing Company • 1000 Delavan Avenue • Racine, WI 53420 • Modine Manufacturing Company, 2009

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page 1 ai sbradford Condensate Pump Info Tarantin Industries This is a compilation of DiversiTech created literature pieces for the Treatment and Drain Line Overflow tarantin images resources marketing modine |||

75-560 August, 2009 DiversiTech Brand Condensate Handling Products Literature for model PTC WARNING ... om 39 Condensate Pump Installation and Safety Instructions Rated Voltage CP-22 CP-22LP CP-22T **CP-22LPT** 120 Volts / 60 Hz CP-22-230 CP-22LP-230 CP-22T-230 **CP-22LPT-230** 220 Volts / 60 Hz 208-230... lang:en score:25 filesize: 2.32 M page\_count: 15 document date: 2009-08-04



75-560

DiversiTech Brand Condensate Handling Products Literature for model PTC

#### ⚠️ WARNING

Do not use this product until the electrical power is disconnected before proceeding with the connection. Failure to do so may result in a short circuit, fire, or electrical shock, in the unlikely event that a short circuit occurs.

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2023 Technical Data Sheet

**Product**  
Condensate Pumps  
CP-LP Series Low Profile Condensate Pumps

**Appliance**  
Condensate remove for HVAC/R equipment

**Purpose**  
The pump is designed to automatically evacuate condensate or water from HVAC equipment up to 22' vertically once the float switch is activated.

**Advantages**  
The CP-22LP series pump are great for many applications. They have a low profile design, which is great for space savings, and come with innovative features such as: vibration damping feet and motor mounts, a float switch with a built-in self-cleaning float switch for the user's peace of mind, LED indicators, float switch and switch-style check valve, and a built-in 3-prong molded plug. The built-in strain relief provided allowing the installer flexibility to connect an on/off handle switch.

**Dimensions**  
• LED Status Indicator Lights (Pwr, Run, Alm)  
• Vibration Dampening Feet  
• Each pump undergoes 100% inspection  
• UL Listed  
• Metal Hang Tabs, Four Feet  
• Built-in 3-prong molded plug (120VAC)  
• Motor thermal protection  
• UL Listed  
• CSA Approved  
• Standard for water pumps

**Maximum Lift Height**  
• 22'

**Flow Rate @ 0' Zoro Head**  
• 1.6 gallons per minute

**Tank Capacity**  
• 3/8 gallon

**Dimensions**  
• 11.9" x 5.9" x 4.4"

**Inlet Height from Base**  
• 1.75" low profile

**Maximum Condensate Temperatures**  
• Maximum inlet temp 146°F - Not suitable for contact with steam or gases that exceed 146°F

**Rated Voltage**  
• 120VAC / 230VAC / 60Hz

**Rated Current Draw**  
• 0.05 Amps (120VAC)  
• 0.1 Amps (230VAC)

**Input Type**  
• NEMA 5-15 (230VAC)  
• NEMA 5-15 (120VAC)

**Wiring Color References**  
• 120V  
• Black - Line  
• White - Neutral  
• Green - Ground  
• JAT installations must conform to local building codes

**Included Accessories**  
• Instruction Booklet  
• Metal Hang Tab  
• 4 feet  
• Polyethylene Inlet Covers (2)  
• 20ft of tubing for CP-22LP

CONDENSATE MANAGEMENT

**DiversiTech**

## [pdf] Instructions Datasheet

WILLIAM HARRIS Data Sheet Edmondson Supply DiversiTech Asurity® CP 22LP Condensate Pump  
22 ft lift 115 volts Series TDS 1 s3 us west 2 amazonaws catsby 898 |||

2023 Technical Data Sheet Product Condensate Pumps CP-LP Series Low Profile Condensate Pumps Appli ... s 4 Remote Shutoff Leads w/insulated terminals Polyethylene inlet covers 3 20ft of tubing for **CP-22LPT** CONDENSATE MANAGEMENT 2023 Technical Data Sheet CATALOG NO. CP-22LP **CP-22LPT** CP-22LP-23...

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## [pdf] Catalog

Download the Diversitech 2022 Heating Season Catalog News Events DiversiTech buildingcontrolsgroup pub |||

HEATING SEASON 2022 CATALOG TABLE OF CONTENTS Equipment Mounting Quick-Sling Mini-Split Stands 6 ... IFT 20 Clear Vinyl 3/8 Tubing only included with IQP-120T Low Profile Tubing only included with **CP-22LPT** Condensate Pump Specialty Standard Applications FEATURES: Reduced Height for Restricted S...  
lang:en score:14 filesize: 26.51 M page\_count: 128 document date: 2022-07-28