

Eujgoov PC-100L

Eujgoov PC-100L Automatic Condensate Drain Pump User Manual

Model: PC-100L

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Eujgoov PC-100L Automatic Condensate Drain Pump. Please read these instructions thoroughly before installation and use, and retain them for future reference.

The PC-100L is designed to automatically remove condensate water from air conditioning units, furnaces, and other HVAC systems, preventing overflow and potential water damage. It features a 0.5L water tank, a 5W motor for quiet operation, and a high-level alert drainage system for enhanced safety.

2. SAFETY INSTRUCTIONS

- Always disconnect power to the air conditioning unit and the pump before performing any installation, maintenance, or troubleshooting.
- Ensure the pump is installed by a qualified technician in accordance with local electrical and plumbing codes.
- Do not operate the pump with a damaged power cord or plug.
- Do not immerse the pump in water or use it in areas where it may be submerged.
- This pump is designed for condensate water only. Do not use it for flammable liquids, corrosive chemicals, or other non-condensate fluids.
- Keep children and unauthorized personnel away from the pump during operation.
- Ensure proper ventilation around the pump to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Eujgoov PC-100L Condensate Pump
- 1 x Drain Hose
- 2 x Hose Clamps (Accessories)
- 1 x User Manual

Figure 3.1: Included accessories and key components of the PC-100L pump.

4. PRODUCT SPECIFICATIONS

Specification	Value
Model	PC-100L
Voltage	100-230V 50-60Hz
Maximum Lift (H-Max)	2 meters / 6.56 feet
Water Storage Capacity	0.5 Liters
Maximum Flow Rate	100 Liters/hour
Pump Motor Power	5W
Applicable AC Unit Capacity	Up to 15kW (1P-5P)
Noise Level	As low as 22dB
Inlet Diameter	Approx. 25mm / 0.98in
Outlet Diameter	Approx. 8mm / 0.31in
Product Dimensions	8.66 x 4.33 x 3.93 inches
Material	Excellent PP Material

Figure 4.1: Detailed product information and specifications.

5. PRODUCT FEATURES

- **Efficient Drainage:** Equipped with a 0.5L water tank and a maximum flow rate of 100L/H for effective condensate removal.
- **Automatic Operation:** Features an automatic start and stop function. The pump activates when the water level reaches the lower probe and drains automatically when the tank is full.
- **Quiet Performance:** The 5W motor ensures a low operating noise level, as quiet as 22dB, minimizing disturbance.
- **High-Level Alert:** Includes a water level sensor with two lines that can be connected to the HVAC unit. If a high water level is detected, the switch triggers an automatic shutdown of the AC unit to prevent

overflow.

- **Durable Construction:** Made from excellent PP material, ensuring a non-toxic and odorless product.
- **Broad Compatibility:** Suitable for various commercial ice makers and HVAC units, including countertop, understage, freestanding, or split systems.



Figure 5.1: Key features of the condensate pump.



Figure 5.2: The PC-100L pump with its integrated water storage tank.

6. INSTALLATION AND SETUP

Proper installation is crucial for the optimal performance and longevity of your condensate pump. Refer to the diagrams below for guidance.

6.1 Mounting the Pump

The pump should be installed in a location that allows for easy access for maintenance and is close to the condensate drain pan of the HVAC unit. Ensure the pump is level to allow for proper water sensing and drainage.



Figure 6.1: Outline dimensions and typical installation diagram.

6.2 Connecting the Inlet and Outlet Hoses

1. Connect the condensate drain line from your HVAC unit to the pump's inlet, which has an approximate diameter of 25mm (0.98in).
2. Attach the provided drain hose to the pump's outlet, which has an approximate diameter of 8mm (0.31in). Secure the hose with the provided clamps to prevent leaks.
3. Route the drain hose to a suitable drainage point, ensuring a continuous downward slope to prevent backflow. The maximum lift height for the pump is 2 meters (6.56 feet).

6.3 Electrical Connection

1. Connect the pump's power cord to a suitable electrical outlet (100-230V 50-60Hz).
2. For enhanced safety, connect the two safety switch lines from the condensate pump to your HVAC unit. This connection allows the pump to automatically shut down the AC unit if a high water level is detected, preventing overflow. Consult your HVAC unit's manual for specific wiring instructions for a high-level safety switch.



Figure 6.2: Example of the PC-100L pump installed with an ice maker.

7. OPERATING INSTRUCTIONS

The Eujgoov PC-100L condensate pump operates automatically once properly installed and powered.

1. Ensure the pump is connected to power and the HVAC unit is operating.
2. As condensate water collects in the pump's reservoir, the water level will rise.

3. When the water level reaches the lower probe, the pump will automatically activate and begin discharging the water through the outlet hose.
4. The pump will continue to operate until the water level drops below the sensor, at which point it will automatically shut off.
5. In the event of a malfunction or blockage causing the water level to rise excessively, the high-level sensor will trigger, and if connected, will shut down the associated HVAC unit to prevent overflow.

8. MAINTENANCE

Regular maintenance ensures the efficient and reliable operation of your condensate pump.

- **Monthly Inspection:** Check the pump, inlet, and outlet hoses for any signs of leaks, blockages, or damage.
- **Cleaning the Reservoir:** Periodically clean the pump's reservoir to prevent the buildup of sludge, algae, or debris. Disconnect power before cleaning. Remove the cover and carefully clean the inside of the tank and the float switch mechanism with mild soap and water. Rinse thoroughly.
- **Check Hoses:** Ensure the inlet and outlet hoses are free from kinks and obstructions.
- **Test Operation:** After cleaning or maintenance, pour a small amount of water into the reservoir to verify that the pump activates and drains correctly.

9. TROUBLESHOOTING

If you encounter issues with your condensate pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not turn on	No power; Float switch stuck; Motor failure	Check power connection; Clean reservoir and free float; Contact support if motor fails.
Pump runs continuously	Float switch stuck; Inlet/outlet blockage; Air leak in suction line	Clean reservoir and free float; Clear blockages; Check hose connections.
Water overflow from reservoir	Pump not operating; Outlet hose blocked; Pump capacity exceeded	Refer to 'Pump does not turn on'; Clear outlet hose; Ensure pump is suitable for AC unit size.
Excessive noise during operation	Debris in pump; Pump not level; Worn motor bearings	Clean pump interior; Ensure pump is on a level surface; Contact support for motor issues.

10. APPLICATION SCENARIOS

The Eujgoov PC-100L condensate pump is versatile and can be used in various settings where condensate drainage is required.

- **Residential:** Ideal for home air conditioning units, dehumidifiers, and high-efficiency furnaces.
- **Commercial:** Suitable for offices, retail stores, and small commercial spaces with HVAC systems.
- **Specialized Equipment:** Can be used with commercial ice makers and other equipment that produces condensate.

Figure 10.1: Examples of environments where the PC-100L pump can be utilized.

11. WARRANTY AND SUPPORT

Eujgoov provides a limited warranty for this product against defects in materials and workmanship under normal use. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact Eujgoov customer service through the retailer where the product was purchased or visit the official Eujgoov website.

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