

Drphiru 1

Drphiru Condensate Pump Instruction Manual

Model: 1

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Drphiru Condensate Pump. Please read this manual thoroughly before using the product and retain it for future reference. This pump is designed for removing condensate from air conditioning units, HVAC systems, and commercial ice makers.

2. SAFETY INSTRUCTIONS

- Ensure the power supply matches the pump's specifications (110V).
- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- Do not operate the pump with a damaged power cord or plug.
- Do not immerse the pump in water. It is designed for condensate removal, not submersible use.
- Keep children and unauthorized personnel away from the operating unit.
- Install the pump on a stable, level surface or securely mount it to a wall.
- Ensure all hose connections are secure and leak-free to prevent water damage.
- The pump features a thermal overload protected motor. If the motor overheats, it will automatically shut off and restart once cooled.

3. PRODUCT OVERVIEW & COMPONENTS

The Drphiru Condensate Pump is a compact and efficient solution for automatic condensate removal. It features a quiet operation and an automatic high-level safety switch.



Figure 3.1: Drphiru Condensate Pump and included accessories, including a flexible hose and hose clamps.

Key Features:

- **Automatic Operation:** The pump automatically starts when the water level reaches approximately 1 inch and stops when it drops to 0.4 inches.
- **High Water Lift:** Capable of lifting water up to 6.6 feet (2 meters).
- **Quiet Performance:** Operates at an average volume level of 22 dB.
- **Safety Features:** Equipped with a reliable high-level safety switch and a thermal overload protected motor.
- **Durable Construction:** Features a stainless steel motor shaft.

RELIABLE HI-LEVEL SAFETY SWITCH

When the sensor detects high water levels, it will auto shut off the appliance to prevent overflow.



Figure 3.2: Diagram highlighting the reliable high-level safety switch, 1.0-inch water inlet, 0.4-inch water outlet, and wall mounting points.

4. SPECIFICATIONS

Parameter	Value
Material	ABS Plastic
Water Tank Capacity	0.63 Qt (0.6 L)
Water Displacement (Flow Rate)	105.67 Qt/H (100 L/H)
Max. Water Lift	6.6 ft (2 m)
Power	5 W
Max. Water Temperature	131°F (55°C)
Working Volume	22 dB

Water Inlet Diameter	1.0 inch
Water Outlet Diameter	0.4 inch
Power Cord Length	3.3 ft
Product Dimensions (L x W x H)	7.1 x 3.9 x 2.6 inches
Product Weight	1.5 lb

AUTO & QUICK CONDENSATE REMOVAL

Self-draining triggered when it is full of water

Capacity:



0.63 Qt/ 600 mL

Water Lift:



6.6 ft / 2 m

Water Discharge:



105.67 Qt/100 L per Hour



Figure 4.1: Visual representation of the pump's capacity (0.63 Qt), water lift (6.6 ft), and water discharge rate (105.67 Qt/H).

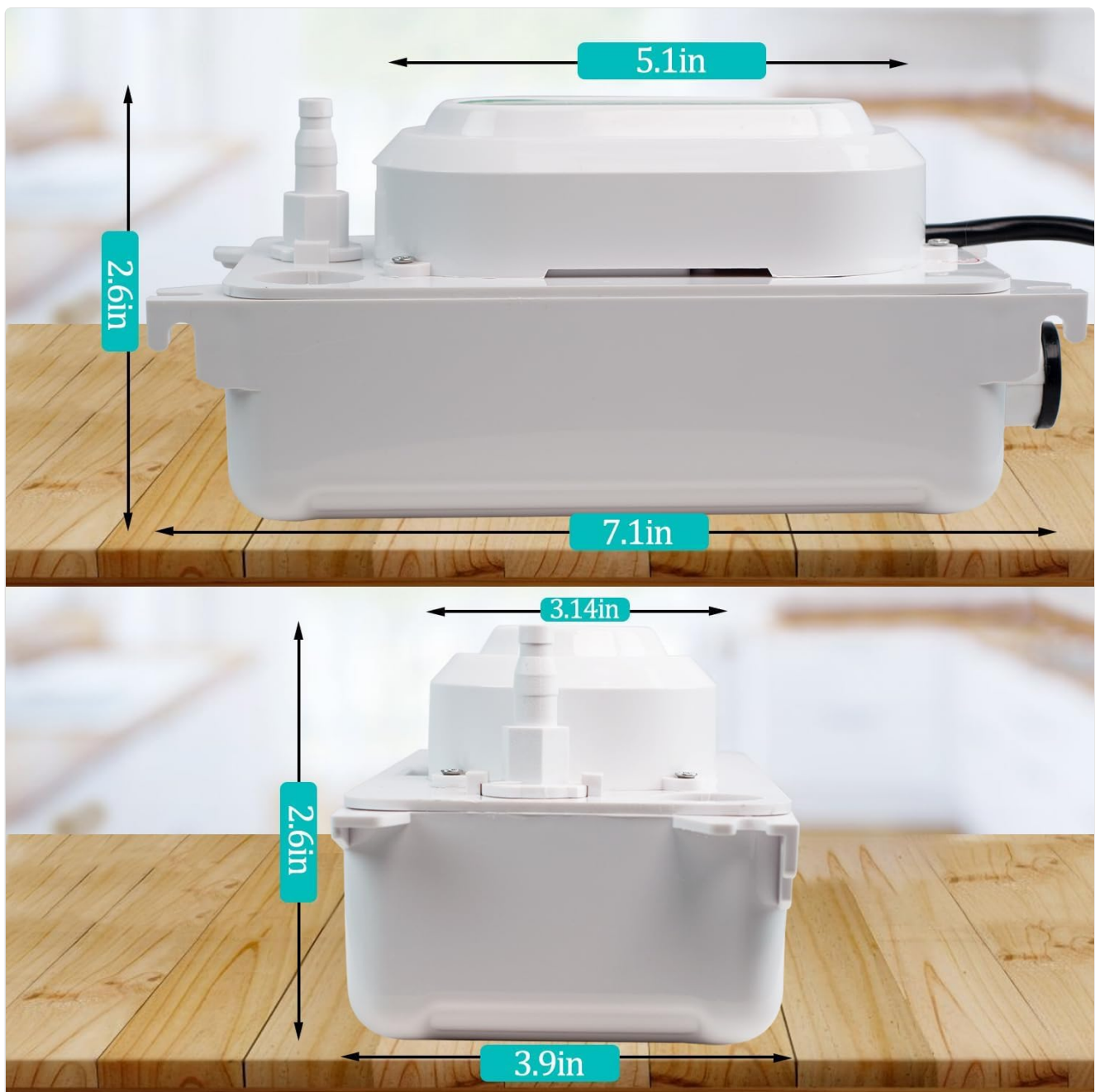


Figure 4.2: Detailed dimensions of the condensate pump, showing length, width, and height from different perspectives.

5. INSTALLATION GUIDE (SETUP)

1. **Unpack and Inspect:** Carefully remove the pump and all accessories from the packaging. Inspect for any damage.
2. **Placement:** Position the condensate pump on a stable, level surface near the condensate source (e.g., AC unit, ice maker). Alternatively, the pump can be wall-mounted using appropriate fasteners (not included) through the designated mounting points.
3. **Connect Inlet Hose:** Connect the condensate drain line from your appliance to the 1.0-inch water inlet on the pump. Ensure a tight, leak-proof connection.
4. **Connect Outlet Hose:** Attach a suitable discharge hose (0.4-inch diameter) to the water outlet nozzle. Route the discharge hose to a suitable drain point, ensuring it has a continuous downward slope or is routed to a higher drain point within the pump's 6.6 ft lift capability. Secure the hose with the provided clamps.
5. **Power Connection:** Plug the 3.3 ft power cord into a standard 110V electrical outlet.
6. **Test Operation:** Once installed, allow the appliance to produce condensate to verify the pump's automatic

operation and check for any leaks.

6. OPERATING INSTRUCTIONS

The Drphiru Condensate Pump operates automatically. No manual intervention is required during normal operation.

- When condensate water in the pump's reservoir reaches approximately 1 inch, the pump will automatically activate.
- The pump will continue to run until the water level drops to approximately 0.4 inches, then it will automatically shut off.
- The pump is designed for quiet operation, with an average noise level of 22 dB.

WIDE RANGE OF USES

A perfect partner for your commercial ice makers



Figure 6.1: Chart illustrating the low noise level of the Drphiru Condensate Pump (22 dB) compared to common sounds.

RUNNING WITH NO NOISE

Drain quietly without disturbing your daily life



10-20 dB

Sound of
blown leaves
..

20-40 dB

Our Product 22 dB
.l

40-60 dB

Conversation
.ll

60-80 dB

Loud Noises
.lll

Figure 6.2: Examples of the condensate pump's application with different commercial ice maker models.

7. MAINTENANCE

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

1. **Disconnect Power:** Always unplug the pump from the power outlet before any maintenance.
2. **Clean Reservoir:** Periodically inspect the pump's reservoir for sludge, mold, or debris. Remove the cover (if applicable and accessible) and clean the interior with a mild detergent and water. Rinse thoroughly.
3. **Check Inlet/Outlet Hoses:** Ensure the inlet and outlet hoses are free from kinks, blockages, or leaks. Clean any buildup in the hoses if necessary.
4. **Inspect Float Switch:** Verify that the float switch moves freely and is not obstructed by debris. A stuck float switch can prevent the pump from activating or deactivating correctly.
5. **Reassemble and Test:** After cleaning, reassemble any removed parts, reconnect the hoses, and plug the pump back into power. Test its operation to ensure it functions correctly.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not turn on	No power; Float switch stuck; Thermal overload activated	Check power connection; Clean or free the float switch; Allow pump to cool down and reset.
Pump runs continuously	Float switch stuck in 'on' position; Leak in discharge line; Pump not able to clear water (e.g., clogged line, excessive lift)	Clean or free the float switch; Inspect discharge line for leaks; Check for clogs in discharge line or ensure lift is within specifications.
Water leaks from pump or connections	Loose hose connections; Damaged hoses; Cracked pump housing	Tighten hose clamps; Replace damaged hoses; If housing is cracked, pump may need replacement.
Pump is noisy	Debris in pump; Pump not level; Air in system	Clean pump reservoir; Ensure pump is on a stable, level surface; Allow air to purge from the system.

9. WARRANTY & SUPPORT

Information regarding product warranty and customer support was not provided in the available product data. Please refer to the product packaging or contact the retailer for details on warranty coverage and support options.

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