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LUBAIR DY117P

LUBAIR DY117P 113 Pint Crawl Space Dehumidifier with Pump User Manual

Model: DY117P

Important Safety Instructions

Please read all instructions carefully before operating the dehumidifier. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always connect the unit to a properly grounded electrical outlet.
- Do not operate the unit with a damaged power cord or plug.
- Do not block the air intake or exhaust vents.
- Ensure the unit is placed on a stable, level surface.
- Do not immerse the unit in water or allow water to enter electrical components.
- Unplug the unit before cleaning or performing any maintenance.
- Keep children and pets away from the operating unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Product Overview

The LUBAIR DY117P is a high-capacity dehumidifier designed for effective moisture removal in various environments, including crawl spaces, basements, and commercial spaces. It features a built-in pump for versatile drainage options and an automatic defrost function for efficient operation in cooler conditions.

Key Features

- **High Capacity:** Removes up to 53 pints/day (AHAM) or 113 pints/day (saturated conditions) for spaces up to 1,500 sq ft.
- **Dual Drainage Options:** Supports both gravity drain and built-in condensate pump with a 19.6 ft lifting distance.
- **Auto Defrost:** Automatically initiates defrost cycles when frost is detected on coils, operating efficiently between 41-104°F.
- **User-Friendly Controls:** Smart touch screen with a 33-inch extension cord for remote placement and a built-in

humidity regulator.

- **Compact Design:** Dimensions of 19.3″D x 12.4″W x 14.15″H, suitable for crawl spaces, with 4 leveling feet and a portable rigid handle.
- **Power Outage Memory:** Resumes operation with previous settings after a power interruption.



Figure 1: Front view of the LUBAIR DY117P Dehumidifier, showcasing its compact design and control panel.

Internal Components and Technology

- **Efficient Compressor:** Utilizes an internal threaded copper pipe for faster heat exchange.
- **Durable Heat Exchangers:** Aluminum grille with titanium-plated hydrophilic film for enhanced condensation and corrosion resistance.
- **High-Speed Fan:** Snail-shaped wind path design improves air circulation.
- **Sensitive Sensor:** Provides real-time humidity feedback for precise control.



Figure 2: Illustration of the dehumidifier's internal components, highlighting the efficient compressor, durable heat exchangers, high-speed fan, and sensitive humidity sensor.

Setup and Installation

Unpacking

Carefully remove the dehumidifier from its packaging. Inspect the unit for any shipping damage. Retain the packaging materials for future transport or storage.

Placement

Place the dehumidifier on a firm, level surface. For crawl spaces, the unit is equipped with 4 leveling feet for sturdy installation. It can also be hung using a joist hanging kit (not included) or placed directly on a level surface in basements or other large spaces. Ensure there is adequate clearance around the air intake and exhaust vents for optimal airflow.



Figure 3: The dehumidifier positioned in a crawl space, demonstrating the use of leveling feet for stable installation.

Drainage Options

The LUBAIR DY117P offers two drainage methods: gravity drainage and pump drainage.

Gravity Drainage

For gravity drainage, connect the provided PVC hose directly to the gravity drainage outlet on the unit. Ensure the hose is sloped downwards to a floor drain or suitable receptacle, allowing water to flow out by gravity. Do not use a garden hose with internal threads as an extension hose for gravity drainage.

Pump Drainage

The unit features a built-in condensate pump, eliminating the need for an external pump. To use pump drainage, connect the PVC hose to the gravity drainage outlet and the rubber hose to the pump drainage outlet. Position the PVC hose outlet higher than the gravity drainage outlet. The internal water level sensor will detect rising water and activate the pump to discharge water up to 19.6 feet vertically or horizontally to a desired drainage location.

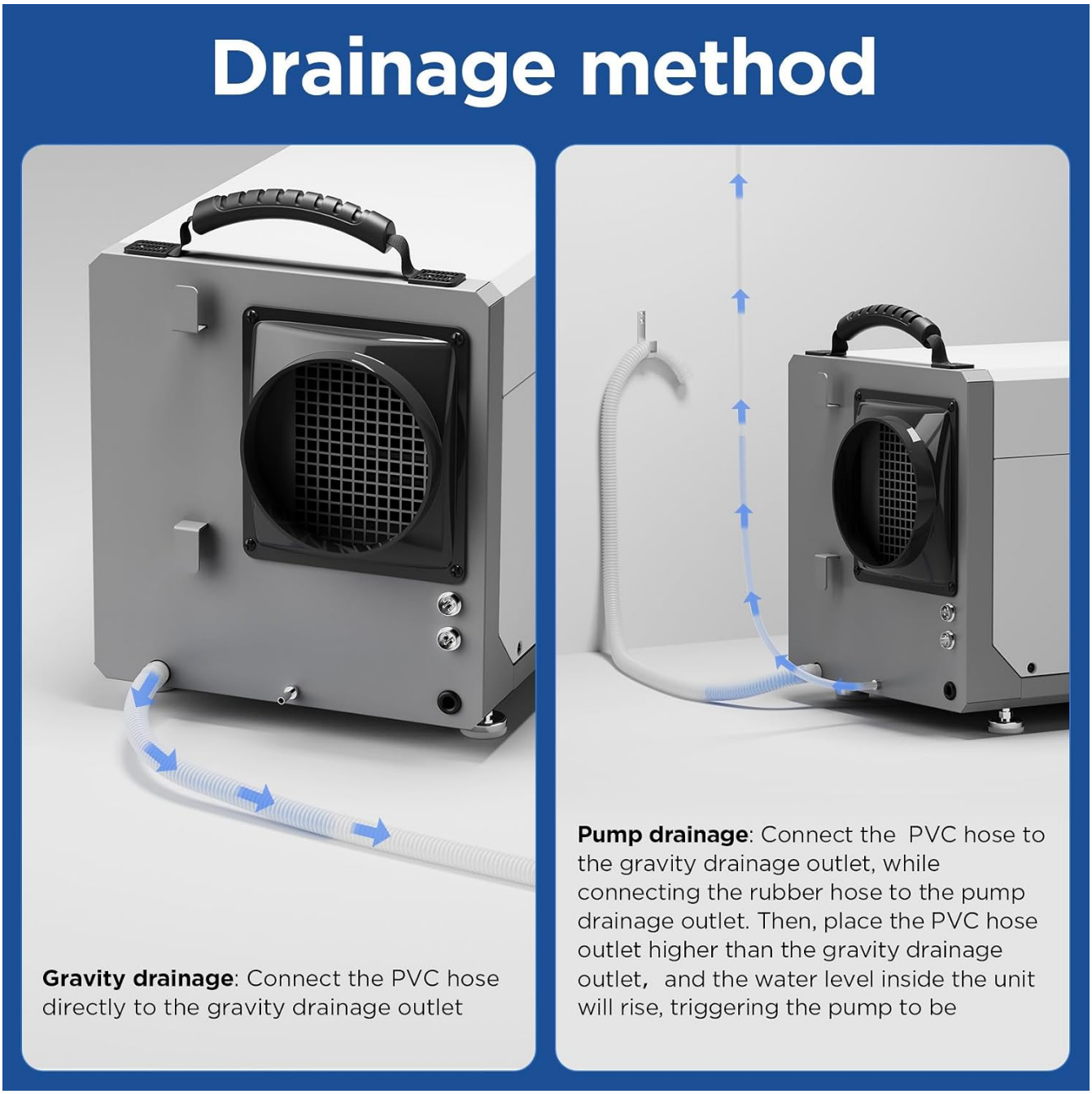


Figure 4: Visual guide demonstrating the connection points for both gravity drainage and pump drainage methods.



Figure 5: The dehumidifier set up for pump drainage, showing the hose extending upwards to a window for discharge.

Operating Instructions

Control Panel

The dehumidifier features a smart touch screen control panel for easy operation. An included 33-inch extension cord allows for flexible placement of the control panel.

Initial Operation

1. Plug the power cord into a grounded electrical outlet.
2. Press the **POWER** button to turn on the unit.
3. The display will show the current humidity level.

Humidity Settings

Use the **UP** and **DOWN** buttons to set your desired humidity level. The unit will operate to maintain the set humidity,

ranging from 10% to 98% (±1%).

Timer Function

The 24-hour timer allows you to set specific ON/OFF times for the dehumidifier.

Auto Defrost Function

The dehumidifier is equipped with an automatic defrost system. If frost builds up on the evaporator coils, the unit will temporarily stop the compressor and run the fan to melt the frost. Once defrosting is complete, the dehumidifier will automatically resume normal operation. This ensures efficient performance in temperatures between 41℉ and 104℉.



Figure 6: Illustration of the auto defrost cycle, detailing the process from frost detection to normal operation resumption.

Remote Control (Optional)

An optional remote control is available for separate purchase, allowing convenient adjustment of settings from a distance. It connects via a 30 ft remote control signal cable.



Figure 7: The dehumidifier set up with its optional remote control, which can be placed for easy access.

Maintenance

Filter Cleaning

The dehumidifier is equipped with a removable filter to protect internal components from dust and enhance performance. Regularly inspect and clean the filter to ensure optimal operation.

1. Unplug the dehumidifier from the power outlet.
2. Locate and remove the air filter.
3. Clean the filter using a vacuum cleaner or wash it with warm, soapy water.
4. Rinse the filter thoroughly and allow it to air dry completely before reinserting.
5. Reinstall the dry filter and plug the unit back in.

Recommended cleaning frequency: Every 2-4 weeks, depending on usage and air quality.

General Cleaning

Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no water enters the control panel or other electrical parts.

Troubleshooting

Before contacting customer support, please refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply	Check if the power cord is securely plugged in. Verify the outlet has power.
Dehumidifier not collecting water	Humidity setting too high; Room temperature too low; Air filter clogged	Lower the humidity setting. Ensure room temperature is above 41°F. Clean the air filter.
Unit runs continuously but humidity does not decrease	Room size too large; Doors/windows open; Air filter clogged	Ensure the unit is appropriately sized for the space. Close all doors and windows. Clean the air filter.
Unusual noise during operation	Unit not level; Obstruction in fan; Loose parts	Ensure the unit is on a level surface. Check for any foreign objects near the fan. Contact support if noise persists.
Water leakage	Drain hose improperly connected or blocked; Unit not level	Check all drain hose connections for tightness and blockages. Ensure the unit is level.

Specifications

Detailed technical specifications for the LUBAIR DY117P Dehumidifier.

Specification	Value
Model Name	DY117P
Power Source	120V-60Hz
Rated Power	680W
Rated Current	5.9A
Moisture Removal (80°F, 60%RH)	53 Pints per Day
Moisture Removal (95°F, 90%RH)	113 Pints per Day (14.12 gallons)
Floor Area Coverage	Up to 1500 Square Feet
Product Dimensions (D x W x H)	19.3"D x 12.4"W x 14.15"H
Airflow Rate	200 CFM
Refrigerant	R32

Specification	Value
COP	1.85L/kWh
Operation Mode	Continuous
Humidity Setting Range	10%-98% (±1%)
Working Temperature Range	41℉-104℉
Built-in Pump	Yes (19.6 ft lifting distance)
Timer	1-24 Hours
Auto Defrost	Yes

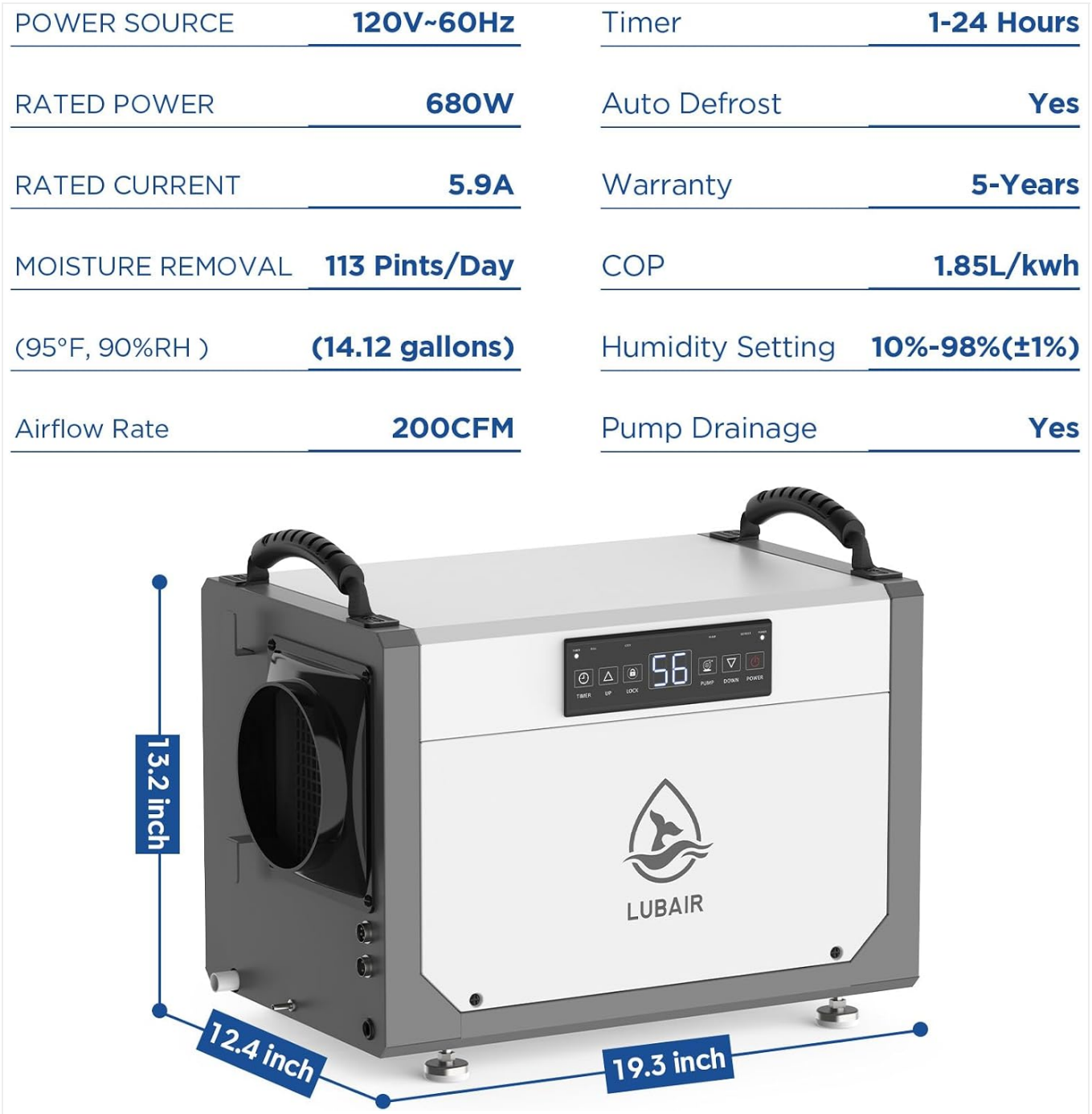


Figure 8: A summary of the dehumidifier's technical specifications and physical dimensions.

Warranty and Support

Warranty Policy

LUBAIR provides a limited warranty for the DY117P dehumidifier as detailed below. The warranty period begins from the day of delivery.

Coverage	Time Limits	Description	Solutions
Refrigeration System	5 Years	Compressor, Condenser, and Evaporator (Excluding labor and refrigerant)	Contact us to obtain a new electrical component or obtain a new unit. Paid services beyond the time limit.
Electronic Components	3 Years	Display screen, Mainboard, Signal cable, etc. (Excluding labor)	Contact us to obtain new electronic components. Paid services beyond the time limit.
Consumable Accessories	1 Year	Drain hose, Filter, Handle, Screws, etc. (Excluding labor)	Contact us to obtain new consumable accessories. Paid services beyond the time limit.
Overall Units	1 Year	Functional failure, defect, or inferior workmanship as specified in national laws. (Excluding labor)	Contact us to get old for new service.
Overall Units	30 Days	Nonfunctional problem	Artificial damage or loss of products or components do not comply with the 30 day return policy.

POLICY OF WARRANTY SERVICES

	Coverage	Time Limits	Description	Stat Date	Solutions
WARRANTY	Refrigeration System	5 Years	Refrigeration System ONLY(Compressor, Condenser,and evaporator) Excluding labor and refrigerant.	From the next day of delivery	Contact us to obtain a new electrical component or obtain a new unit.Provide paid services beyond the time limit.
	Electronic components	3 Years	Display screen,Mainboard and Signal cable, ect.Excluding labor.		Contact us to obtain a new electronic components. Provide paid services beyond the time limit.
	Consumable Accessories	1 Years	Drain hose, Filter, Handle, Screws, ect.Excluding labor.		Contact us to obtain a new consumable accessories. Provide paid services beyond the time limit.
	Overall Units	1 Years	Functional failure,defect, or inferior workmansip as specified innational laws.Excluding labor.		Contact us to get old for new service.
	Overall Units	30 Days	Nonfunctional problem		Artificial damage or loss of products or components do not comply with the 30 day return policy.

If you have any questions, please contact us and we will reply to you quickly within 24 hours.

Figure 9: Detailed policy for warranty services, outlining coverage and time limits.

Customer Support

For any requirements or issues, please contact LUBAIR customer support. We are committed to providing prompt assistance within 12 hours.

Please refer to your product packaging or the retailer's website for specific contact details.

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