De'Longhi PACN270GN

De'Longhi PACN270GN 11500 BTU 3-in-1 Portable Air Conditioner User Manual

Model: PACN270GN

Introduction

This manual provides detailed instructions for the safe and efficient operation of your De'Longhi PACN270GN Portable Air Conditioner. This 3-in-1 unit offers cooling, dehumidifying, and fan functions, designed for rooms up to 400 square feet. Please read this manual thoroughly before use and retain it for future reference.





Image: Front view of the De'Longhi PACN270GN Portable Air Conditioner in white.

Package Contents

Verify that all components are present in the packaging:

- Portable air conditioner unit
- Exhaust hose
- Connectors for exhaust hose
- Window kit
- Remote control

Product Features

The De'Longhi PACN270GN offers multiple features for enhanced comfort:

- **Cooling Power:** 11500 BTU (ASHRAE) / 6700 BTU (DOE) for rooms up to 400 sq. ft.
- **3-in-1 Functionality:** Operates as an air conditioner, dehumidifier, and fan.
- **Energy Efficiency:** Designed to cool specific rooms, allowing for higher household thermostat settings and potential energy savings.
- **Quiet Operation:** Engineered for reduced noise levels during use.
- **Portability:** Equipped with castor wheels and integrated handles for easy movement between rooms.
- **Electronic Controls:** Features a lighted display with adjustable thermostat, 3 fan speeds, timer, and mode selection.
- **12-Hour Timer:** Programmable timer for automatic on/off operation to conserve energy.
- **LCD Remote Control:** Full-featured remote for convenient control of all unit settings.



Image: Visual representation of the unit's approximate dimensions (17.5" W x 29.5" H x 15.5" D) and its 3-in-1 functions (Cool, Circulate, Dehumidify) for 400 sq. ft. rooms.



Image: Illustration of the unit's quiet operation, suitable for sleeping, watching TV, or reading.



Image: A person moving the portable air conditioner, highlighting its pre-assembled wheels and no-tools installation window kit.

Setup and Installation

Follow these steps to set up your portable air conditioner:

1. **Positioning:** Place the unit on a flat, stable surface near a window and an electrical outlet. Ensure there is at least 12 inches (30 cm) of space around the unit for proper airflow.
2. **Window Kit Installation:**
    - Assemble the window kit components according to the diagrams provided in the separate window kit instructions.
    - Adjust the window bracket to fit your window opening.
    - Secure the window bracket in place.
3. **Exhaust Hose Connection:**
    - Attach one end of the exhaust hose to the unit's exhaust outlet.

- Attach the other end of the exhaust hose to the window kit adapter.
- Ensure all connections are secure to prevent air leakage.

4. **Power Connection:** Plug the power cord into a grounded electrical outlet.

Find the correct cooling capacity for your room

Find the corresponding cooling capacity that matches your desired area (square footage). Cooling capacity shown in British thermal units (BTU) per hour.

Area to be cooled (SQ. FT.)	Capacity Needed (BTU)
150 SQ. FT.	5,000
UP TO 250 SQ. FT.	6,000
UP TO 300 SQ. FT.	7,000
UP TO 350 SQ. FT.	8,000
UP TO 400 SQ. FT.	9,000
UP TO 450 SQ. FT.	10,000
UP TO 550 SQ. FT.	12,000
UP TO 700 SQ. FT.	14,000
UP TO 1000 SQ. FT.	18,000
UP TO 1200 SQ. FT.	21,000
UP TO 1400 SQ. FT.	23,000
UP TO 1500 SQ. FT.	24,000

Adjustment as necessary

Make any adjustments for the following circumstance:

i. If the room is heavily shaded, reduce capacity by 10 percent.
ii. If the room is very sunny, increase capacity by 10 percent.
iii. If more than two people regularly occupy the room, add 600 BTUs for each additional person.
iv. If the unit is used in a kitchen, increase capacity by 4,000 BTUs.

Image: The portable air conditioner unit positioned in a bedroom, with the exhaust hose connected to a window kit.



Image: A close-up view of the exhaust hose connected to the window kit, demonstrating proper installation.

Operating Instructions

Your De'Longhi PACN270GN can be operated using the control panel on the unit or the included remote control.

Control Panel and Remote Control



Image: The remote control for the De'Longhi portable air conditioner, showing buttons for power, temperature adjustment, mode, fan speed, and timer.

- **Power Button:** Press to turn the unit ON or OFF.
- **Mode Button:** Cycle through Cooling, Dehumidifying, and Fan modes.
- **Temperature Adjustment (+/-):** Increase or decrease the desired temperature in Cooling mode.
- **Fan Speed Button:** Adjust fan speed (Low, Medium, High) in Fan or Cooling mode.
- **Timer Button:** Set the 12-hour timer for automatic operation.
- **°C/°F Button:** Switch between Celsius and Fahrenheit temperature display.

Operating Modes

- **Cooling Mode:** Select this mode for air conditioning. Set your desired temperature using the +/- buttons. The unit will cool the room to the set temperature.
- **Dehumidifying Mode:** This mode removes excess moisture from the air. The fan operates at a low speed, and the cooling function is reduced.
- **Fan Mode:** Circulates air without cooling. Select your preferred fan speed (Low, Medium, High).

Cooling Capacity Guide

To ensure optimal performance, select the appropriate cooling capacity for your room size. The table below provides a general guide for British Thermal Units (BTU) per hour based on square footage.



Image: Table showing recommended BTU capacity based on room area in square feet.

Capacity Adjustments

Consider the following factors when determining your required cooling capacity:

- If the room is heavily shaded, reduce capacity by 10 percent.
- If the room is very sunny, increase capacity by 10 percent.
- If more than two people regularly occupy the room, add 600 BTUs for each additional person.

- If the unit is used in a kitchen, increase capacity by 4,000 BTUs.

Maintenance

Regular maintenance ensures the longevity and efficiency of your unit.

- **Filter Cleaning:** The unit has a sensor on the filter. Clean the air filter regularly (e.g., every two weeks or when the filter indicator light illuminates) to maintain optimal performance. Refer to the full manual for detailed filter cleaning instructions.
- **Water Drainage:** In high humidity conditions or during dehumidifying mode, the internal water tank may fill. If the unit stops working and makes a gurgling sound or indicates a full tank, unplug the unit and drain the water. The drain valve is located at the bottom of the unit. Place a shallow pan underneath and open the valve to release accumulated water.
- **Seasonal Storage:** Before storing the unit for an extended period, ensure the internal tank is completely drained. Clean the filters and cover the unit to protect it from dust.

Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on.	No power, power cord unplugged, circuit breaker tripped.	Check power connection, ensure outlet is functional, reset circuit breaker if necessary.
Unit stops working, gurgling sound, or "tank full" alarm.	Internal water tank is full.	Unplug the unit, place a shallow pan under the drain valve at the bottom, and open the valve to drain water.
Insufficient cooling.	Dirty air filter, exhaust hose not properly installed, room too large, windows/doors open.	Clean air filter, ensure exhaust hose is sealed, close windows/doors, verify room size against capacity guide.
Unit is noisy.	Fan speed too high, unit not on a level surface.	Reduce fan speed, ensure unit is on a stable, level surface.

Specifications

Model:	PACN270GN
Cooling Power:	11500 British Thermal Units (ASHRAE) / 6700 BTU (DOE)
Recommended Room Size:	Up to 400 sq. ft.
Functions:	Air Conditioner, Dehumidifier, Fan
Dehumidifier Capacity:	90 pints/day
Voltage:	115 Volts
Noise Level:	53 dB

Refrigerant:	R 410A
Product Dimensions (W x D x H):	44.45 cm x 39.37 cm x 74.93 cm (Approx. 17.5" x 15.5" x 29.5")
Item Weight:	26.31 kg (Approx. 58 lbs)
Included Components:	Exhaust hose, connectors, window kit, remote control, Portable air conditioner unit

Warranty and Support

The De'Longhi PACN270GN Portable Air Conditioner comes with a**2-year warranty**. For technical assistance, warranty claims, or further information, please refer to the contact details provided in your product registration or visit the official De'Longhi website.
Manufacturer: De'Longhi
Place of Business: UPPER SADDLE RIVER, NJ, 07458 US