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Comfort-air PD-121D

User Manual

COMFORT-AIRE PD-121D PORTABLE AIR CONDITIONER

Model: PD-121D

Important Safety Information

Please read this manual carefully before operating your new Comfort-air PD-121D Portable Air Conditioner. Keep this manual for future reference. Failure to follow these instructions may result in property damage, injury, or death.

- Always operate the unit on a stable, level surface.
- Ensure the power supply matches the unit's requirements (115V).
- Do not block air inlets or outlets. Maintain at least 20 inches of clearance around the unit.
- Do not insert objects into the air vents.
- Unplug the unit before cleaning or performing any maintenance.
- Do not use in wet areas such as bathrooms or laundry rooms.
- Keep out of reach of children and pets.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

Setup

Before setting up your portable air conditioner, ensure all packaging materials are removed and inspect the unit for any damage.

Unpacking and Component Identification

Carefully remove the unit from its packaging. The following components should be included:

- Comfort-air PD-121D Portable Air Conditioner Unit
- Exhaust Hose
- Window Sealing Kit (Window Slider Kit, Adapter for Exhaust Hose, Adapter for Window Kit)
- Remote Control
- Drain Hose (for continuous drainage)
- User Manual (this document)



Image: The Comfort-aire PD-121D Portable Air Conditioner, a light-colored, rectangular unit with a control panel on top and wheels at the base for easy mobility. The brand name "Comfort-aire" is visible on the front.

Installation of Exhaust Hose and Window Kit

1. **Attach Exhaust Hose to Unit:** Screw the exhaust hose adapter onto the exhaust outlet at the back of the air conditioner unit. Ensure it is securely fastened.
2. **Assemble Window Sealing Kit:** Adjust the window slider kit to fit your window opening. Secure the two pieces together if they are adjustable.
3. **Attach Exhaust Hose to Window Kit:** Connect the other end of the exhaust hose (with its adapter) to the opening in the window sealing kit.
4. **Install Window Kit:** Place the assembled window kit into the window opening and close the window securely against it to seal the opening.
5. **Position Unit:** Place the portable air conditioner unit near the window, ensuring the exhaust hose is extended and not kinked or bent sharply. The hose should be as short and straight as possible for optimal performance.

Placement Considerations

- Place the unit on a flat, stable floor.
- Ensure there is at least 20 inches (50 cm) of space around the unit for proper airflow.
- Avoid placing the unit in direct sunlight or near heat sources.
- Ensure the power outlet is easily accessible.

Operating Instructions

Control Panel Overview

The control panel is located on the top of the unit and features various buttons and a digital display for easy operation.

- **Power Button:** Turns the unit ON or OFF.
- **Mode Button:** Cycles through operating modes: Cool, Fan, Dry (Dehumidify).
- **Temperature Up/Down Buttons:** Adjusts the desired temperature in Cool mode.
- **Fan Speed Button:** Selects fan speed: Low, Medium, High.
- **Timer Button:** Sets the auto-on or auto-off timer.
- **Sleep Button:** Activates Sleep mode for quiet, energy-efficient operation.
- **Display:** Shows current temperature, timer settings, and error codes.

Remote Control Functions

The included remote control provides convenient access to all functions from a distance. Ensure batteries are correctly inserted.

- All functions available on the control panel are also accessible via the remote control.
- Point the remote control directly at the receiver window on the unit.

Operating Modes

- **Cool Mode:**

Press the Mode button until "Cool" is indicated on the display. Use the Temperature Up/Down buttons to set your desired temperature (typically between 62°F - 86°F / 17°C - 30°C). The unit will cool the room to the set temperature.
- **Fan Mode:**

Press the Mode button until "Fan" is indicated. In this mode, the unit circulates air without cooling. Use the Fan Speed button to select Low, Medium, or High fan speed.
- **Dry (Dehumidify) Mode:**

Press the Mode button until "Dry" is indicated. This mode removes excess moisture from the air. The fan speed is automatically set to low and cannot be adjusted. Ensure the continuous drain hose is connected for this mode.

Timer Function

The timer allows you to set the unit to automatically turn ON or OFF after a specified period (1-24 hours).

- **Auto-Off:** While the unit is running, press the Timer button. Use the Up/Down buttons to set the desired hours until the unit turns off.
- **Auto-On:** While the unit is OFF, press the Timer button. Use the Up/Down buttons to set the desired hours until the unit turns on.

Maintenance

Regular maintenance ensures efficient operation and extends the lifespan of your portable air conditioner.

Air Filter Cleaning

The air filter should be cleaned every two weeks or more frequently depending on usage and air quality.

1. Unplug the unit from the power outlet.
2. Locate the air filter panel, usually at the back or side of the unit.
3. Remove the filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly.
5. Allow the filter to air dry completely before reinserting it into the unit. Do not use a dryer or direct heat.

Water Drainage

The unit has an internal water collection tank. When full, the unit will stop operating and display an "FL" (Full) error code. You will need to drain the water manually.

- **Manual Drainage:**

Place a shallow pan or tray under the lower drain port at the back of the unit. Remove the drain plug and allow the water to flow out. Replace the plug securely once drained.

- **Continuous Drainage (Recommended for Dry Mode):**

Attach the provided drain hose to the continuous drain port (usually located higher up on the back of the unit). Route the hose to a floor drain or a container placed lower than the unit's drain port to allow gravity drainage.

Storage

If storing the unit for an extended period:

1. Drain all water from the unit completely.
2. Clean the air filter.
3. Run the unit in Fan mode for a few hours to dry the internal components.
4. Unplug the power cord and wrap it neatly.
5. Store the unit in a cool, dry place, covered to protect from dust.

Troubleshooting

Before contacting customer service, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power; power cord unplugged; circuit breaker tripped; internal water tank full.	Ensure unit is plugged in; check circuit breaker; drain water tank (error code "FL").
Unit is running but not cooling.	Air filter dirty; exhaust hose not properly installed or kinked; window kit not sealed; room too large; doors/windows open.	Clean air filter; check exhaust hose for kinks and proper installation; ensure window kit is sealed; close doors/windows.
Unit is noisy.	Unit not on a level surface; air filter dirty; foreign object in fan.	Place unit on a level surface; clean air filter; check for obstructions.
"FL" error code displayed.	Internal water tank is full.	Drain the water from the unit.
Remote control not working.	Batteries dead or incorrectly inserted; remote not pointed at receiver.	Replace batteries; ensure correct polarity; point remote directly at unit's receiver.

Specifications

Technical specifications for the Comfort-aire PD-121D Portable Air Conditioner:

Feature	Specification
Model Name	PD-121D
Brand	Comfort-aire
Cooling Power	12000 British Thermal Units (BTU)
Capacity	1 Tons
Voltage	115 Volts
Wattage	3412 watts
Refrigerant	R 410A
Installation Type	Portable
Form Factor	Portable
Seasonal Energy Efficiency Ratio (SEER)	9

Warranty and Customer Support

Comfort-aire products are manufactured to the highest quality standards. This product comes with a limited warranty covering defects in materials and workmanship under normal use. Please refer to the warranty card included with your purchase for specific terms and conditions, including warranty period and coverage details.

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Comfort-aire Customer Service. Refer to your product documentation or the official Comfort-aire website for the most current contact information, including website, phone number, and email address.

When contacting support, please have your model number (PD-121D) and purchase date available.

