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> Perfect Aire 15,000 BTU PTAC Air Conditioner with 3.5kW Electric Heater User Manual

## PerfectAire 4PTH15A-HE-3.5

# Perfect Aire 15,000 BTU PTAC Air Conditioner with 3.5kW Electric Heater User Manual

Model: 4PTH15A-HE-3.5

## 1. INTRODUCTION AND PRODUCT OVERVIEW

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This manual provides essential information for the safe and efficient operation of your Perfect Aire 15,000 BTU Packaged Terminal Air Conditioner (PTAC) with a built-in 3.5kW Electric Heater. This unit is designed to provide year-round comfort, offering both cooling and heating capabilities for rooms up to 700 square feet. Please read this manual thoroughly before installation and use, and retain it for future reference.



Image 1.1: Front view of the Perfect Aire PTAC unit.

Video 1.1: Overview of Perfect Aire PTAC features, including freeze protection, heating/cooling functions, washable filters, quiet operation, and compatibility with standard wall sleeves.

## 2. IMPORTANT SAFETY INFORMATION

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Please read and follow all safety instructions to prevent injury or property damage. Failure to comply with these warnings may result in electric shock, fire, or serious injury.

- Always ensure the unit is properly grounded.
- Do not operate the unit with a damaged power cord or plug.
- Do not insert fingers or objects into the air inlet/outlet.
- Disconnect power before cleaning or performing any maintenance.
- 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.
- Ensure proper ventilation around the unit.
- Use only the power cord provided with the unit.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Perfect Aire 15,000 BTU PTAC Unit
- Power Cord (63 inches with Grounded LCDI Plug)
- User Manual (this document)

### 4. SETUP AND INSTALLATION

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The Perfect Aire PTAC unit is designed for quick and easy installation, fitting most standard PTAC wall sleeves (sleeve not included). Professional installation is recommended.

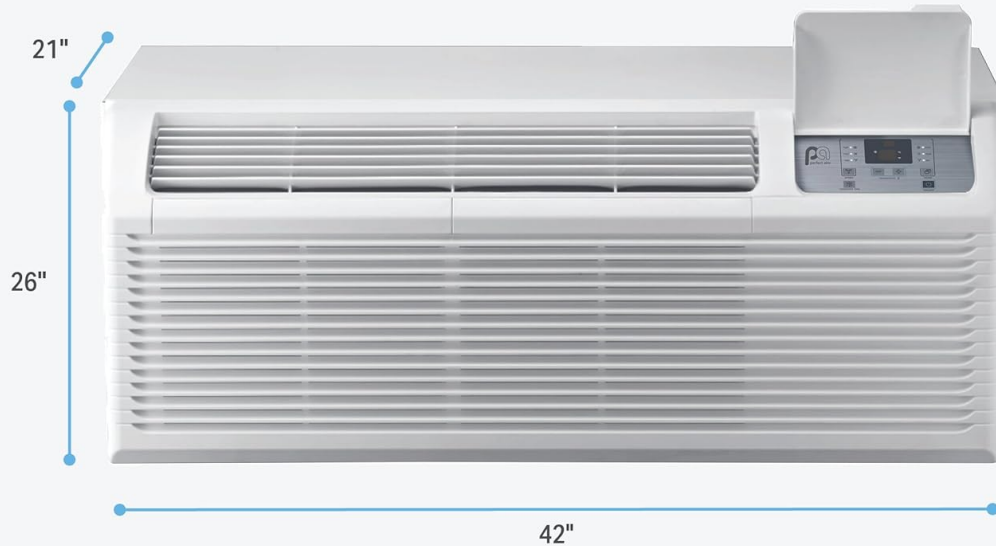
#### 4.1 Pre-Installation Checks

- Ensure the wall sleeve dimensions are compatible with the unit (21"D x 42"W x 16"H).
- Verify that a dedicated 230V/20A electrical outlet is available and properly installed.
- Confirm the power cord can reach the outlet without extension cords.

# PTAC WITH HEAT PUMP

15,000 BTU | 208/230V

WITH 3.5 KW ELECTRIC HEAT ASSIST



- QUIET OPERATION
- ENERGY EFFICIENT
- 10,900/8,900 BTU SUPPLEMENTAL HEAT
- COMPRESSOR RESTART & HIGH TEMPERATURE PROTECTION

Image 4.1: PTAC unit showing key dimensions (21"D x 42"W x 16"H) and features like heat pump and electric heat assist.

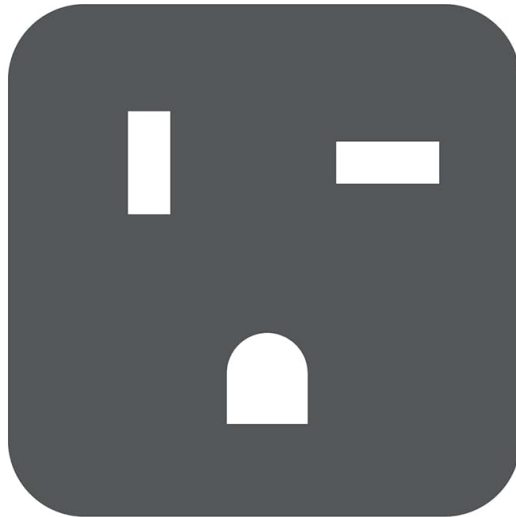
## 4.2 Installation Steps

1. Carefully unbox the PTAC unit and inspect for any shipping damage.
2. Slide the PTAC unit into the pre-installed wall sleeve. Ensure it is securely seated and level.
3. Connect the 63-inch power cord with the grounded LCDI plug to the dedicated 230V/20A electrical outlet.
4. If desired, install an exterior grille (not included) for a finished and uniform appearance.



Image 4.2: Illustration of the PTAC unit being installed into a standard wall sleeve, highlighting quick and easy installation.

# 63" POWER CORD WITH GROUNDED LCDI PLUG



**230V/20A OUTLET REQUIRED**

Image 4.3: Detail of the 63-inch power cord with a grounded LCDI plug, emphasizing the requirement for a 230V/20A outlet.

## 5. OPERATING INSTRUCTIONS

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Your Perfect Aire PTAC unit offers efficient heating and cooling for optimal room comfort.

### 5.1 Basic Operation

- **Power On/Off:** Use the power button on the control panel to turn the unit on or off.
- **Mode Selection:** Select between Cooling, Heating, Fan Only, or Auto modes using the mode button.
- **Temperature Adjustment:** Use the up/down arrows to set your desired temperature. The unit will automatically adjust to maintain this setting.
- **Fan Speed:** Adjust the fan speed (Low, Medium, High, Auto) for personalized airflow.

### 5.2 Key Features

- **Heating and Cooling:** The unit provides 14,700/14,500 BTU cooling and 13,500/13,200 BTU heating (with 3.5kW electric heat assistance) for spaces up to 700 sq. ft.
- **Smart Operation:** Features a memory function that retains your settings after a power interruption and a compressor restart delay for reliable operation.

- **Quiet Performance:** Engineered for quiet operation, ensuring minimal disturbance.
- **Efficient Performance:** Rated 9.6 EER for economical year-round use.
- **Reliable Heating:** Capable of providing effective heating in temperatures as low as 25°F.



Image 5.1: The PTAC unit effectively cooling a room, illustrating its capacity for spaces up to 700 sq. ft.



# ALL-IN-ONE HEATING & COOLING

Image 5.2: Visual representation of the PTAC unit providing both warm (red) and cool (blue) air, signifying its dual heating and cooling functionality.



## RELIABLE HEATING IN TEMPS AS LOW AS 25°F

Image 5.3: The PTAC unit installed in a room with a snowy outdoor view, demonstrating its reliable heating capability even in low temperatures.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your PTAC unit.

### 6.1 Cleaning the Washable Filter

The unit features an easy-clean, washable filter that helps maintain indoor air quality and unit efficiency. Clean the filter regularly, typically every 2-4 weeks, or more often depending on usage and air quality.

1. Turn off the unit and disconnect it from the power supply.
2. Locate the filter access panel, usually on the front of the unit.
3. Carefully remove the air filter.
4. Wash the filter with warm, soapy water. Rinse thoroughly.
5. Allow the filter to air dry completely before reinserting it.
6. Reinstall the dry filter and close the access panel.
7. Reconnect power to the unit.

### 6.2 General Cleaning

- Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the air intake and exhaust vents are free from obstructions.

## 7. TROUBLESHOOTING

Before contacting customer support, review these common issues and solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power, tripped circuit breaker, loose plug	Check power connection, reset circuit breaker, ensure plug is secure.
Insufficient cooling/heating	Dirty air filter, blocked air vents, incorrect mode setting, room size exceeds capacity	Clean air filter, clear obstructions, select correct mode, ensure unit matches room size.
Unusual noise	Loose parts, unit not level, foreign object inside	Ensure unit is level, check for loose components, inspect for foreign objects (disconnect power first).
Water leakage	Blocked drain hose, improper installation angle	Check and clear drain hose, ensure unit is installed with a slight tilt outwards for drainage.

## 8. SPECIFICATIONS

Feature	Detail
Brand	PerfectAire
Model Number	4PTH15A-HE-3.5
Cooling Capacity	15,000 BTU
Heating Capacity	13,500/13,200 BTU (with 3.5kW Electric Heat Assist)
Coverage Area	Up to 700 sq. ft.
Voltage	230 Volts
Amperage	20A (Dedicated Circuit Required)
Energy Efficiency Ratio (EER)	9.6
Product Dimensions (D x W x H)	21 x 42 x 16 inches
Item Weight	117 pounds
Noise Level	52.5 Decibels
Installation Type	Through The Wall
Special Features	4 Way Swing, Fast Cooling, Memory Function, Compressor Restart Delay
Included Components	Power Cord

## 9. WARRANTY AND CUSTOMER SUPPORT

For warranty information or technical assistance, please refer to the warranty card included with your product or visit the official PerfectAire website. You may also contact PerfectAire customer support directly for further assistance.

**PerfectAire Customer Support:** [Visit the PerfectAire Store on Amazon](#)