Klimaire PTHP15H352-KC-3

Klimaire PTAC 15,000 BTU Air Conditioner Heat Pump R-32 with Remote Control & 3.5 kW Electric Heater (Model PTHP15H352-KC-3) Instruction Manual

Brand: Klimaire | Model: PTHP15H352-KC-3

1. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death.

- Ensure the unit is installed by a qualified technician in accordance with all local and national electrical and building codes.
- Always disconnect power to the unit before performing any maintenance or cleaning.
- Do not block air inlets or outlets. Restricted airflow can lead to overheating and reduced performance.
- Keep children and pets away from the unit during operation.
- Do not insert objects into the unit's openings.
- This unit uses R-32 refrigerant. Handle with care and ensure proper ventilation during servicing.

2. PRODUCT OVERVIEW & FEATURES

The Klimaire PTAC Heat Pump R-32 Series provides efficient cooling and heating for various spaces. It is designed for seamless replacement in standard 42" x 16" wall sleeves.

Figure 2.1: Klimaire PTAC 15,000 BTU Air Conditioner Heat Pump unit.

Key Features:

- **Seamless Replacement:** Compatible with most standard 42" x 16" slide-in wall sleeves for easy installation.
- **Exceptional Efficiency:** EER 10.6. Cooling Capacity: 14,700/14,500 BTU/h. Heating Capacity (Heat Pump): 13,500/13,200 BTU/h. Auxiliary 3.5 kW Electric Heating Capacity: 10,900/8,900 BTU/h.
- **Versatile Applications:** Ideal for hotels, motels, hospitality, nursing homes, workshops, and new room additions.
- **Smart Control (Optional Wi-Fi):** Control your unit with your smartphone using the NetHome Plus App for access to all comfort features.

Figure 2.2: Diagram highlighting advanced features such as washable filter, digital display, DIP switch configurations, dual fan motors, heat pump compressor, enhanced golden fins, and fresh air intake.

Figure 2.3: Illustration of the 20A 3-prong plug (Type LCDI 6-20P) with integrated current detection, circuit interrupter, and manual reset for safety.

Figure 2.4: Close-up of the digital display control panel with push buttons and LED display for temperature and operational codes.

3. WHAT'S INCLUDED

Your Klimaire PTAC unit package includes the following components:

- 15,000 BTU Heat Pump PTAC Unit (R-32 refrigerant) with Auxiliary 3.5 kW Electric Heater
- Wireless Remote Control
- 20A 3-prong plug (Type LCDI 6-20P)

Figure 3.1: Visual representation of included items: PTAC unit, wireless remote control, drain kit, and control panel sticker.

4. SPECIFICATIONS

Feature	Detail
Brand Name	Klimaire
Model Info	PTHP15H352-KC-3
Item Weight	126 pounds

Feature	Detail
Product Dimensions	21 x 42 x 16 inches (21"D x 42"W x 16"H)
Efficiency (EER)	10.6
Cooling Capacity	15,000 British Thermal Units (14,700/14,500 BTU/h)
Heating Capacity (Heat Pump)	13,500/13,200 BTU/h
Auxiliary Electric Heating Capacity	3.5 kW (10,900/8,900 BTU/h)
Power Requirements	208-230V, single-phase, 60Hz
Refrigerant	R-32
Noise Level	51.99 Decibels
Installation Type	Packaged
Color	White
Material Type	Plastic
Floor Area Coverage	750 Square Feet
Special Features	24 V wall thermostat compatibility, washable air filters, Celsius/Fahrenheit display, quiet operation, suitable for hospitality/residential.

PTAC and PTHP
Packaged Terminal Air Conditioners & Heat Pump

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Specs - PTHP-KC Series - Air Conditioner & Heat Pump

Klimaire Model Number			PTHP09H352-KC	PTHP12H352-KC	PTHP15H352-KC PTAH15H352-KC	PTHP15H502-KC
MPN			MWIUP-09AEN1-ML8	MWIUP-12AEN1-MK6	MWIUP-15AEN1-MJ6	MWIUP-15AEN1-MJ6
Power supply	Voltage	V/ph/Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
Cooling	Capacity	Btu/h	8800/8500	12000/11800	14700/14500	14700/14500
	Power Input	W	680/665	1035/1020	1390/1370	1390/1370
	Current	A	2.99/3.23	4.50/4.89	6.03/6.58	6.03/6.58
	EER	Btu/h/W	12,8	11,6	10,6	10,6
Heating (Heat pump)	Capacity	Btu/h	7800/7500	10800/10500	13500/13200	15000/12200
	Power Input	W	600/580	930/905	1237/1209	4769/3953
	Current	A	2.64/2.82	4.05/4.36	5.38/5.82	5.38/5.82
	COP	W/W	3,8	3,4	3,2	3,2
Heating (PTC)	Capacity	Btu/h	10900/8900	10900/8900	10900/8900	10900/8900
	Input power	W	3535.5/2897	3535/2900	3535/2900	4769/3953
	Current	A	15.3/13.7	15.3/13.7	15.3/13.7	22/19.7
Heater		kW	3,5	3,5	3,5	5
Starting current		A	47,1	47,1	47,1	66
Min. Circuit ampacity		A	20	20	20	30
Moisture removal	Hi / Me / Lo	pint/h	0.89 / 1.12 / 1.27	2.94 / 3.06 / 3.19	4.50 / 4.52 / 4.59	4.50 / 4.52 / 4.59
Compressor	Type	/	ROTARY	ROTARY	ROTARY	ROTARY
	Capacity	W	2280	3510/3560	4000	4000
	Power Input	W	563	822/835	1310	1310
	Rated current (RLA)	A	2,7	3.90/3.52	6,35	6,35
	LRA (Locked rotor amp)	A	17	27	34,5	34,5
	Capacitor	μF	20	35	35	35

Figure 4.1: Detailed specifications for Klimaire PTAC and PTHP units, including power, cooling, and heating capacities.

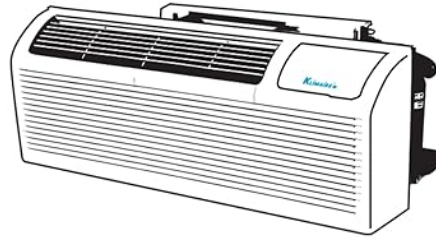|						
Indoor Fan Motor	Input power	W	37	37	37	37
	Speed(Hi/Mi/Lo)	rpm	1100/1000/900	1100/1010/880	1100/1010/880	1100/1010/880
	Capacitor	μF	1	1	1	1
Outdoor Fan motor	Input power	W	87	87	87	87
	Speed(Hi/Mi/Lo)	rpm	1580	1590	1590	1590
	Capacitor	μF	3	3	3	3
Insioor Side Air Flow	Hi / Mi / Lo	cfm	385 / 355 / 319	396 / 360 / 318	372 / 343 / 310	372 / 343 / 310
Indoor Sound Pressure Level	Hi / Mi / Lo	dB(A)	52.5 / 52 / 51.5	51.4 / 51 / 51	53 / 52.2 / 52	53 / 52.2 / 52
Outdoor Side Sound Noise Level	Hi / Mi / Lo	dB(A)	67.5 / 62.8 / 62.7	67.6 / 67.3 / 67.3	67 / 65.7 / 65.4	67 / 65.7 / 65.4
Unit Dimensions	W x D x H	in	42 x 20.9 x 16	42 x 20.9 x 16	42 x 20.9 x 16	42 x 20.9 x 16
Packing Dimensions	W x D x H	in	44,09	44,09	44,09	44,09
Weight	Net / Gross	lb	108.4 / 119.1	115.7 / 125	116.6 / 126.5	116.6 / 126.5
Refrigerant	Type / Charge (lb)	/ lb	R410A / 1.9	R410A / 2	R410A / 2.3	R410A / 2.3
Design pressure	Suction / Discharge	psi	300 / 540	300 / 540	300 / 540	300 / 540
Electrical Plug	Type	/	LCDI(6-20P)	LCDI(6-20P)	LCDI(6-20P)	LCDI(6-30P)
	Power cord type	/	12#x3	12#x3	12#x3	12#x3
Control		Type	Electronic Control	Electronic Control	Electronic Control	Electronic Control
Operation temperatures	Indoor (Cooling / Heating)	°F	63 / 90	32 / 80	63 / 90	32 / 80	63 / 90	32 / 80	63 / 90	32 / 80
	Outdoor (Cooling / Heating)	°F	64 / 109	23 / 75	64 / 109	23 / 75	64 / 109	23 / 75	64 / 109	23 / 75

Figure 4.2: Continued specifications for Klimaire PTAC and PTHP units, including fan motor details, noise levels, dimensions, and certifications.

5. SETUP & INSTALLATION

The Klimaire PTAC unit is designed for straightforward installation, particularly as a replacement for existing units.

Compatibility:

The unit is compatible with most standard 42" x 16" slide-in wall sleeves. This design facilitates an easy and efficient upgrade to your climate control system.

Installation Requirements:

- New installations require a wall sleeve and rear grille (not included).
- Power requirements: 208-230V, single-phase, 60Hz. Ensure appropriate electrical wiring and a 20A 3-prong plug (Type LCDI 6-20P) receptacle are available.
- Refer to the detailed installation guide provided with your unit for specific instructions and safety precautions.
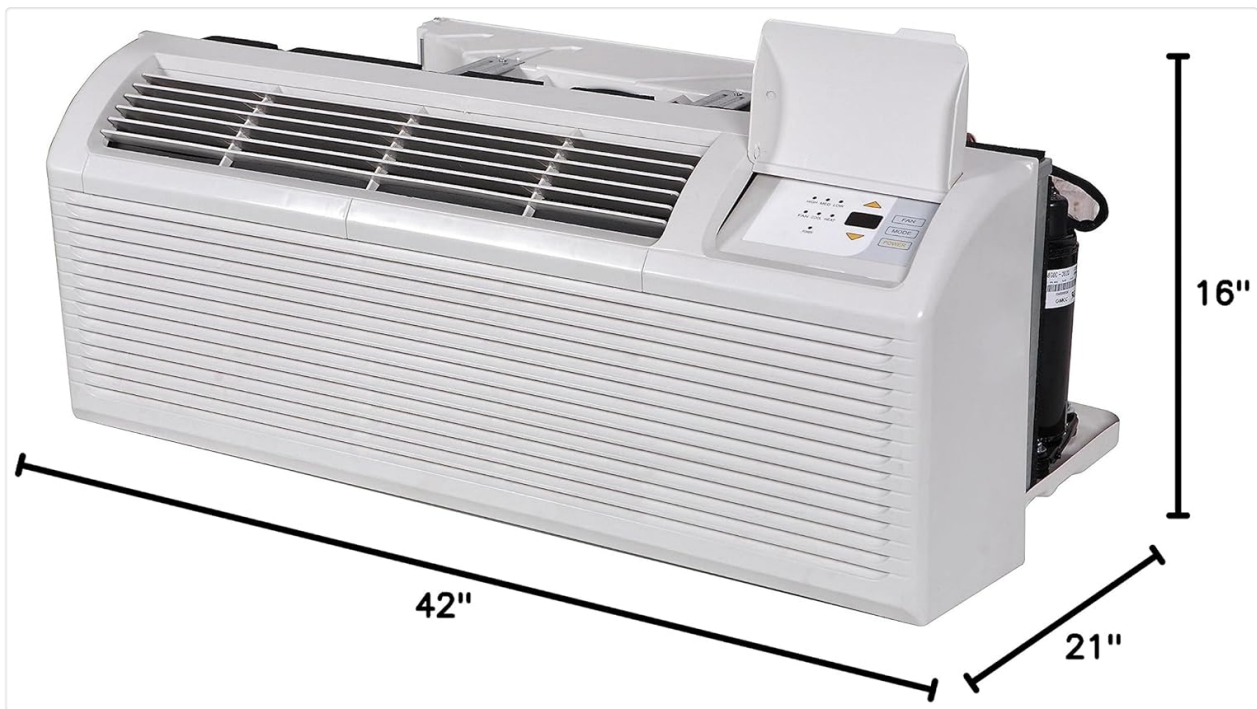
Figure 5.1: Diagram showing the dimensions of the Klimaire PTAC unit (42" Width x 20.9" Depth x 16" Height) and its compatibility with standard wall sleeves and grilles (not included).

6. OPERATING INSTRUCTIONS

The Klimaire PTAC unit offers various modes and controls for optimal comfort.

Control Panel:

The unit features an easy-to-use digital display control panel with push buttons. You can adjust temperature, fan speed (High, Medium, Low), and select operating modes (Cool, Heat, Fan).

Klimaire®

Packaged Terminal
Air Conditioners & Heat Pump

Dimensions & Compatibility
42" Width x 20.9" Depth x 16" Height

Fits Standard 42" x 16" Wall Sleeve and Grille
Note: Sleeve and grille are not included and are required for new installations.

Figure 6.1: Close-up of the digital display control panel, showing temperature setting, fan speed indicators, and mode selection buttons.

Wireless Remote Control:

For added convenience, use the included wireless remote control to adjust settings from a distance.

Wi-Fi Smart Control (Optional):

With the optional Wi-Fi feature, you can control your PTAC unit using your smartphone via the NetHome Plus App. This allows for remote access to all comfort features.

DIGITAL DISPLAY CONTROL PANEL

Easy push button controls with an LED display for set temperature, modes, operational codes, and self-diagnostic error codes for quick troubleshooting and maintenance.

CONTROL PANEL STICKER INCLUDED

This unit is controlled by wall mounted thermostat

Figure 6.2: Illustration of controlling the Klimaire PTAC unit via a smartphone app, highlighting Wi-Fi connectivity and compatibility with smart home systems like Google Home and Alexa.

Operating Modes:

- **Cool Mode:** Provides cooling to maintain your desired room temperature.
- **Heat Mode:** Utilizes the heat pump for efficient heating. The auxiliary electric heater activates when additional heat is required.
- **Fan Mode:** Circulates air without cooling or heating.

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Video 6.1: A seller-provided video demonstrating the operation of a Terminal Air Conditioner with Heat Pump, showcasing its features and functionality.

7. MAINTENANCE

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

Air Filter Cleaning:

The unit features a long-lasting washable polypropylene filter. Regularly pull out and wash the filter to maintain air quality and unit efficiency. This is particularly beneficial for hospitality, assisted living, and residential applications.

Figure 7.1: Image illustrating the washable air filter being cleaned, emphasizing ease of removal and maintenance.

General Cleaning:

- Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the drain pan is clear of debris to prevent water overflow.

8. TROUBLESHOOTING

If you encounter issues with your Klimaire PTAC unit, refer to the following common troubleshooting tips. For more complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, power cord issue.	Check power supply, reset circuit breaker, ensure power cord is securely plugged in.
Insufficient cooling/heating	Dirty air filter, blocked air vents, incorrect temperature setting, room size too large.	Clean air filter, clear obstructions, adjust temperature, ensure unit capacity matches room size.
Unusual noise	Loose parts, foreign objects, fan motor issue.	Inspect for loose components or objects. If noise persists, contact service.
Water leakage	Clogged drain pan, improper installation.	Clear drain pan, verify proper unit leveling and drainage setup.

Error Codes:

The digital display may show error codes for quick troubleshooting. Refer to the full user manual for a complete list of error codes and their corresponding solutions.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product at the time of purchase. Klimaire is committed to providing quality products and customer satisfaction.

Customer Support:

If you require assistance with installation, operation, maintenance, or troubleshooting, please contact Klimaire customer support. Contact details can typically be found on the manufacturer's website or in your product packaging.

Visit the official Klimaire Store for more information and products: Klimaire Store