

# Whirlpool WGPH45 AM Installation Instructions Manual

Package heat pump or package cooling unit



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

19

20

•

PAGE

1

OF 20 GO

•

[Table of Contents](#)

- 

Troubleshooting

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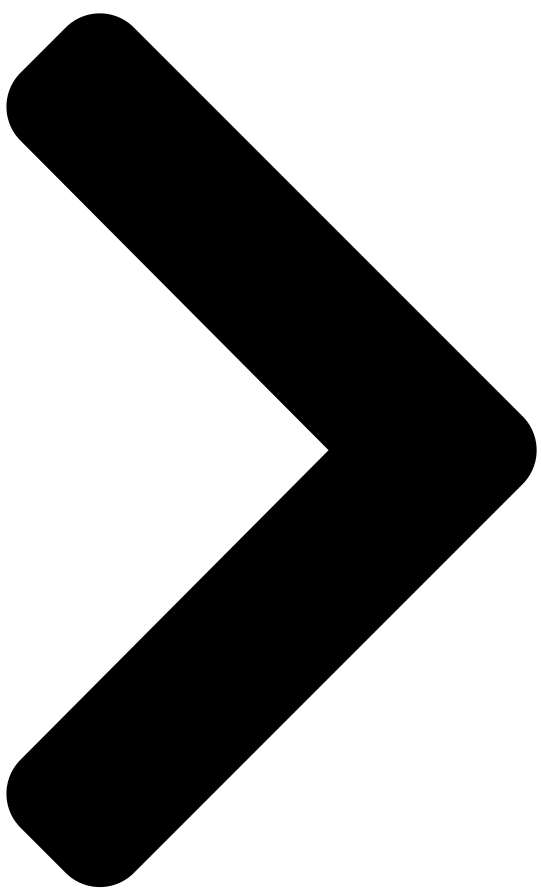
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# INSTALLATION INSTRUCTIONS FOR PACKAGE HEAT PUMP OR PACKAGE COOLING UNIT



<b>HEAT PUMP/ELECTRIC COOLING SAFETY</b> .....	1
<b>INSTALLATION REQUIREMENTS</b> .....	2
Tools and Parts .....	2
Location Requirements .....	2
Ductwork Requirements .....	4
Electrical Requirements .....	4
<b>INSTALLATION INSTRUCTIONS</b> .....	4
Inspect Shipment .....	4
Place Heat Pump or Air Conditioning Unit in Final Location .....	5
Connect Condensate Drain .....	5

<a href="#">Install Ductwork</a> .....	5
<a href="#">Filters</a> .....	5
<a href="#">Electric Heat Installation and Adjustment</a> .....	6
<a href="#">Make Electrical Connections</a> .....	6
<a href="#">Complete Installation</a> .....	7



**Recognize this symbol as a safety precaution.**

Please adhere to the following warnings and cautions when installing, adjusting, altering, servicing or operating this unit.

## ATTENTION INSTALLATION PERSONNEL

**Prior to installation, thoroughly familiarize yourself with this installation manual. Observe all safety warnings.**

**During installation or repair, caution is to be observed.**

**It is your responsibility to install the product safely and to educate the customer on its safe use.**

### Recognize Safety Symbols, Words and Labels

The following symbols and labels are used throughout this manual to indicate immediate or potential hazards. It is the owner's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of serious personal injury or death, property damage and/or product damage.

### Placeho

### for Ba

### Code

®

### Whirlpool Gold

### Models

**WGPH45\*\*AM, WPC45\*\*AM**

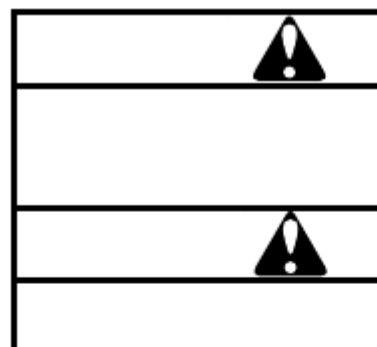
**WPIO-362**

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## HEAT PUMP/ELECTRIC COOLING SAFETY

### Table of Contents

<b>SEQUENCE OF OPERATION</b> .....	7
<a href="#">Start-up Procedure-Cooling Cycle</a> .....	7
<a href="#">Start-up Procedure-Heat Pump</a> .....	8
<a href="#">Final System Checks</a> .....	8
<a href="#">Explanation and Guidance-Heat Pump</a> .....	8
<a href="#">Defrost Cycle</a> .....	9
<a href="#">System Troubleshooting</a> .....	10
<a href="#">Circulating Air Blower</a> .....	11
<a href="#">Blower Performance Data</a> .....	12
<b>CHARGE VERIFICATION</b> .....	14
<b>SYSTEM MAINTENANCE</b> .....	16
<b>TROUBLESHOOTING</b> .....	17
<b>ASSISTANCE OR SERVICE</b> .....	20
<a href="#">Accessories</a> .....	20
<b>Hazards or unsafe practices could result in property</b>	



damage, product damage, severe personal injury or death.

Hazards or unsafe practices may result in property damage, product damage, personal injury or death.

Hazards or unsafe practices may result in property or product damage.

Tradewinds Distributing Company, LLC



## **WARNING**

Goodman 1

## **CAUTION**

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## **CAUTION**

Goodman 9

14610 Breakers Drive  
Jacksonville, FL 32258

[Next Page](#)

- 1
- 2
- 3
- 4
- 5

# Troubleshooting

System Troubleshooting 10

TROUBLESHOOTING 17

## Related Manuals for Whirlpool WGPH45 AM

[Heat Pump Whirlpool WHP44 Installation Instructions Manual](#)

(16 pages)

[Heat Pump Whirlpool GOLD W4GH6 Installation Instructions Manual](#)

Whirlpool heat pump user manual (20 pages)

[Heat Pump Whirlpool W4GH8 Installation Instructions Manual](#)

(20 pages)

[Heat Pump Whirlpool WHP43 Installation Instructions Manual](#)

(16 pages)

[Heat Pump Whirlpool W2GH3 Installation Instructions Manual](#)

(12 pages)

[Heat Pump Whirlpool W2H3 Installation Instructions Manual](#)

(12 pages)

[Heat Pump Whirlpool W2PH3 Installation Instructions Manual](#)

Whirlpool w2ph3; w2pc3; w4ph4; w4pc4 heat pump (16 pages)

## Summary of Contents for Whirlpool WGPH45 AM

### [Page 1: Table Of Contents](#)

CAUTION Goodman 9 Placeho Hazards or unsafe practices may result in property for Ba or product damage. Code Tradewinds Distributing Company, LLC ® Whirlpool Gold Models 14610 Breakers Drive WGPH45\*\*AM, WPC45\*\*AM Jacksonville, FL 32258 WPIO-362...

### [Page 2: Installation Requirements](#)

WARNING WARNING Installation and repair of this unit should Goodman 6 HIGH VOLTAGE! be performed ONLY by individuals meeting Goodman 7 the requirements of an "Entry Level Technician" Disconnect ALL power before servicing. as specified by the Air-Conditioning, Heating and Multiple power sources may be present.

[Page 3](#) ■ The ductwork must be placed into the roof curb before Ground Level Preinstallation Details mounting the package unit. The unit should be set on a solid, level foundation, preferably a concrete slab at least 4" (10.2 cm) thick. The slab should be above ground level and surrounded by a graveled area for good drainage.

### [Page 4: Ductwork Requirements](#)

Minimum Clearances Down Discharge Applications Cut insulation around bottom openings and remove panels from the bottom of the unit, saving the screws holding the panels in 10" place. (25.4 cm) NOTE: Single phase models require installation of horizontal duct kit #20464501PDGK (medium chassis) and #20464502PDGK (large chassis).

### [Page 5: Place Heat Pump Or Air Conditioning Unit In Final Location](#)

Place Heat Pump or Air Conditioning Unit in Final Location WARNING Goodman 109 To prevent property damage, the unit should remain in an upright position during all rigging and moving operations. To facilitate lifting and moving when a crane A. Drain connection D.

## [Page 6: Electric Heat Installation And Adjustment](#)

Electric Heat Installation and Adjustment Make Electrical Connections Wiring WARNING HIGH VOLTAGE! Goodman 6 WARNING Disconnect ALL power before servicing. HIGH VOLTAGE! Goodman 6 Multiple power sources may be present. Disconnect ALL power before servicing. Failure to do so may cause property damage, Multiple power sources may be present.

## [Page 7: Complete Installation](#)

Low Voltage Wiring Internal Wiring ■ Heat pumps—Connect 24V wires from the thermostat to the A diagram detailing the internal wiring of this unit is located on corresponding wires in the control box using 18 AWG as the electrical box cover. If any of the original wire supplied with follows: the appliance must be replaced, the wire gauge and insulation must be the same as the original wiring.

## [Page 8: Start-Up Procedure-Heat Pump](#)

11. If the unit is being checked in the wintertime when the outdoor coil is cold enough to activate the defrost control, Start-up Procedure—Heat Pump observe at least one defrost cycle to make sure the unit defrosts completely. WARNING Final System Checks Goodman 6 HIGH VOLTAGE! 1.

## [Page 9: Defrost Cycle](#)

This is accomplished by reversing the heat pump to the cooling The defrost control will initiate a defrost cycle when the selected cycle. At the same time, the outdoor fan stops to hasten the time period has elapsed and the defrost sensor sees a temperature rise of the outdoor coil and lessen the time required temperature below freezing.

## [Page 10: System Troubleshooting](#)

System Troubleshooting Symptom Possible Cause Remedy High head—low suction ■ Restriction in liquid line or flowrator ■ Remove or replace with proper size flowrator. ■ ■ High head—high or normal Dirty condenser coil Clean coil. suction ■ Overcharged ■ Correct system charge. ■...

## [Page 11: Circulating Air Blower](#)

Circulating Air Blower ECM Motor Speed Adjustment WARNING Each ECM blower motor has been preprogrammed for operation at 4 distinct airflow levels when operating in Cooling/ Heat Pump mode or Electric Heat mode. These 4 distinct levels may also be HIGH VOLTAGE! adjusted slightly lower or higher if desired.

## [Page 12: Blower Performance Data](#)

Blower Performance Data E.S.P. (In. of H Model Speed Volts—230 WPC4524AM T1 (G) Watts T2/T3 Watts T4/T5 1,058 1,012 Watts WPC4530AM T1 (G) Watts T2/T3 1,132 1,070 1,011 Watts T4/T5 1,287 1,236 1,165 1,123 1,066 1,012 Watts WPC4536AM T1 (G) Watts T2/T3 1,232...

[Page 13](#) WGP4530AM, WGP4536AM WGP4560AM Cooling/HP Adjust Electric Adjust Cooling/HP Adjust Electric Adjust Speed CFM\* Heat CFM\* Speed CFM\* Heat CFM\* Minus Minus Minus 1,260 Minus 1,260 Normal Normal Normal 1,400 Normal 1,400 Plus Plus Plus 1,540 Plus 1,540 Minus Minus Minus 1,440 Minus 1,440...

## [Page 14: Charge Verification](#)

CFM Output for DIP Switch Combinations 5 and 6— CFM Output for DIP Switch Combinations 5 and 6— Cooling/Heating Cooling/Heating Speed Cooling/ Speed Cooling/ Model Switch 5 Switch 6 HP—CFM Model Switch 5 Switch 6 HP—CFM WGP4524 1,050 WGP4543 1,800 1,400 1,700 1,400...

[Page 15](#) Saturated Suction Pressure Temperature Suction Pressure Saturated Suction Temperature °F Suction Pressure Saturated Suction Temperature °F PSIG R-410A PSIG R-410A Subcooling = Saturated Line Temperature - Liquid Line Temperature Saturated Liquid Pressure Temperature Liquid Pressure Saturated Liquid Temperature °F Liquid Pressure Saturated Liquid Temperature °F PSIG R-410A...

## [Page 16: System Maintenance](#)

All package units with fixed orifice devices are charged using the Refrigerant Charge Check—Units with Fixed superheat method at the compressor suction line. Orifice Devices For



charging in the warmer months, 8°F ± 3°F superheat at the compressor is required at conditions 95°F (35°C) outdoor After completing the airflow measurements and adjustments, the ambient (dry bulb) temperature, 80°F (27°C) dry bulb/67°F (19°C) unit's refrigerant charge must be checked.

### [Page 17: Troubleshooting](#)

TROUBLESHOOTING Wiring Diagram—WGPH45(24-43)AM WARNING Goodman 6 Long HIGH VOLTAGE! Disconnect ALL power before servicing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. NOTE: Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring. NOTE #2 See NOTE 4 LVJB...

[Page 18](#) Wiring Diagram—WGPH45(49-60)AM WARNING Goodman 6 Long HIGH VOLTAGE! Disconnect ALL power before servicing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. NOTE: Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring. NOTE #2 See NOTE 4 LVJB...

[Page 19](#) Wiring Diagram—WPC45\*\*AM WARNING Goodman 6 Long HIGH VOLTAGE! Disconnect ALL power before servicing. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. NOTE: Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring. NOTE #3 See NOTE 5 LVJB...

### [Page 20: Assistance Or Service](#)

ASSISTANCE OR SERVICE If you need further assistance, you can write to the below address with any questions or concerns: Accessories Tradewinds Distributing Company, LLC To order accessories, contact your Whirlpool ® Home Cooling and 14610 Breakers Drive Heating dealer.

This manual is also suitable for:

Wpc45 amGold wgph45\*\*amGold wpc45\*\*amGold wpc4524am41Gold wpc4530am41Gold wpc4536am41 ... [Show all](#)