



Whirlpool W2PG Installation Instructions Manual

Package gas electric furnaces

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INSTALLATION INSTRUCTIONS FOR PACKAGE GAS ELECTRIC FURNACES



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GAS HEATING/ELECTRIC COOLING SAFETY

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."

These words mean:

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

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Whirlpool

Models

W2PG, W4PG

48289K005

Your safety and the safety of others are very important.

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You can be killed or seriously injured if you don't immediately follow instructions.

You can be killed or seriously injured if you don't follow

instructions.

Whirlpool

®

Home Cooling and Heating

14610 Breakers Drive

Jacksonville, FL 32258



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[Furnace Whirlpool Whirlpool furnace User Instructions](#)

(12 pages)

[Furnace Whirlpool WFCU Installation Instructions Manual](#)

(28 pages)

[Furnace Whirlpool WFCT Installation Instructions Manual](#)

90+ multipositional gas furnace (32 pages)

[Furnace Whirlpool Gold WGFM195 Installation Instructions Manual](#)

Gold gas-fired warm air furnace (52 pages)

[Furnace Whirlpool GAS FURNACE User Instructions](#)

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[Furnace Whirlpool GAS FURNACE User Instructions](#)

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[Furnace Whirlpool WGFD28 Installation Instructions Manual](#)

80% 2-stage variable speed gas furnace gold models (40 pages)

[Furnace Whirlpool WGFM29 Installation Instructions Manual](#)

93% and 95% 2-stage variable-speed gas furnace (52 pages)

[Furnace Whirlpool WGFD293 Installation Instructions Manual](#)

93% and 95% 2-stage variable speed gas furnace (52 pages)

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(48 pages)

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80% 2-stage variable speed gas furnace (40 pages)

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90+ gas furnace (24 pages)

[Furnace Whirlpool WFAU Installation Instructions Manual](#)

(20 pages)

[Furnace Whirlpool WEFV08S-1A Installation Instructions Manual](#)

Variable speed electric furnace (16 pages)

[Furnace Whirlpool WFAU Installation Instructions Manual](#)

(24 pages)

Summary of Contents for Whirlpool W2PG

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All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed. Whirlpool ® Home Cooling and Heating ® Whirlpool Models 14610 Breakers Drive W2PG, W4PG Jacksonville, FL 32258 48289K005...

[Page 2: Installation Requirements](#)

IMPORTANT SAFETY INSTRUCTIONS Use only with type of gas approved for this furnace. Always install furnace to operate within the furnace's Refer to the furnace rating plate. intended temperature-rise range with a duct system which has an external static pressure within the Install this furnace only in a location and position as allowable range, as specified in the

"Complete specified in the "Location Requirements"...

[Page 3: Location Requirements](#)

Location Requirements Minimum Clearances WARNING Minimum - 0" Recommended - 3" 24" 36" 30" Explosion Hazard Keep flammable materials and vapors, such as 2" gasoline, away from furnace. 30" Failure to follow these instructions can result in death, explosion, or fire. 30"...

[Page 4: Ductwork Requirements](#)

All field wiring must be done in accordance with National Ductwork Requirements Electrical Code requirements, applicable requirements of UL, or local codes, where applicable. Install all conditioned air plenums, ducts and air filters in Electrical wiring, disconnect means and over current accordance with NFPA 90B Standard for the Installation of protection are to be supplied by the installer.

[Page 5: Furnace Installation Instructions](#)

FURNACE INSTALLATION INSTRUCTIONS WARNING Place Furnace in Final Location WARNING Excessive Weight Hazard Use two or more people and mechanical equipment to lift, move and install furnace. Explosion Hazard Failure to do so can result in back or other injury. Furnace must be installed and serviced by a qualified person.

[Page 6: Convert To Downflow](#)

Convert to Downflow Connect Condensate Drain The condensate drain outlet is a 3/4" threaded PVC fitting located This furnace is factory-built for horizontal airflow applications and at the bottom on the side of the furnace. A 3/4" drain line with trap may also be field-converted for downflow use.

[Page 7: Install Ductwork](#)

Install Ductwork Make Electrical Connections Install ductwork in accordance with NFPA 90B and any local codes. WARNING The use of flexible, noncombustible connectors between the main trunk ducts and the supply and return air plenums is recommended to minimize vibration transmission. Plenums must be individually sealed to furnace casing with ducts terminating inside the structure.

[Page 8](#) Line Voltage Connections For three phase units: Connect the field supply wires (L1, L2, L3) to the 3 black pigtail leads using UL listed wire nuts. WARNING Electrical Shock Hazard Electrically ground furnace. Connect ground wire to ground terminal marked "GROUND". Use copper wire for supply connection.

[Page 9: High Altitude Conversion](#)

Side entry is the usual method of routing the gas supply to the 208 Volt Conversion unit. Use the factory provided grommet to seal the opening around the gas pipe preventing rain and moisture from entering the unit around the gas pipe and reduce noise. WARNING 6"...

[Page 10: Check The Furnace Input Rate](#)

Gas Control Valve Check the Furnace Input Rate (if required) IMPORTANT: The furnace input rate must not exceed the input rating on the furnace rating plate. This furnace is equipped for rated input at manifold pressures of 3.5" W.C. for Natural gas and 11.0" W.C. for propane gas. At altitudes above 4,500 ft the furnace input rate must not exceed that on the furnace rating plate reduced by 4 percent for each 1,000 ft above sea level.

[Page 11: Complete Installation](#)

13. Turn on the gas supply at the manual gas shutoff valve. Adjust Blower Speed Multi-Speed Motor Only 14. Replace the burner access panel. 15. Set the room thermostat to the desired temperature. WARNING Manifold Pressure vs. Altitude Chart Natural Gas Manifold Heating Value Pressure...

[Page 12: Adjust Blower Speed Variable-Speed Motor Only](#)

3. Place black wire on the HIGH, MED or LOW motor speed tap, To Select the Same Speed for COOL and HEAT as desired for COOLING. 4. Place blue wire on any of the other motor speed taps for NOTE: Some models have the same speed for COOL and HEAT HEATING.

[Page 13: Measure Temperature Rise](#)

Adjusting Airflow for Variable-Speed Motor Model Cooling CFM @ .50 Static Nominal Heating
Motor ADJUST HEAT Cooling Input COOL COOL COOL COOL Setting Setting kBTU kBTU Setting A
Setting B Setting C Setting D ⅓ 24, 30 NORM 1,000 ½ NORM 1,200 1,000...

[Page 14: Sequence Of Operation](#)

SEQUENCE OF OPERATION Cooling System Heating System The cooling system is a complete factory package utilizing an air- With the proper thermostat and subbase, continuous blower cooled condenser. The compressor is hermetically-sealed and operation is possible by closing the R to G circuit. Cooling blower base-mounted with rubber-insulated hold-down bolts.

[Page 15: Controls](#)

Variable-Speed Motor Pressure Switch Units equipped with a variable-speed circulation air blower motor The pressure switch prevents the gas control valve and igniter will deliver a constant airflow within a wide range of external from being energized if there is insufficient combustion air due to static pressures.

[Page 16](#) Wiring Connection Diagram—Single Phase, Multi-Speed WARNING Contactor Electrical Shock Hazard Disconnect power before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock. Flame Sense 240V Transformer 208V Jumper (installed on some models) 208/230V-1-60...

[Page 17](#) Wiring Connection Diagram—Single Phase, Variable-Speed WARNING Comfort Alert Electrical Shock Hazard Disconnect power before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock. Flame Sense 240V 208V 208/230V-1-60...

[Page 18](#) Typical Low Voltage Connections WITHOUT ECONOMIZER WITH ECONOMIZER
THERMOSTAT THERMOSTAT OUTDOOR UNIT OUTDOOR UNIT ECONOMIZER (Not Used)

[Page 19: Assistance Or Service](#)

Whirlpool ® Home Cooling and Heating To order accessories ask for the appropriate part number listed 14610 Breakers Drive below or contact your Whirlpool ® Home Cooling and Heating Jacksonville, FL 32258 dealer. Please include a daytime phone number in your correspondence.

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