



FURNACE USER INSTRUCTIONS FOR PACKAGE GAS ELECTRIC UNITS

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GAS FURNACE SAFETY



Recognize this symbol as a safety precaution.

WARNING

If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

— Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— **WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.



Installer: Affix this manual, Installation Instructions and Warranty adjacent to appliance.

Owner: Read and keep all product literature in a safe place for future reference.

WPHI-116B

Tradewinds Distributing Company
14610 Breakers Drive
Jacksonville, FL 32258

WARNING

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

CAUTION

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

WARNING

Should overheating occur or the gas supply fail to shut off, turn off the manual gas shutoff valve external to the furnace before turning off the electrical supply.

WARNING

To avoid property damage, personal injury or death, do not use this furnace if any part of the furnace has been under water. Immediately call a qualified service technician to inspect the furnace and to replace any part of the control system and any gas control having been under water.



 **WARNING**

Product contains fiberglass wool. Disturbing the insulation in this product during installation, maintenance or repair will expose you to fiberglass wool. Breathing this may cause lung cancer. (Fiberglass wool is known to the State of California to cause cancer.) Fiberglass wool may also cause respiratory, skin and eye irritation. To reduce exposure or for further information, consult material safety data sheets available from address shown below.

 **WARNING**

This product contains or produces a chemical or chemicals which may cause serious illness or death and which are known to the State of California to cause cancer, birth defects or other reproductive harm.

 **WARNING**

To avoid possible equipment damage, personal injury, fire or death, the following instructions must be observed regarding unit location, air requirements and operating procedures.

 **WARNING**

Heating unit should not be utilized without reasonable, routine inspection, maintenance and supervision. If the building in which any such device is located will be vacant, care should be taken that such device is routinely inspected, maintained and monitored. In the event that the building may be exposed to freezing temperatures and will be vacant, all water-bearing pipes should be drained, the building should be properly winterized and the water source closed. In the event that the building may be exposed to freezing temperatures and will be vacant, any hydronic coil units should be drained as well, and, in such case, alternative heat sources should be utilized.

IMPORTANT NOTE TO THE OWNER REGARDING PRODUCT WARRANTY

To receive the 20-Year Heat Exchanger Limited Warranty and the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

Full warranty details and instructions are available at www.whirlpoolhvac.com.

Your warranty certificate is supplied as a separate document with the unit installed by your contractor. Read the limited warranty certificate carefully to determine what is and is not covered. Keep the warranty certificate in a safe place. If you are unable to locate the warranty certificate, please contact your installing contractor, or contact customer service at 1-866-944-7575 to obtain a copy.

To register your unit, go to www.whirlpoolhvac.com. Click on the Comfort Commitment™ Warranty link located at the bottom center of the home page. Next, click on the Click Here to Register Your Product link located at the top center of the page, and complete the forms in the manner indicated.

UNIT LOCATION

This unit is approved only for an outdoor installation. See the installation instructions for the required clearances to the unit. It is important that safety measures are taken in the surrounding area of the unit.

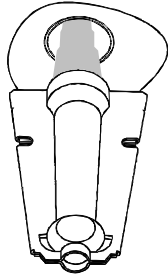
- Gutters or deflectors must be installed on the roof to prevent water from shedding on the unit.
- An area must be available to reach the unit in a clear and unobstructed path.
- The unit area and the vicinity of any other gas appliances must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- Do not store or use flammable items such as paint, varnish, or lacquer in the area.
- The combustion air supply must not be contaminated by products containing chlorine or fluorine, as they could corrode the heat exchanger. If you need further information on this subject, contact your installing dealer or another qualified servicer.
- Familiarize yourself with the controls that turn off the gas and electrical power to the unit.
- Establish a regular service and maintenance schedule to ensure efficient and safe operation of the unit.
- The unit must be placed where no runoff water from higher ground can collect in the unit.

UNIT INSTALLATION

Examine the unit installation to determine the following:

- The flue hood connector is in place and is physically sound without holes or excessive corrosion.
- The mounting pad support of the unit is sound.
- There are no obvious signs of deterioration of the unit.
- The burner flames are stable, soft and blue, (dust may cause orange tips but must not be yellow). The flames should extend directly outward from the burner without curling, floating, or lifting off. To examine, turn on the electrical power and gas. Set the room temperature to the maximum setting.

Burner



Check the burner flames for good adjustment, a stable, soft and blue flame that is not curling, floating or lifting off.

NOTE: If a strong wind is blowing, it may not be possible to perform the flame inspection.

WARNING

To avoid personal injury or fire, minimum clearances to combustible surfaces must be followed.

AIR REQUIREMENTS

WARNING

To avoid property damage, personal injury or death, sufficient fresh air for proper combustion and ventilation of flue gases must be supplied.

Since the gas/electric unit is installed completely in the outdoors, the depletion of combustion air is highly improbable. To ensure an adequate supply of combustion air, do not allow the combustion air inlet or the flue hood outlet to become blocked by leaves, snow, rubbish, or insect (wasps) nests. Never block the condensing unit section in the winter with covers. Blocking of this section would prevent an adequate amount of combustion air from reaching the furnace section.

Great care has been taken in the design and manufacture of your unit to provide for your comfort and safety. Be aware of the possibility that some problems with your unit or other gas-fired appliances could cause flue gases to be present in your building. These flue gases could include carbon monoxide.

DANGER



CARBON MONOXIDE POISONING HAZARD

Special Warning for Installation of Furnace or Air Handling Units in Enclosed Areas such as Garages, Utility Rooms or Parking Areas.

Carbon monoxide producing devices (such as an automobile, space heater, gas water heater, etc.) should not be operated in enclosed areas such as unventilated garages, utility rooms or parking areas because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area such as a garage, utility room or parking area and a carbon monoxide producing device is operated therein, there must be adequate, direct outside ventilation.

This ventilation is necessary to avoid the danger of CO poisoning which can occur if a carbon monoxide producing device continues to operate in the enclosed area. Carbon monoxide emissions can be (re)circulated throughout the structure if the furnace or air handler is operating in any mode.

CO can cause serious illness including permanent brain damage or death.

WARNING

Personal injury or death from asphyxiation can result from exposure to carbon monoxide. Carbon monoxide or CO is colorless and odorless gas produced when fuel is not burned completely or when the flame does not receive sufficient oxygen. Be aware of these air starvation signals which indicate conditions that may result in carbon monoxide or that carbon monoxide may be present:

- Headaches, nausea, dizziness, flu-like symptoms
- Excessive humidity, heavily-frosted windows, a moist, clammy feeling in the home
- Fireplace smoke will not draw up the chimney
- Flue gases will not draw up the appliance vent pipe

WARNING

To prevent property damage or serious personal injury due to fire or explosion caused by a propane gas leak, install a gas detecting warning device.

If the propane gas unit is installed in an excavated area or a confined space, a warning device is required due to:

- Propane gas is heavier than air and any leaking gas can settle in any low areas or confined spaces.
- Propane gas odorant may fade, making the gas undetectable except with a warning device.

⚠ **WARNING**

An undetected gas leak can create a danger of explosion or fire. The unit and its gas connections must be leak tested before placing in operation.

THERMOSTAT

This unit will not operate properly without a good quality, correctly installed thermostat. It is very important that the thermostat be located where it can best “sense” the average room temperature.

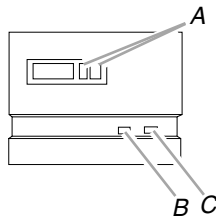
Be sure that the thermostat is not exposed to hot or cold drafts or to hot or cold spots on the wall, such as those received from outside walls, walls with pipes inside, or from openings into the attic.

No matter what type or style of thermostat is used, thermostat operation is basically the same. The most widely used types will control both heating and cooling functions and will have a fan switch with AUTO and ON settings. On AUTO, the circulating air blower will cycle on/off. When the switch is set to ON, the circulating air blower will run constantly.

IMPORTANT NOTE: To avoid the possibility of damage to the unit heat exchanger, do not set the fan switch to ON (constant fan operation) during the heating season without first consulting the installer of the unit or another qualified servicer.

There are thermostats that automatically switch from Heating to Cooling, or with night setbacks. The night setback, or multiple setback type, will lower the temperature at night or during the day when the building is unoccupied.

Typical Thermostat



A. Cool/Heat temperature control dials
B. Fan switch

C. Cool/Heat switch

System Switch	Fan Switch	Action
OFF	AUTO	None
COOL	AUTO	System only cools; fan cycles off and on.
COOL	ON	System only cools; fan runs all the time.
HEAT	AUTO	System only heats; fan cycles off and on.
HEAT	ON	System only heats; fan runs all the time.
OFF	ON	No heating or cooling; fan runs all the time.

PROPANE (LP) GAS INSTALLATIONS ONLY

For units operating on propane gas, please review the following warnings before use.

⚠ **WARNING**

To avoid property damage, personal injury or death due to explosion or fire, install a gas detecting warning device. Since the odorant in propane gas can be reduced by iron oxide (rust), a gas detecting warning device is the only reliable method to detect propane gas leaks.

OPERATING INSTRUCTIONS

⚠ **WARNING**

To avoid property damage, personal injury or death due to fire, do not remove any internal compartment covers or attempt any adjustment. Electrical components are contained in both compartments. Contact a qualified service agent at once if an abnormal flame appears.

⚠ **WARNING**

An undetected gas leak can create a danger of explosion or fire. The unit and its gas connections must be leak tested before placing in operation.

Heating Start-Up

To put your unit into operation, follow the steps listed below.

1. Close the external manual gas shutoff valve.
2. Turn off the electrical power to the unit.
3. Set the room thermostat to the lowest possible setting.
4. Remove the heat exchanger door on the side of the unit by removing the screws.
5. This unit is equipped with an ignition device which automatically lights the burner.
NOTE: Do not try to light the burner by hand.
6. Move the gas control switch to the OFF position.
NOTE: Do not use excessive force.
7. Wait 5 minutes to clear out any gas. Then check for a gas odor, including near the floor as some types of gas are heavier than air.
8. If a gas odor is detected following the 5-minute waiting period, immediately leave the building and call your gas supplier or the fire department.

9. If no gas odor is detected after 5 minutes, move or rotate the furnace's gas control valve On/Off switch to the ON position.
NOTE: The switch should turn easily. Do not use excessive force.
10. Reinstall the burner compartment door.
11. Open the external manual gas shutoff valve.
12. Turn on the electrical power to the unit.
13. Adjust the thermostat to a setting above room temperature.
14. After the burners are lit, set the thermostat to the desired temperature.

Heating Shutdown

To shut down operation, follow the steps listed below.

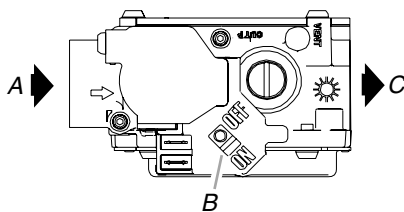
1. Set the thermostat to the lowest setting.
2. Turn OFF electrical power to the unit.
3. Remove the heat exchanger door on the side of the unit by removing the screws.
4. Move the gas control switch to the OFF position.
NOTE: Do not use excessive force.
5. Close the external manual gas shutoff valve.
6. Reinstall the heat exchanger door.
7. If cooling and/or air circulation is desired, turn ON the electrical power.

Cooling Operation

Cooling operation may be obtained as follows:

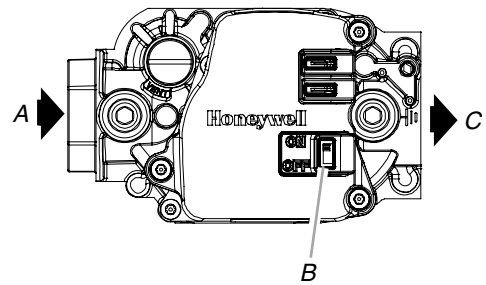
1. Place the room thermostat selector switch in the COOL position (or AUTO, if available, and if automatic changeover from cooling to heating is desired).
2. Set the room thermostat to the desired temperature.
3. If the cooling system does not energize, wait 5 minutes. The system start-up may be delayed by the short-cycle protector feature of the ignition control board. Check the manual reset devices on the rollout limit switch, as described in this manual.

Gas Control Valve—White-Rodgers 36G22



A. Inlet
B. On/Off selector switch
C. Outlet

Gas Control Valve—Honeywell Model VR8215—Single Stage



A. Inlet
B. On/Off selector switch
C. Outlet

SAFETY CIRCUITS

A number of safety circuits are employed to ensure safe and proper unit operation. These circuits serve to control any potential safety hazards and, provide inputs in the monitoring and diagnosis of abnormal operation.

WARNING

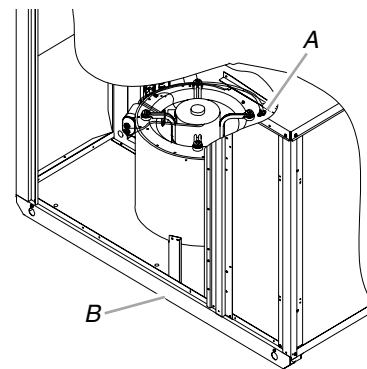
If the secondary limit control should open, the reason must be determined before the control resets. The electrical power must be disconnected before any panel is removed or maintenance is performed.

Secondary Limit Control

The secondary limit control is located on the blower housing and monitors blower compartment temperatures. It is a normally-closed (electrically), automatic-reset, temperature-activated sensor. This limit guards against overheating as a result of insufficient conditioned air passing over the heat exchanger. It de-energizes the gas control valve if the blower fails.

NOTE: If the power to the unit is interrupted during the heating cycle, it may cause the secondary limit control to trip. Once the blower compartment temperature drops below the limit reset temperature, the limit will automatically reset.

Secondary Limit Control



A. Secondary limit control
B. Back of unit

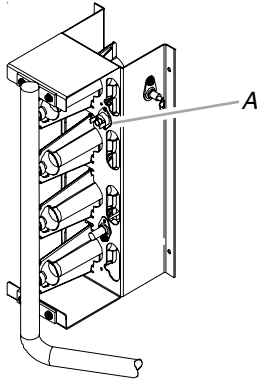
Rollout Limit Control

WARNING

The cause of the rollout protection device opening must be investigated by a qualified servicer before any attempt is made to reset the rollout protection device and turn the unit back on. The electrical power must be disconnected before either front panel is removed.

The rollout limit is a normally-closed (electrically), manual-reset, temperature-activated sensor. It is mounted on the burner bracket and monitors the burner flame. If there is an improper draw of burner flames into the heat exchanger, the rollout limit will detect it and shut off gas flowing to the burners. Contact a qualified servicer to check the unit before resetting this device.

Rollout Protection on Burner Bracket



A. Rollout protection

Compressor Protection Devices

This gas/electric package unit includes components which are designed to protect the compressor against abnormal operating conditions.

WARNING

To prevent personal injury or death, always disconnect the electrical power before inspecting or servicing the unit. Since all of the compressor protection devices reset automatically, the contactor and outdoor fan may be energized when reset.

WARNING

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: The operation of the indoor blower will not be affected by any compressor protection devices.

If, during a call for cooling, the indoor fan runs and circulates room temperature air while the compressor and outdoor fan do not operate:

1. Wait 5 minutes, as a protection device may be holding the compressor off.
2. Check the room thermostat to see if it is correctly set.
3. If the room thermostat is correctly set, call a qualified servicer to determine if one of the compressor protection devices has opened.

Short-Cycle Protector

A short-cycle protector is built into the ignition control. Each time the compressor is off for less than 3 minutes, the short-cycle protector will delay compressor start-up for up to 3 minutes. This protects the compressor from improper operation.

NOTE: These units are not designed to provide mechanical cooling at outdoor temperatures below 50°F (10°C). If low ambient cooling is needed, consult a qualified servicer.

Igniter

The unit has an electronic ignition device which lights the burners automatically.

NOTE: Never try to light the burners by hand.

Induced Draft Blower

This unit has an induced draft blower to exhaust combustion products.

Indoor Air Circulator Blower

Keep the blower access door panel in place except for inspection and maintenance.

ROUTINE MAINTENANCE

If you perform maintenance on the unit yourself, remember that certain mechanical and electrical knowledge, skills and tools are required to perform unit maintenance. Personal injury or death may result if you are not properly trained. You should call your installing dealer or place of purchase if you are uncertain about your ability to perform maintenance.

WARNING

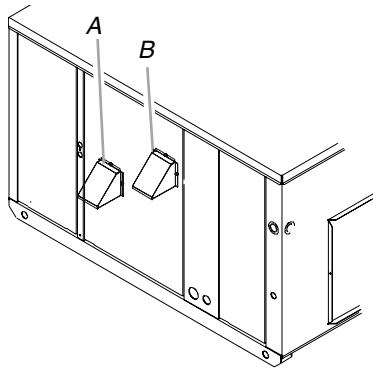
To avoid personal injury or death due to explosion or fire, the following procedures must be followed exactly in sequence before inspecting the unit:

1. Turn Off gas by closing external gas shutoff valve to the unit.
2. Turn Off electrical power by opening unit power disconnect.
3. If the unit has been operating, wait 15 minutes for it to cool.

Annual Inspection

Your package unit should be inspected by a qualified installer, or service agency at least twice every year. This check should be performed before the heating and cooling seasons begin. This will ensure that adequate combustion air is being drawn and the vent system is working properly. Particular attention should be paid to the following items. Repair as necessary.

- Check physical support of the unit. Check that it is sound without any sagging, cracks, or gaps, around the base.
- Check for obvious signs of deterioration of the unit.
- Flue hood and combustion air inlet. Check for blockage (wasp nest, etc.) and corrosion.



A. Combustion air inlet
B. Flue hood

- Return air connection. Check for physical soundness and ensure that the connection is firmly sealed to the package unit casing.
- Heat exchanger. Check for corrosion and/or obstructions within the heat exchanger passageways.
- Burners. Check for proper ignition, burner flame, and flame sense.
- Wiring. Check electrical connections for tightness and/or corrosion. Check wires for damage.
- Filters. Check that filters are clean and in the proper placement in the unit or duct system.
- Louvers. Inspect air inlet louvers inside the heat exchanger compartments. Ensure the area is clean and free of dirt and debris.

Replacing or Cleaning the Filter

IMPORTANT NOTE: Never operate unit without a filter installed as dust and lint will build up on internal parts resulting in loss of efficiency, equipment damage and possible fire.

A return air filter is not supplied with this unit; however, there must be a means of filtering the return air. The filter(s) may be located in the return air duct(s). Consult with your installing dealer for the actual location of the return air filter(s) in your unit.

A dirty filter is the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every 2 months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter. Dirty permanent filters should be washed with water, thoroughly dried and sprayed with a filter adhesive before being reinstalled. Filter adhesives may be found at many hardware stores. Permanent filters should last several years. However, should one become worn or uncleanable, it should be replaced.

When installing a new filter or reinstalling an old one, always make certain the airflow arrows on the filter point in the proper direction.

Clean Outside Coil—Qualified Servicer Only

WARNING

To avoid personal injury or death due to electrical shock, disconnect the electrical switch before cleaning the coil(s).

The coil, with the outside air flowing over it, should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of leaves, grass, seeds and debris.

Condenser, Evaporator and Induced Draft Motors

Bearings on the air circulating blower motor, condenser motor and the combustion fan motor are permanently lubricated. No additional oiling is required.

Compressor

The compressor motor is hermetically sealed and does not require additional oiling.

SAFETY LABELS

NOTE: If safety labels are missing or illegible, contact the installing dealer.

To obtain the proper safety labels, the model and serial number of the unit must be supplied. These numbers are recorded on the nameplate of the unit. For your convenience, record this information here:

Model Number: _____

Serial Number: _____

WARNING

If not installed, operated and maintained in accordance with manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness and which are known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING

Heating units should not be utilized without reasonable, routine inspection, maintenance and supervision. If the building in which any device is located will be vacant, care should be taken that such device is routinely inspected, maintained and monitored in the event that the building may be exposed to freezing temperatures and will be vacant. All water-bearing pipes should be drained. The building should be properly winterized, and the water source closed. In the event that the building may be exposed to freezing temperatures and will be vacant, any hydronic coil units should be drained as well and, in such case, alternative heat sources should be utilized.

WARNING

**HAZARD OF ELECTRIC SHOCK
DISCONNECT THE ELECTRIC POWER BEFORE SERVICING.**

AVERTISSEMENT

**DANGER DE CHOC ÉLECTRIQUE
DECONNECTER LE CIRCUIT D'ALIMENTATION ÉLECTRIQUE
AVANT L'ENTRETIEN.**

ADVERTENCIA

**PELIGRO DE CHOQUE ELÉCTRICO
DESCONECTE LA ENERGÍA ELÉCTRICA ANTES DEL
MANTENIMIENTO.**



FOR YOUR SAFETY READ BEFORE OPERATING



WARNING



If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the user's information manual provided with this furnace. For assistance or additional information, consult a qualified installer, service agency or the gas supplier

- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- B. BEFORE OPERATING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- C. Use only your hand to push in or turn the gas control lever. Never use tools. If the lever will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.

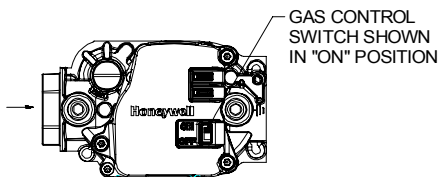
- D. Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been underwater.

This furnace must be installed in accordance with the manufacturer's instructions and local codes. In the absence of local codes, follow the National Fuel Gas Code, ANSI Z223.1.

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to next step.
5. Move the gas control switch or knob to "ON."
6. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
7. Remove control access panel.
8. Move the gas control switch or knob to "OFF."
9. Replace control access panel.
10. Turn on all electric power to the appliance.
11. Set thermostat to desired setting.
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas company.

WARNING: If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel combustion which can cause death or serious illness and which are known to the State of California to cause cancer, birth defects or other reproductive harm. This product contains fiberglass insulation. Fiberglass insulation contains a chemical known by the State of California to cause cancer.



TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Remove control access panel.
4. Move the gas control switch or knob to "OFF." Do not force.
5. Replace control access panel.

FOR YOUR SAFETY Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

ASSISTANCE OR SERVICE

If you need further assistance, you can write to the below address with any questions or concerns:

Tradewinds Distributing Company, LLC
14610 Breakers Drive
Jacksonville, FL 32258

Please include a daytime phone number in your correspondence.
Or call toll free: 1-866-944-7575.