## Owner's Operation and Installation Manual for the



## RHFE-201FA

# Energysaver Gas Direct Vent Wall Furnace



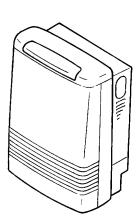


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WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference.

This appliance may be installed as an OEM installation in a manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home construction and Safety Standard, Title 24 CFR, Part 3280,* in the United States, or the *Mobile Home Standard, CAN/CSA Z240 MH Series,* in Canada. This appliance is only for use with types of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

This equipment is made for use as a heater in a residential building. Do not use in locations where there are spray, chemicals, or large amounts of dust. Using hair treatment products containing silicon may cause ignition error, flame extinction, or other malfunctions.

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## **Consumer Safety Information**

## Safety Definitions



This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

## Safety Behavior and Practices

## **WARNING**

- Keep the area around the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- · Never store liquid propane containers indoors.
- Do not use this appliance if any part has been under water. 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 under water.
- This appliance is equipped with a three-prong plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the ground prong from this plug.
- Any alteration to the appliance or its controls can be dangerous.
- Do not operate appliance with the panels removed, cracked or broken. Replacement of the panels should be done by a licensed or qualified service person.

## **A** CAUTION

- Do not block the warm air discharge. Do not allow anyone to sleep directly in front of the appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance.
- Clothing or other flammable material should not be placed on or near the appliance.

- Any safety screen or guard removed for servicing must be replaced prior to operating the appliance.
- · Do not insert items into the louvers.
- Do not spray aerosols near the appliance while it is operating. Most aerosols contain butane gas which is flammable.
- Do not unplug the appliance while it is operating or while the fans are on.

### Safety Features

- Overheat: The appliance will automatically shut down when the appliance exceeds a predetermined temperature.
- Flame Failure: The appliance will automatically shut down if the burner flame is extinguished.
- **Power Failure:** The appliance will cut off the gas if it loses electrical power.
- Power Surge Fuse: A glass fuse on the PC board protects against overcurrent. If the fuse blows then all indicator lamps will be off.
- Spark Detector: The appliance automatically shuts down if there is an abnormal spark at ignition.
- Fusible Link: In case the overheat feature prevents the temperature from rising then the fusible link will break shutting off the appliance.

## **Specifications**

## Appliance Specifications

Application	For manufactured home (USA only) or mobile home or residential installation convertible for use with natural gas and liquefied petroleum gases when provision is made for the simple conversion from one gas to the other.
General Description	Forced combustion, forced convection, flued gas furnace
Operation	Push button electronic
Gas Connection	1/2 in female NPT
Gas Control	Electronic
Burners	Stainless steel Bunsen burner
Temperature Control	Electronic thermostat
Ignition System	Electronic spark ignition
Flue System	The flue must be terminated to atmosphere with only flue components listed with the appliance's certification. Warranty will be voided if non listed components are installed.
Humidifier Tray	Capacity - 1.5 pints (700 cc)
Electrical Connection	AC 120V, 60 Hz, 42 watts
Weight	39.4 lbs (17.9 kg)
Noise Level	27-34 dB
Fan CFM output	Low 48.3 - High 70.6
AFUE Rating	Natural Gas: 80.6% Propane: 83%

Rinnai is continually updating and improving products. Therefore, specifications are subject to change without prior notice.

The efficiency rating of this appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

	Natural Gas	Propane Gas
Minimum supply gas pressure	4.5 in (114 mm) W.C.	8.0 in (203 mm) W.C.
Maximum supply gas pressure	10.5 in (267 mm) W.C.	13.0 in (330 mm) W.C.
Manifold test pressure-Low	0.6 in (15 mm) W.C	0.9 in (24 mm) W.C.
Manifold test pressure-High	3.3 in (85 mm) W.C.	6.0 in (152 mm)W.C.
BTU/hour input	Low 3000 -	High 8000
BTU/hour output	Low 2400 -	High 6400

### **Features**

- Clean Heating Forced Flue Type
- Easy Operation One-Touch Ignition
- Sensible Temperature Control Feature
- Comfortable Room Temperature Control and Display
- Warm Air Outlet at Floor Level (keeps your feet warm)
- Function Lock
- Room Temperature Setting Memory
- Clean the Air Filter Indicator Lamp

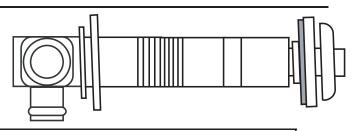
- Energy Saving Economy Setting
- Humidifier Tray
- Air Flow Directional Louvers
- Direct Vent Easily Installed
- Proportional Heating Variable Capacity
- Hush! Quiet Operation
- Modern Design Minimizes Floor Space Requirements
- Failure Message Display

## Flue Manifolds

See the installation instructions for the parts list of the vent kit.

The "A" Vent Kit is included with the appliance.

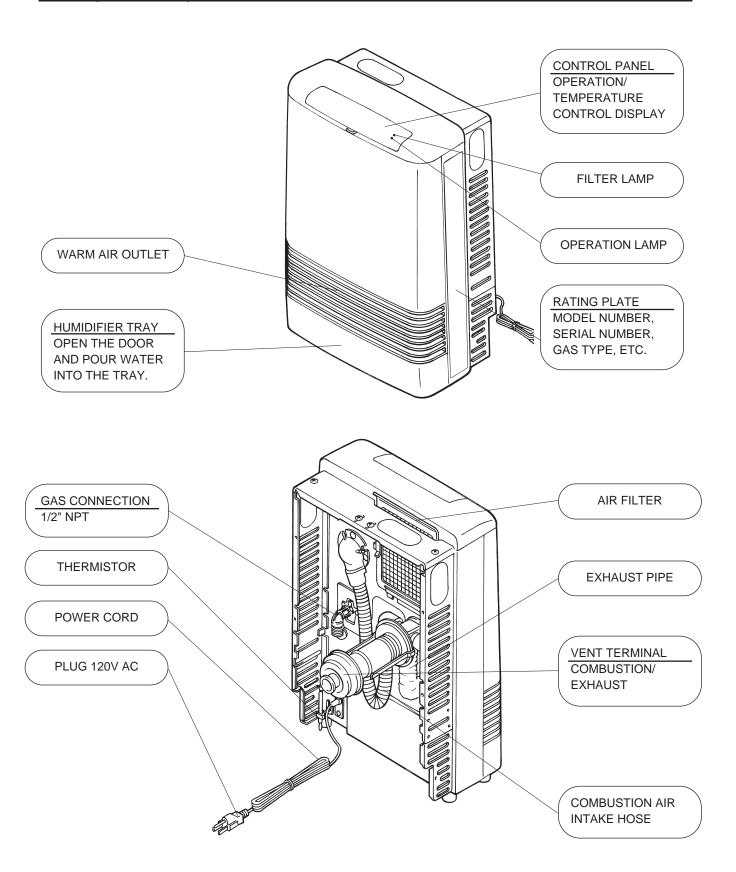
The following flue manifold sizes are available:

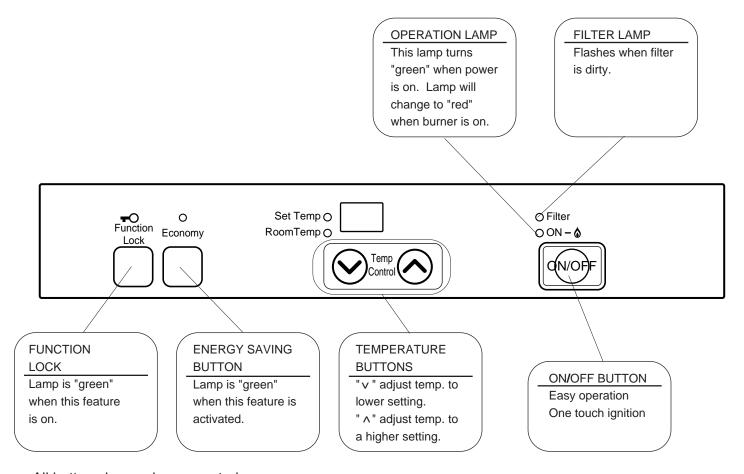


Name	Kit No.	fits walls
S Vent Kit	FOT-150	3 - 4 1/2 in (75 - 115 mm)
A Vent Kit	FOT-151	4 1/2 - 9 1/2 in (115 - 240 mm)
B Vent Kit	FOT-152	9 1/2 - 15 3/4 in (240 - 400mm)
C Vent Kit	FOT-153	15 3/4 - 23 5/8 in (400 - 600 mm)
D Vent Kit	FOT-154	23 5/8 - 31 1/2 in (600 - 800 mm)

## **Operating Instructions**

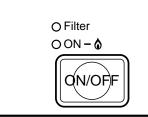
## Getting to know your new RHFE-201





All buttons beep when operated.

### **Turning the heater ON**



When you press the ON/OFF button, the LED display will illuminate, the spark will ignite the main burner and the combustion fan will begin to run.

This heater has an automatic ignition system. When the main burner has lit, the combustion lamp will glow red, and the spark will stop.

If ignition does not occur after 15 seconds, the appliance will automatically turn off and fault code 11 will be displayed on the control panel. This may occur when using the appliance for the first time or if it has not been used for a while. Try operating the appliance again.

There may be a smell of burning dust or oil the first time the heater is lit or when the heater has been out of operation for a long time.

The appliance may make noises after ignition or when it is turned off. This is normal and is due to the thermal expansion or contraction of its components.

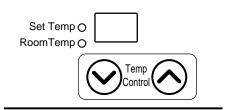
## **Turning the heater OFF**

Press the ON/OFF button. Do not turn off by unplugging at the power outlet



The fan will continue to run for a short time to prevent the internal components from overheating.

### **Adjusting the Temperature**



The temperature setting and the room temperature are indicated by the L.E.D. display on the control panel. When the appliance is turned on the temperature setting will be displayed for 10 seconds. The display will then show the room temperature. The default temperature setting is 72°F.

To change the temperature setting press one of the temperature control buttons once. The "Set Temp" should light up and the display will show the current temperature setting. Continue to press the control buttons until the desired temperature setting is reached. After 10 seconds the display will return to showing the room temperature.

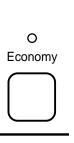
The thermostat automatically modulates the burner and the fan to maintain the temperature setting.

The temperature settings available are:

- LO burner is on minimum combustion
- 60° F 80° F in two degree increments
- HI burner is on maximum combustion.

### **Economy Mode**

Pressing the Economy button will cause the appliance to go into Economy Mode and the green lamp will glow. This results in the temperature setting being reduced by 2° F, 30 minutes after the room temperature has reached the temperature setting. After another 30 minutes the temperature setting

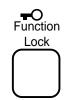


is reduced another 2° F. This could result in the temperature setting being reduced by a maximum of 4° F. The intent of this mode is to save energy.

#### **Function Lock**

This feature locks the buttons to prevent unintended operation.

Press the Function Lock button to activate and the lamp will glow. Pressing and holding the Function Lock button for two seconds will disengage the function lock.



If the Function Lock is engaged while the unit is operating, all buttons will be disabled except for the ON/OFF button.

If the Function Lock is engaged while the unit is off, then all buttons will be disabled.

#### **Adding Water to the Humidifier**

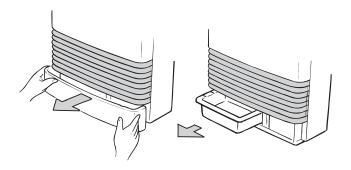


Do not remove the bottom trim panel or the humidifier tray while warm air is flowing.

Warm air is humidified when it passes over the water in the tray.

Remove the bottom trim panel below the louvers by pulling on both sides. Pull the tray out and fill with water. Push the tray back in and attach the bottom trim panel.

During operation a small amount of condensation is produced in the flue system and drains into the humidifier tray.



### **Adjusting Air Flow Direction**



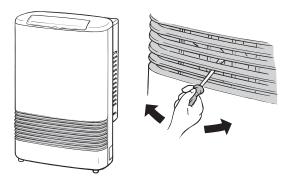
Do not adjust the air flow louvers while warm air is flowing.

The vertical louvers may be adjusted to move the air flow more to the right or to the left.

Use a screw driver or similar object to bend each louver to the desired position.

Do not bend repeatedly (no more than 5 times) or else the louver will break.

The horizontal louver (which determines the vertical air flow direction) is fixed and cannot be adjusted.



## **Sensible Temperature Control**

The sensible temperature control feature allows comfortable heating which matches the conditions in the room.

Based on the information collected by the room temperature thermistor when the heating starts, the heating capacity is automatically adjusted to achieve a comfortable heating effect and to reach the temperature setting quickly.

#### Maintenance

## **A** CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Repairs should be performed by a qualified service technician. The appliance should be inspected annually by a qualified service technician. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners, and circulating air passage ways of the appliance be kept clean.

Any screen or guard removed for servicing the appliance must be replaced prior to operating the appliance. Clean as follows:

- 1. Turn heat off. Allow to cool for one hour.
- Remove the front panel by removing six screws.
- 3. Use pressurized air to remove dust from the main burner, heat exchanger, and fan blades.
- 4. Use soft dry cloth to wipe cabinet.

Do not use wet cloth or spray cleaners on the burner.

The flue should be inspected annually for blockages or damage.

Motors are permanently lubricated and do not need periodic lubrication. Keep fan and motor free of dust and dirt by cleaning annually.

Verify proper operation after servicing.

#### Care of Exterior

Dampen soft cloth with warm water. Wring water out well and wipe the unit.

Do not use volatile substances such as benzene or thinners. They cause fading of the paint and deformation of the resin.

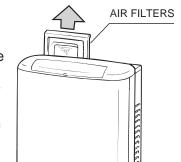
#### **Snow Accumulation**

Keep the area around flue terminal free of snow and ice. The appliance will not function properly if the intake air or exhaust is impeded by obstructions.

#### **Filters**

Dirty filters reduce the air flow and the appliance's ability to produce heat. The filters should be cleaned frequently during the heating season. If the filters become blocked the filter indicator lamp will flash red. Eventually the appliance will turn off and display fault code 14 on the control panel display.

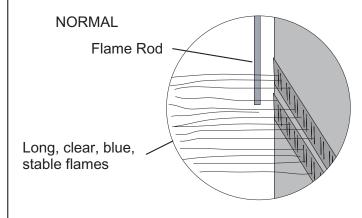
To clean the filters, the appliance should be OFF and cool. Remove the filter and clean it using a soft dry cloth or vacuum. If the filter is greasy wash with warm soapy water, rinse, and dry completely.

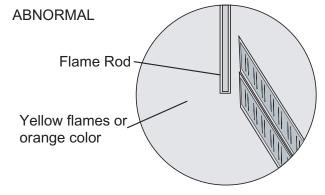


### **Visual Inspection of Flame**

Check that the burner flames are operating normally. The flame can be seen through the circular window through the louvers.

When operating normally the burner flame should appear as long, clear, blue, stable, streaks. Yellow flames or an orange color is abnormal and maintenance is required.





Before making a service call please check the following:

#### ■ At Ignition:

Power Failure.

Heater does not operate. Is the heater plugged in? Have the fuses or breaker blown at the switch board? Is there a power failure? Is the air filter blocked? Is anything blocking the outlet for the hot air? Is the flue blocked? Warm air does not flow when the burner The fan is started automatically after a short delay. lights. This is to allow the heat exchanger to warm up, helping to avoid cold draughts. Smoke or strange smells are produced This is caused by grease or oil and dust on the heat exchanger and will stop on the first trial light up after installation. after a short time. Sharp clicking noises at ignition, or when This is simply expansion noise from the heat exchanger. unit cuts down on the thermostat, or goes out. **During Combustion:** Clunking noise when the thermostat This is the sound of the solenoid gas valves opening and closing. operates. Unit is not heating room. Is the air filter blocked? Is the set temperature high enough? Is the warm air outlet blocked by anything? Are the doors and windows of the room closed? Was the appliance correctly sized for the space? Air filter is blocked or the louvers are Allow heater to cool, clean air filter, operate again. blocked or obstructed. Heater will not re-ignite after overheating. Even after unit has cooled down, the heater does not ignite again. Repair is necessary. Contact your local agent or Rinnai for a Service call. When the unit is turned off. Convection fan continues to run after This is to remove the residual heat from the heat exchanger. The fan will stop turning OFF. when the heater cools down. Other Points: Steam is discharged from the flue terminal. High efficiency appliances tend to discharge water vapor on cold days. This is normal. Unit cuts off without apparent reason. Check whether filters are blocked. Dirty filters will cause the heater to overheat.

Switch OFF, then ON again when power is restored to re-set controls.

## Troubleshooting

Problem	No ON indicator	Burner doesn't ignite	Unusual combustion	Combustion stops during operation	Smell of gas	Noisy ignition	Takes too long to warm the room	Remedy
Not Plugged In	•	•						Plug In
Power Failure	•	•		•				Push On/Off button to attempt restart after power is restored.
(Initial Installation) Air In Gas Pipe		•						Purge air (Installer)
Gas Filter Blocked		•	•				•	Service Call
Miss Ignition	•	•						Service Call
Flue terminal obstructed			•	•		•		Clear obstruction
Flue manifold not connected						•		Service Call
Louver obstructed				•			•	Clear obstruction
Air filter blocked				•			•	Clean filter
Gas Escape					•			Service Call
Function Lock Set		•						Cancel Function Lock
Gas turned off at meter, tank, or valve.	•	•						Turn gas on

### Fault Codes

If there is a malfunction the appliance may shut down as a safety precaution and display a fault code to assist in diagnosing the problem. The fault code will flash in the display on the control panel. When making a service call, this code will assist with diagnosing the fault.

You may be able to clear the fault code by turning the heater off and then on again. If the fault code remains or returns on the next operation, contact Rinnai or your nearest service agent and arrange for a service call.

CODE DISPLAYED	FAULT	REMEDY	
11	Ignition failure	Check gas is turned ON. Service call if repeated.	
12	Flame failure	Check gas is turned ON. Service call if repeated.	
14	Overheat	Clean filter Service call if repeated. [1]	
16	Room overheat	Lower room temperature to less than 104°F(40°C).	
31	Room Temperature	Service call.	
32	Sensor faulty	Service call.	
33	Overheat Temperature	Service call.	
34	Sensor faulty	CONVICTION COMM.	
53	Sparker failure	Service call.	
61	Combustion fan failure	Service call.	
70	Faulty ON/OFF switch	Service call.	
71	Faulty solenoids	Service call.	
72	Faulty Flame Rod	Service call.	
73	Communication Error	Turn heater OFF, then ON again.	
49	Sensor breakdown	Service Call.	
99	Flue block	Check around flue terminal [2]	

<sup>[1]</sup> Remove any obstructions. The flue needs to be kept clear to expel exhaust gases. If the appliance fails to operate contact a qualified service agency.

<sup>[2]</sup> If the fusible link needs replacement, it must be done by a qualified service agency. In addition, the cause of the overheat needs to be determined. The fusible link is a one use safety device that breaks to shut off the appliance.

## **Installation Instructions**

### General Instructions

## **A** WARNING

Do not use substitute materials.

Use only parts certified with the appliance.

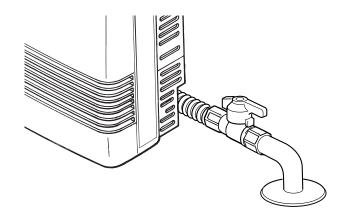
- A qualified service technician should install the appliance and inspect it before use.
- If you move, check the gas type in your new area. The local gas authority will be able to advise on local regulations.
- The installation must conform with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*.
- A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the standard for Manufactured Home Installations, ANSI/ NCSBCS A225.1, or the standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.
- The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.
- Appliance input ratings are based on sea level operation and need not be changed for operation up to 2000 ft (609.9 m) elevation.
   For operation at elevations above 2000 ft (609.9), manufactured to specified deration conditions for Canada and the United States.
   Refer to the Conversion Manual for high altitude installations.
- The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).
- The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

- If the flooring is carpet, tile, or other combustible material other than wood, then the appliance must be installed on a metal or wood panel extending the full width and depth of the appliance.
- This appliance discharges a large volume of warm air next to the floor. Any particles in the air such as cigarette smoke could cause discoloration in carpet. The warm air flow could discolor nylon carpets containing dyes or vinyl surfaces. To prevent discoloration of the floor covering a mat may be placed under the appliance which extends about 30 inches (750 mm) in front of it.
- This appliance is not designed to built in.
- This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used. If a conversion of the unit is needed, conversions must be performed by a qualified service provider at the owner's expense.
- This appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- Rinnai suggests that a dedicated electrical circuit with a 120VAC, 60 hz, 10 amp power source be used.
- Two 1/8 in test plugs are provided for testing of manifold differential pressure. They are located on the modulating gas valve and on the burner manifold.
- The appliance should be correctly sized for the space it required to heat.
- Follow the installations instructions and those in Care and Maintenance for adequate combustion and ventilation air.
- The flow of combustion and ventilation air shall not be obstructed.
- Clearances to access the appliance during servicing are 2 inches (50 mm) from the sides, 40 inches (1 m) from the front, and 9 inches (225 mm) from the top.

#### Gas Connection

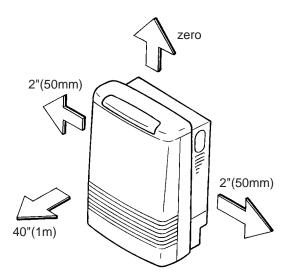
- The gas supply line shall be gas tight, sized and so installed as to provide a supply of a gas sufficient to meet the maximum demand of the heater without loss of pressure.
- A shut off valve and appliance connector valve should be installed in the upstream of the gas line to permit servicing.
- Flexible pipe and any appliance connector valve used for gas piping shall be types approved by nationally recognized agencies.
- Any compound used on the threaded joint of the gas piping shall be a type which resists the action of liquefied petroleum gas.
- Check the gas supply pressure immediately upstream at a location provided by the gas company. Supplied gas pressure must be within the limits shown in the Specifications section.
- After completion of gas pipe connections all joints including the heater must be checked for gas tightness by means of leak detector solution, soap and water, or an equivalent nonflammable solution, as applicable. (Since some leak test solutions, including soap and water, may cause corrosion or stress cracking,

- the piping shall be rinsed with water after testing, unless it has been determined that the leak test solution is non-corrosive.)
- Refer to an approved pipe sizing chart if in doubt about the size of the gas line.
- Install manual gas cut-off valve so that it can be accessed for easy operation. Do not conceal manual cut-off valve behind back spacer.



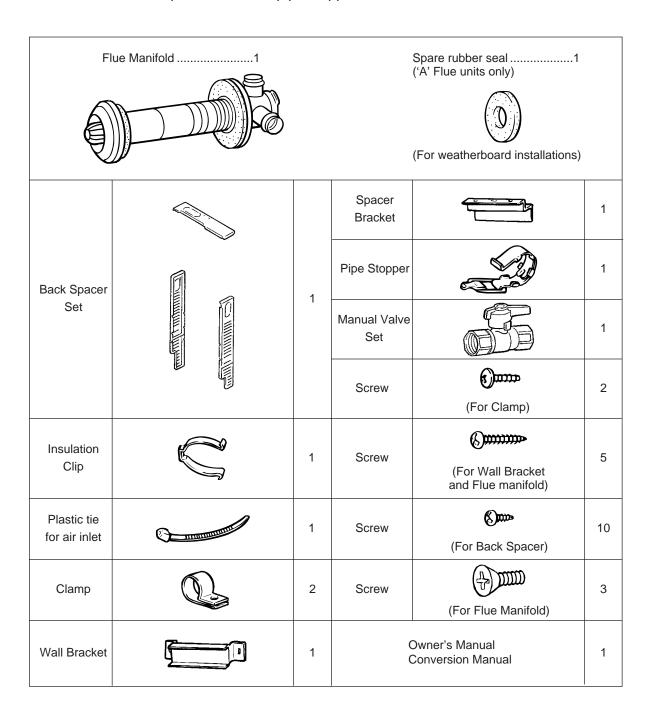
## Clearances to Combustibles

When determining where to install the appliance the clearances to combustibles shown in the figure must be followed. Also refer to the Safety Behaviors and Practices section. The clearance to combustibles from the top is zero.



The following items are included with the appliance.

- Owner's Operation and Installation Manual
- Conversion Manual
- Conversion Kit
- "A" Vent Kit
- Manual valve set, backspacers, screws, pipe stoppers, and hardware listed below



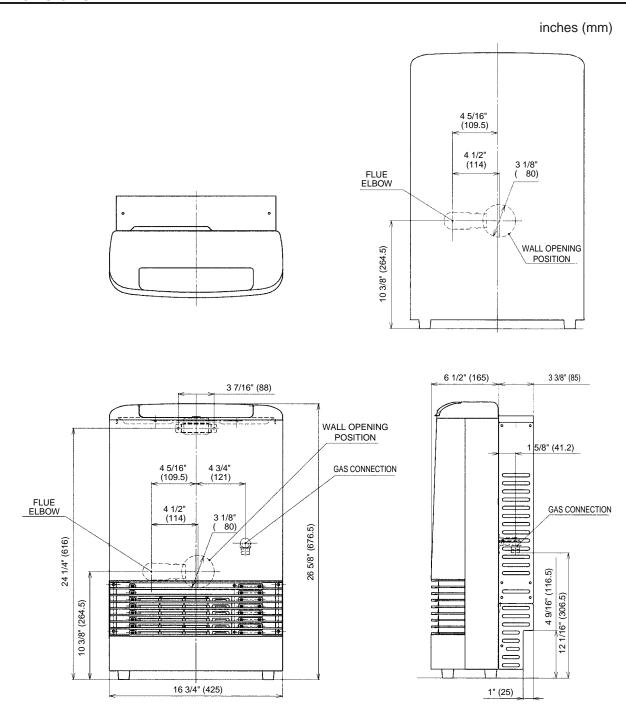
## **Drilling Flue Hole**

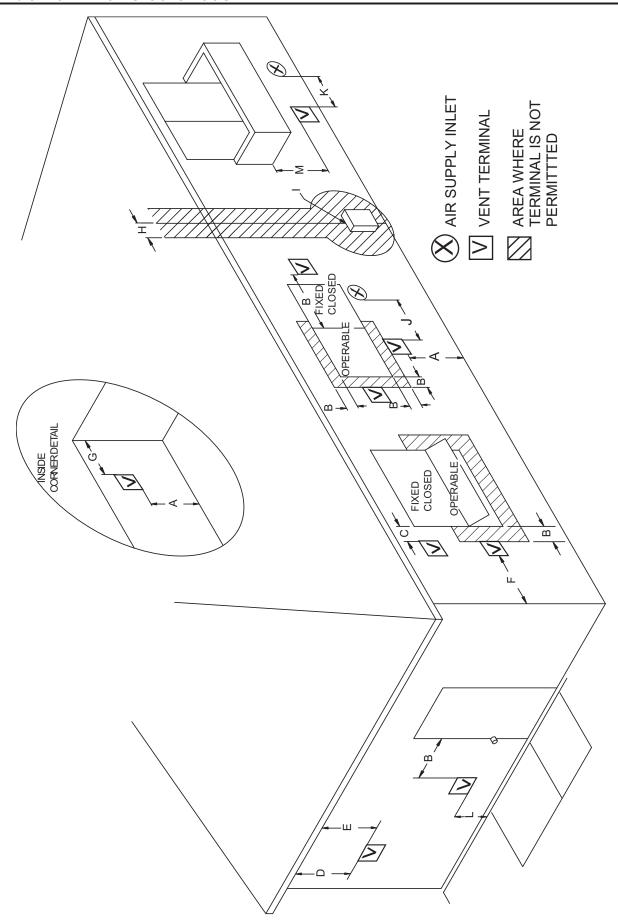
Check for water and gas pipes as well as electric cables. Drill the flue hole using a 3 1/8 inch (80 mm) drill. The center of the hole must be located exactly at the specified point.

See diagram. For weatherboard walls, drill through the center of the weatherboard from the outside first and then through the plasterboard. A template is provided.

A maximum of one elbow (FOT-158) may be used to raise the flue manifold's position by 6 in (154 mm) relative to the appliance. Rotate the flue elbow 90° to a vertical position and attach the FOT-158 so that it opens toward the center of the appliance. If the FOT-158 is used then do not use the template. The center of the wall opening will be 16 1/2 in (418.5 mm) above the base of the appliance.

### **Dimensions**





12 inches (30 cm) to 24 inches (60 cm) to 3 feet (91 cm) above within 10 feet (3 m) 12 inches (30 cm) 20 inches (50 cm) **US Installations** 6 inches (15 cm) 6 inches (15 cm) non-flammables horizontally flammables \* \* Canadian Installations 3 feet (91 cm) within a height 15 feet (4.5 m) 24 inches (60 cm) to 12 inches (30 cm) to egulator assembly 12 inches (30 cm) 20 inches (50 cm) above the meter/ 6 inches (15 cm) 6 inches (15 cm) 6 feet (1.83 m) non-flammables feet (91 cm) 7 feet (2.13 m) flammables \* paved driveway located on public property extended above meter/regulator assembly Clearance to a mechanical air supply inlet inlet to building or the combustion air inlet Clearance under veranda, porch, deck, or Clearance to window or door that may be Clearance to permanently closed window Clearance to service regulator vent outlet horizontal distance of 2 feet (61 cm) from Clearance above grade, veranda, porch, Clearance to nonmechanical air supply Clearance to each side of center line Vertical clearance to ventilated soffit, Clearance above paved sidewalk or located above the terminal within a Clearance to unventilated soffit the center line of the terminal Description Clearance to outside corner Clearance to inside corner to any other appliance deck, or balcony balcony opened Ref ⋖ Ω  $\circ$ Ш ш G I  $\checkmark$ ≥ \_

Z223.1/NFPA 54 or CSA veranda, porch, deck, or erminate directly above a minimum of two sides balcony is fully open on B149.1, clearances are n accordance with local he requirements of the driveway that is located nstallation codes and serves both dwellings family dwellings and a sidewalk or paved between two single For clearances not beneath the floor. specified in ANSI Permitted only if A vent shall not gas supplier. \*

Clearance to opposite wall is 24 inches (60 cm) for Canada and US.

#### Flue Manifold Installation

- The flue manifold must exhaust to the outside.
   Do not exhaust into other rooms.
- The flue is not designed to be positioned under floors or below the heater.
- This appliance can only be used with one of the five types of Rinnai flue kits. The flue kits and their dimensions are listed in the Specifications section.
- Refer to the Flue Terminal Clearances section.

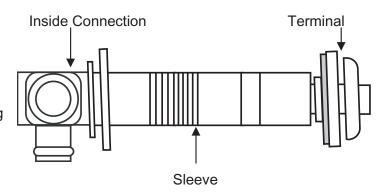
#### 1. Disassemble the flue manifold

The flue consists of 3 parts:

- sleeve
- inside connection
- · outside terminal

Disassemble the flue manifold by first pulling out the inside connection. To remove the outer terminal pull and release the two internal ties and then pull out the outer terminal.

Clearance to combustibles for the sleeve and flanges is zero inches.



#### 2. Adjust the sleeve length

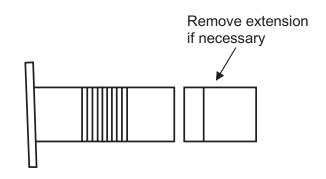
Measure wall thickness through previously drilled 3 1/8 inch (80 mm) hole.

The end of the sleeve should protrude 3/16 - 3/8 inch (5-10 mm) from the outside wall.

The sleeve is threaded for adjustment. Adjust the sleeve length to wall thickness plus 3/16 - 3/8 inch (5-10 mm).

NOTE: Do not extend beyond the red line.

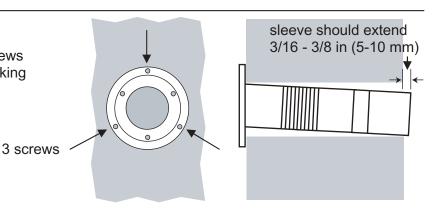
For other than the "S" type flue manifold, if a shorter length is necessary an extension can be removed. Cut the plastic and remove the extension.



#### 3. Attach the sleeve

Attach to the inside wall using 3 screws arranging the flange so that the marking "TOP" is at the top.

The flange is offset 2° to allow the condensate drain to the outside.

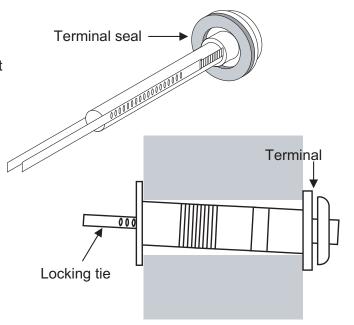


### Flue Manifold Installation

#### 4. Install the Terminal

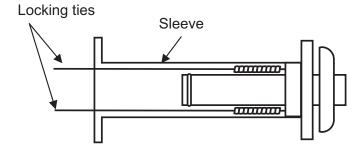
Check that the terminal seal is in place. For weatherboard walls, add the second seal next to the terminal seal to compensate for weather board angle.

From the outside insert the terminal into the sleeve with the marking "TOP" at the top. The left hand side locking tie should be marked "LEFT".



#### 6. Lock the ties

Pulling hard on the left and right hand ties, clip the ties over the notches inside the sleeve. You should be able to pull the ties 2 or 3 notches past the starting point. Cut the ties, leaving about 3/4 inch (20 mm) past the notch. Bend the ties back into the sleeve and parallel to the wall.

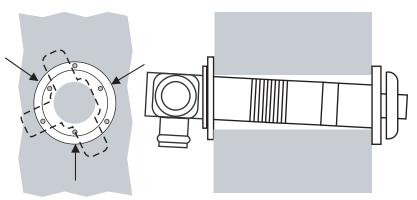


#### 7. Insert Inside Connection Assembly

Push the assemble into the terminal tube, ensuring that the seal is in place on the inner tube.

Attach the inside connection with 3 screws. The inner connection can still be turned to install the screws.

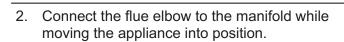


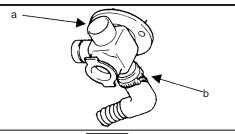


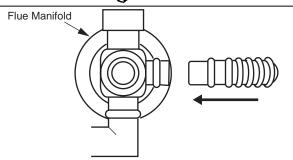
## Connecting the Appliance

1. Attach the air inlet hose to the flue manifold on either inlet position "a" or "b".

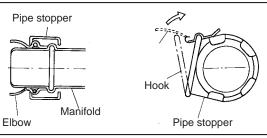
The unused inlet is plugged with the rubber cap supplied on the manifold.



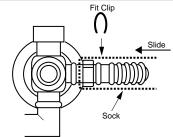




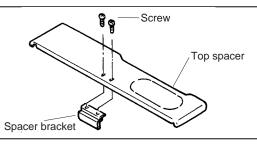
3. Fit the pipe stopper over the connection between the flue elbow and the manifold. Engage the hook and rotate it until it snaps against the body of the clamp.



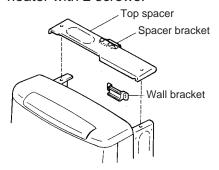
4. Slide the insulation sleeve up to the flue manifold and slip the securing clip over the sleeve as shown.

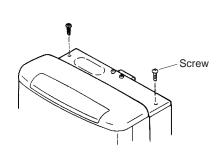


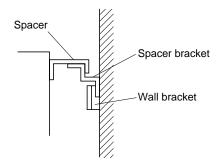
5. Install the bracket on the rear of the top spacer by tightening 2 screws.



6. Install the wall bracket with two screws. Install the top spacer by clipping the spacer into the wall brackets and attaching it to the heater with 2 screws.







### FOR YOUR SAFETY READ BEFORE OPERATING

## **A** WARNING

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

- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do <u>not</u> try to light the burner by hand.
- 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.

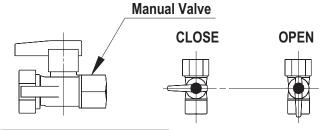
#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighborís phone. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob 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.
- D. Do not use this appliance if any part has been under water. 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 under water.

#### **OPERATING INSTRUCTIONS**

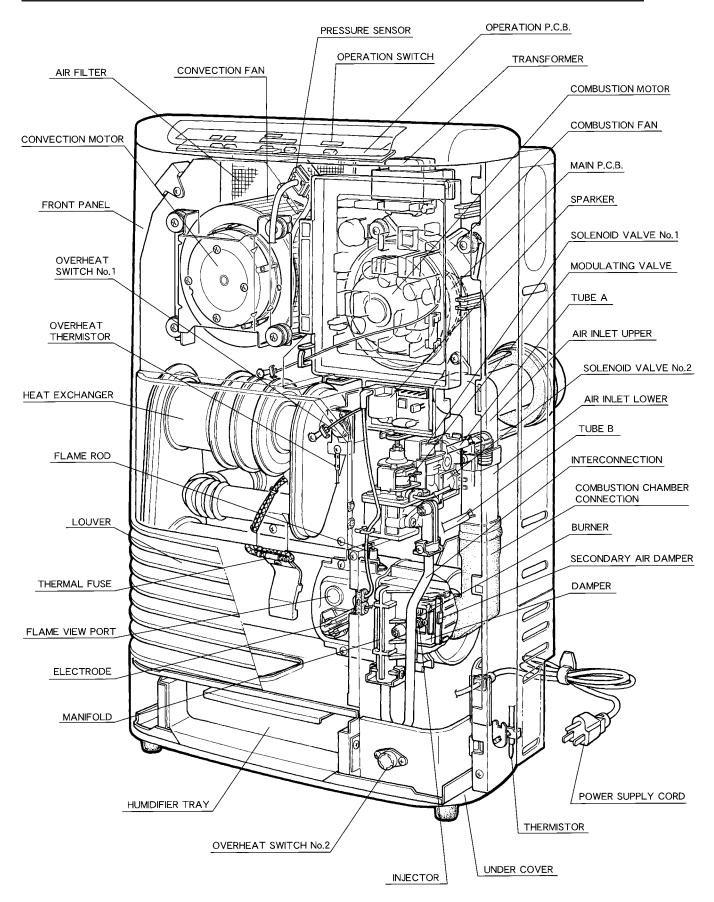
- 1. **STOP!** Read the safety information above.
- 2. Set the thermostat to lowest setting.
- 3. Turn off all electric power to the appliance using the ON/OFF button.
- 4. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- 5. Locate the manual gas valve on the side of the heater. Turn the manual valve clockwise to the full OFF position.
- 6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow"B"in the safety information above. If you don't smell gas, go to the next step.
- Turn the manual gas valve counterclockwise to the full ON position.
- 8. Turn on all electric power to the appliance using the ON/OFF button.
- 9. Set the thermostat to desired setting.
- 10. Combustion indicator glows red when the burner is lit and flashes when the burner fails to ignite. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier. See manual for additional information.

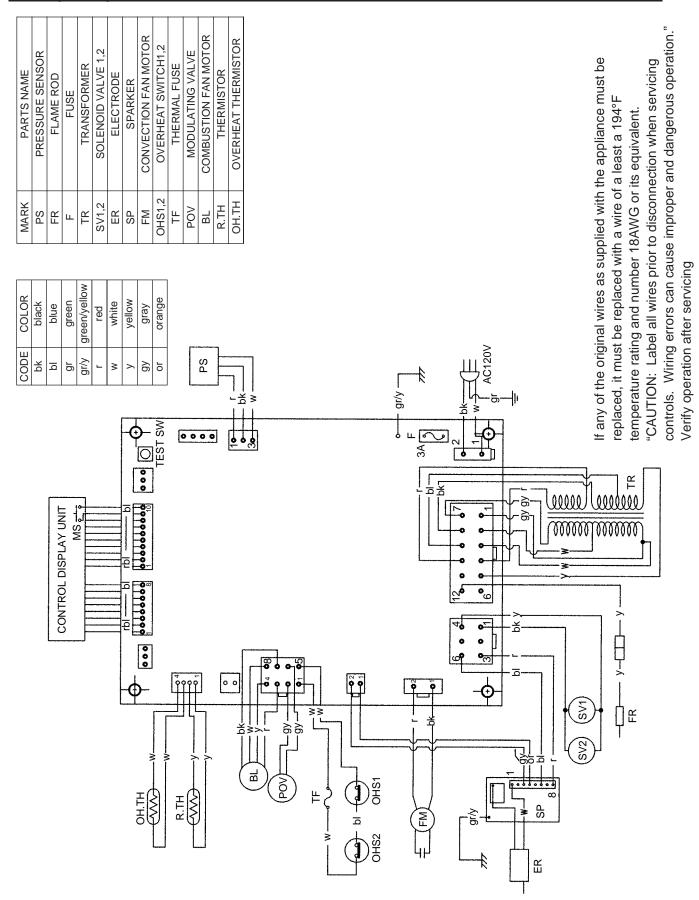


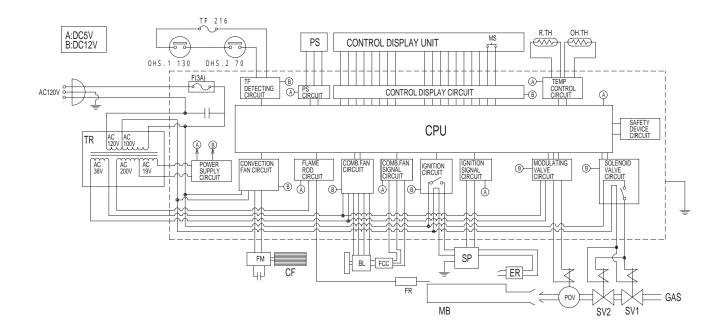
## TO TURN OFF GAS TO APPLIANCE

- 1. Set the thermostat to lowest setting.
- Turn off all electric power to the appliance using the ON/OFF button.
- 3. Locate the manual gas valve on the side of the heater. Turn the manual valve clockwise to the full OFF position.

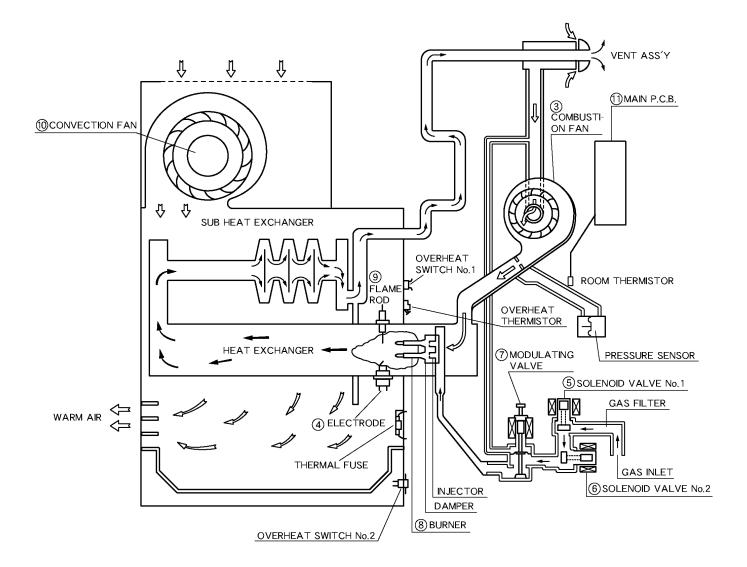
NOTE: The fan will continue to operate until the appliance is cool. Do not turn the appliance off by unplugging it from the wall. Keep burner and control compartment clean. See installation and operating instructions.





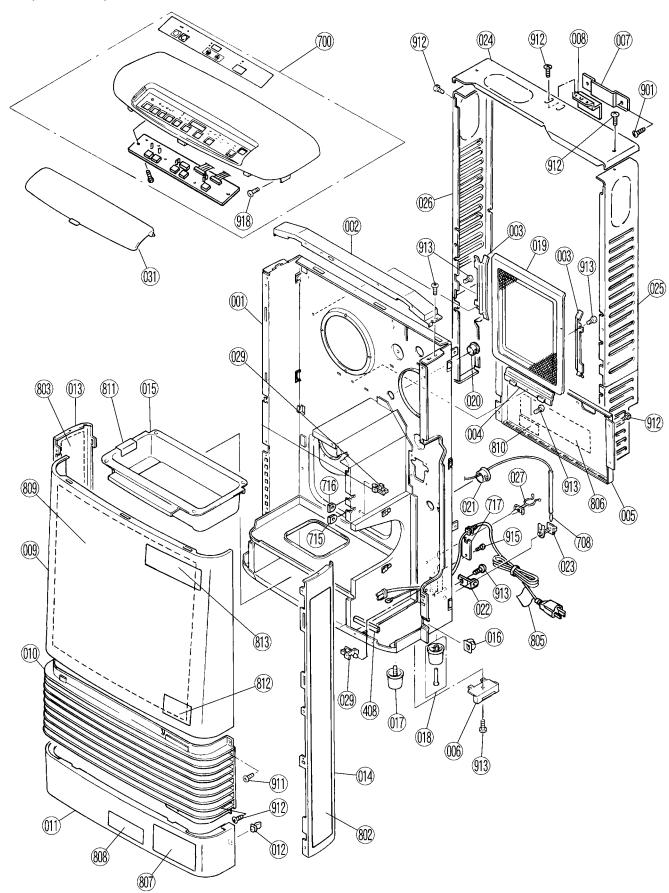


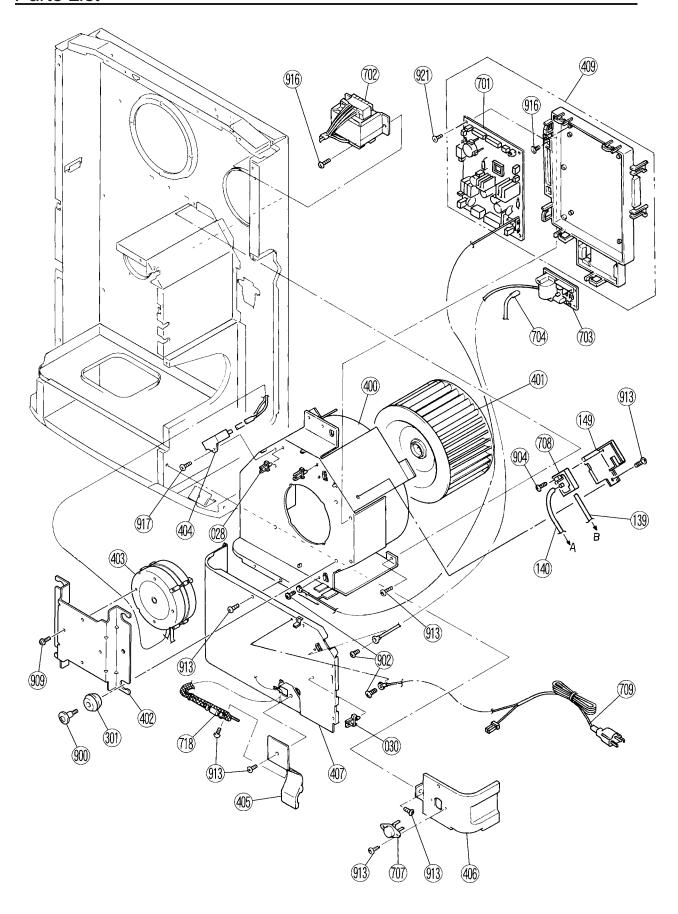
MARK	PARTS NAME
MS	MAIN SWITCH
R.TH	THERMISTOR
TF	THERMAL FUSE
F	FUSE
ER	ELECTRODE
POV	MODULATING SOLENOID VALVE
TR	TRANSFORMER
FR	FLAME ROD
CF	CONVECTION FAN
FM	CONVECTION FAN MOTOR
SP	SPARKER
OH.TH	OVER HEAT THERMISTOR
SV1~2	SOLENOID VALVE 1~2
BL	COMBUSTION FAN MOTOR
FCC	FAN CONTROL CIRCUIT
CPU	CENTRAL PROCESSING UNIT
MB	MAIN BURNER
PS	PRESSURE SENSOR
OHS . 1~2	OVERHEAT SWITCH 1~2

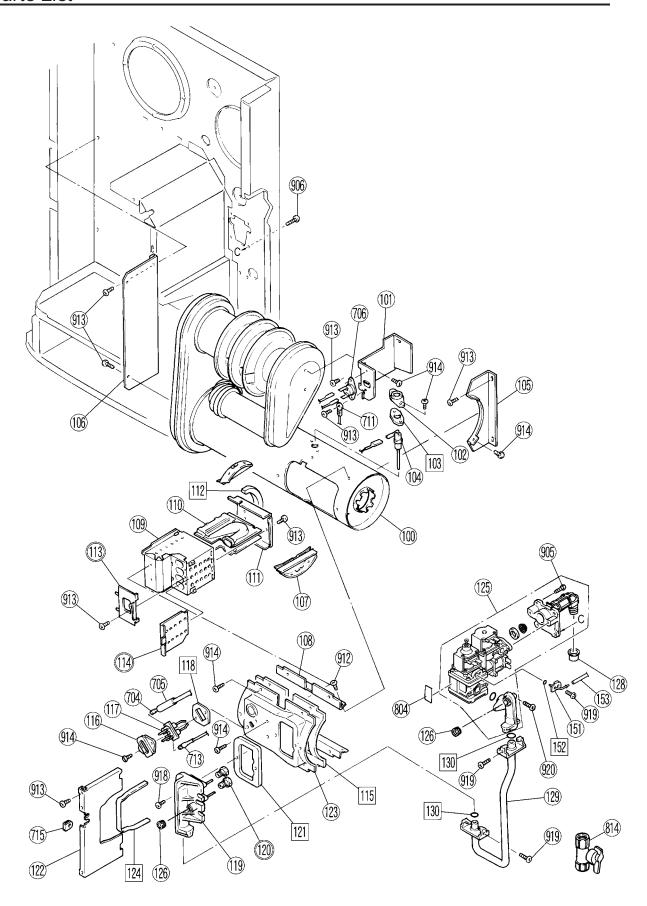


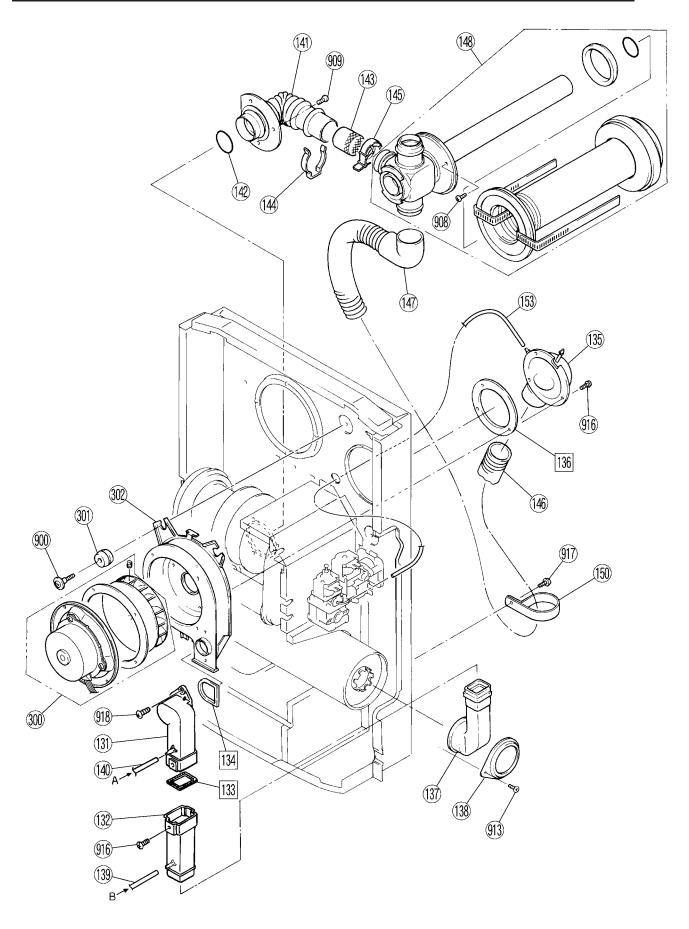
- **←** GAS
- COMBUSTION AIR
- ← CONVECTION AIR

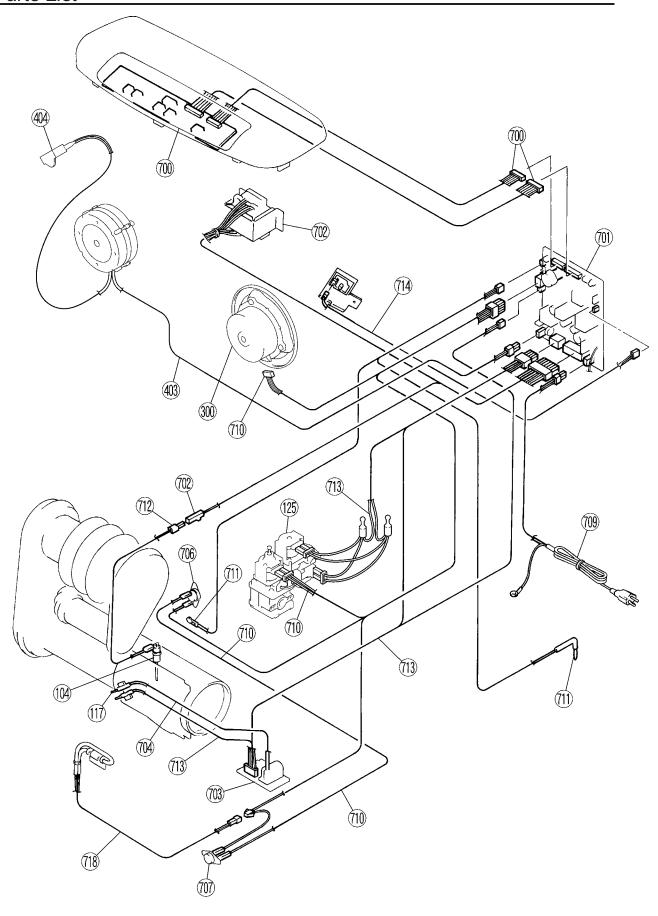
For replacement parts call Rinnai at 1-800-621-9419.











No.	PART No.	PART NAME	QTY'
001	201F-2016	REAR PANEL ASS'Y	1
002	308F-316	TOP PLATE SUPPORTER	1
003	556F-313	FILTER BRACKET	2
004	308F-312	FILTER BRACKET	1
005	308F-324-2	HEAT SHIELD PANEL B	1
006	308F-454	BRACKET FIXER	2
007	308F-9077	WALL BRACKET	1
008	RHF300-152	SPACER BRACKET	1
009	308F-401-3	FRONT PANEL	1
010	201F-2028-1	AIR OUTLET	1
011	308F-408-3	UNDER COVER ASS'Y C	1
	CP-90379	STRIKE	2
013	308F-402-3	SIDE PANEL LEFT C	1
014	308F-403-3	SIDE PANEL RIGHT C	1
015	308F-326	HUMIDIFIER TRAY	1
016	CP-90380	LATCH	2
017	554F-422	FRONT LEG	2
018	554F-417	LEG	2
019	308F-462-3	AIR FILTER ASS'Y C	1
	CP-90326-2	BUSH	1
021	CP-90326	BUSH	1
022	557F-1012	BACK SPACER BRACKET	2
	RC-312-628	THERMISTOR HOLDER	1
024	308F-457-3	BACK SPACER TOP	1
025	308F-2050-1	BACK SPACER RIGHT ASS'Y	1
026	308F-2050-2	BACK SPACER LEFT ASS'Y	1
027	CP-90125-2	CABLE CLIP	2
028	CP-90203-1	CLAMP	2
029	CP-90107-25	WIRE CLIP	2
030	CP-90107-4	WIRE CLIP	1
031	308F-520-9	OPERATION COVER	1
100	308F-130-2	HEAT EXCHANGER ASS'Y B	1
101	308F-216	OHS BRACKET	1
102	RHF-250-038	ELECTRODE PLATE	1
	554F-148	FLAME ROD PACKING	1
	1001F-104-3	FLAME ROD	1
105	556F-215	COMBUSTION CHAMBER FIXER	1
106	308F-214	HEAT EXCHANGER BRACKET	1
107	556F-135	SEAL PLATE	2
108	556F-131	FLANGE	2
109	308F-205-2	BURNER BOX ASS'Y	1
110	B3A2-4	BURNER ASS'Y	2
111	556F-225-2	BURNER SUPPORTER ASS'Y	1
112	556F-211	BURNER BOX PACKING	1
113	308F-209	PRIMARY DAMPER	1
114	556F-208	SECONDARY AIR DAMPER	1
115	556F-210	PACKING	1
116	554F-114	ELECTRODE MOUNTING PLATE	1
117	556F-510	ELECTRODE	1
118	554F-147	ELECTRODE PACKING	1
119	308F-202-2	MANIFOLD	1
120	AU129-210	INJECTOR	2
121	556F-203-2	MANIFOLD PACKING	1

122   308F-318	No.	PART No.	PART NAME	QTY
123   556F-224   BURNER BOX FITTING PLATE   1   124   554F-421-2   HEAT EXCHANGER PACKING   1   125   PC-120   GAS CONTROL ASS'Y   1   1   126   AU39-965   BLIND SCREW   2   128   3022-0363   INLET CAP   1   1   1   1   1   1   1   1   1				_
124   554F-421-2				-
125				
126				
128   3022-0363   INLET CAP   1   1   1   1   1   1   1   1   1				
129   308F-221   CONNECTING TUBE   1   1   1   1   1   1   1   1   1				
130         M10B-1-10         O RING         2           131         308F-2028         AIR INLET UPPER         1           132         201F-2025         AIR INLET LOWER         1           133         308F-2027         AIR INLET PACKING         1           134         308F-612         AIR INLET PACKING         1           135         553F-340-2         AIR INLET PACKING         1           136         RHF300F-79         AIR INLET PACKING         1           137         308F-611         COMBUSTION CHAMBER CONNECTION         1           138         556F-408         CONNECTION PIPE BRACKET         1           139         1004F-2052-1         TUBE A(CLEAR)         1           140         1004F-2052-3         TUBE C(BLACK)         1           141         308F-137         EXHAUST ELBOW ASS'Y         1           144         302F-1103-2         COVER         1           1443         302F-1206         INSULATION CLIP         1           1445         305F-0017         PIPE STOPPER         1           1446         RHF300-52         INLET ELBOW         1           147         RHF300-52         INLET ELBOW         1				
131   308F-2028   AIR INLET UPPER   1   132   201F-2025   AIR INLET LOWER   1   1   133   308F-2027   AIR INLET PACKING   1   1   1   1   1   1   1   1   1				
132   201F-2025   AIR INLET LOWER   1   133   308F-2027   AIR INLET PACKING   1   1   134   308F-612   AIR INLET PACKING   1   1   135   553F-340-2   AIR INLET B   1   1   136   RHF300F-79   AIR INLET PACKING   1   137   308F-611   COMBUSTION CHAMBER CONNECTION   1   138   556F-408   CONNECTION PIPE BRACKET   1   140   1004F-2052-1   TUBE A(CLEAR)   1   1   141   308F-137   EXHAUST ELBOW ASS'Y   1   1   142   RHF300-200-e   ORING   1   1   1   1   1   1   1   1   1	_			_
133   308F-2027   AIR INLET PACKING   1   134   308F-612   AIR INLET PACKING   1   135   553F-340-2   AIR INLET B   1   1   136   RHF300F-79   AIR INLET PACKING   1   137   308F-611   COMBUSTION CHAMBER CONNECTION   1   138   556F-408   CONNECTION PIPE BRACKET   1   139   1004F-2052-1   TUBE A(CLEAR)   1   140   1004F-2052-3   TUBE C(BLACK)   1   141   308F-137   EXHAUST ELBOW ASS'Y   1   142   RHF300-200-e   O RING   1   143   302F-1103-2   COVER   1   145   305F-0017   PIPE STOPPER   1   1   1   1   1   1   1   1   1				
134   308F-612				
135   553F-340-2   AIR INLET B				
136 RHF300F-79				
137   308F-611   COMBUSTION CHAMBER CONNECTION   1   138   556F-408   CONNECTION PIPE BRACKET   1   139   1004F-2052-1   TUBE A(CLEAR)   1   140   1004F-2052-3   TUBE C(BLACK)   1   141   308F-137   EXHAUST ELBOW ASS'Y   1   142   RHF300-200-e   ORING   1   143   302F-1103-2   COVER   1   144   302F-1206   INSULATION CLIP   1   1   145   305F-0017   PIPE STOPPER   1   1   146   RHF300-51-8   FLEXIBLE HOSE   1   147   RHF300-52   INLET ELBOW   1   148   431F-1900   VENT ASS'Y   1   1   149   308F-2038   SENSOR BRACKET   1   150   CP-90378   CLAMP   2   151   556F-417   BACK PRESSURE PIPE ASS'Y   1   152   M10B-1-4   ORING   1   153   556F-415-2   TUBE B   300   201F-2031   COMBUSTION FAN MOTOR ASS'Y   1   301   308F-8273   CUSHION RUBBER   7   302   308F-231   CONVECTION FAN CASING B   1   400   308F-231   CONVECTION FAN CASING B   1   401   308F-231   CONVECTION FAN CASING B   1   402   201F-2037   CONVECTION MOTOR ASS'Y   1   404   201F-2037   CONVECTION MOTOR ASS'Y   1   405   308F-320   HEAT SHIELD PANEL   1   406   308F-325   OHS No.2 BRACKET   1   407   308F-320   HEAT SHIELD PANEL   1   409   308F-2035   P.C.B. TOTAL ASS'Y   1   700   308F-2035   HIGH TENSION CORD   1   700   508F-2035   HIGH TENSION CORD   1   700   65-01189   OVER HEAT SWITCH   1   1				
138   556F-408   CONNECTION PIPE BRACKET   1   139   1004F-2052-1   TUBE A(CLEAR)   1   140   1004F-2052-3   TUBE C(BLACK)   1   141   308F-137   EXHAUST ELBOW ASS'Y   1   142   RHF300-200-e   ORING   1   143   302F-1103-2   COVER   1   144   302F-1206   INSULATION CLIP   1   145   305F-0017   PIPE STOPPER   1   146   RHF300-51-8   FLEXIBLE HOSE   1   147   RHF300-52   INLET ELBOW   1   148   431F-1900   VENT ASS'Y   1   149   308F-2038   SENSOR BRACKET   1   150   CP-90378   CLAMP   2   151   556F-417   BACK PRESSURE PIPE ASS'Y   1   152   M10B-1-4   ORING   1   153   556F-415-2   TUBE B   1   300   201F-2031   COMBUSTION FAN MOTOR ASS'Y   1   301   308F-8273   CUSHION RUBBER   7   7   302   308F-434   COMBUSTION FAN CASING ASS'Y   1   400   308F-232-2   CONVECTION FAN CASING B   1   401   308F-331   CONVECTION FAN CASING B   1   402   201F-2037   CONVECTION MOTOR ASS'Y   1   404   201F-2037-2   CAPACITOR   1   405   308F-313   TF BRACKET   1   406   308F-325   OHS No.2 BRACKET   1   407   308F-320   HEAT SHIELD PANEL   1   408   CP-90157a-75   EDGING   1   409   308F-2030-2   P.C.B. TOTAL ASS'Y   1   700   308F-2040   TOP PLATE TOTAL ASS'Y   1   701   ED-499   P.C.B. ASS'Y   1   702   ET-258   TRANSFORMER   1   704   308F-2035   HIGH TENSION CORD   1   705   S022-0344   SLEEVE   1   706   ES-01171   OVER HEAT SWITCH   1   707   ES-01189   OVER HEAT SWITCH   1				
139   1004F-2052-1   TUBE A(CLEAR)   1     140   1004F-2052-3   TUBE C(BLACK)   1     141   308F-137   EXHAUST ELBOW ASS'Y   1     142   RHF300-200-e   O RING   1     143   302F-1103-2   COVER   1     144   302F-1206   INSULATION CLIP   1     145   305F-0017   PIPE STOPPER   1     146   RHF300-51-8   FLEXIBLE HOSE   1     147   RHF300-52   INLET ELBOW   1     148   431F-1900   VENT ASS'Y   1     149   308F-2038   SENSOR BRACKET   1     150   CP-90378   CLAMP   2     151   556F-417   BACK PRESSURE PIPE ASS'Y   1     152   M10B-1-4   O RING   1     153   556F-415-2   TUBE B   3     300   201F-2031   COMBUSTION FAN MOTOR ASS'Y   1     301   308F-8273   CUSHION RUBBER   7     302   308F-434   COMBUSTION FAN CASING ASS'Y   1     400   308F-232-2   CONVECTION FAN CASING B   1     401   308F-231   CONVECTION FAN CASING B   1     402   201F-2036   MOTOR BASE   1     403   201F-2037   CONVECTION MOTOR ASS'Y   1     404   201F-2037   CONVECTION MOTOR ASS'Y   1     405   308F-313   TF BRACKET   1     406   308F-325   OHS NO.2 BRACKET   1     407   308F-320   HEAT SHIELD PANEL   1     408   CP-90157a-75   EDGING   1     409   308F-2030-2   P.C.B. TOTAL ASS'Y   1     700   308F-2035   TRANSFORMER   1     701   ED-499   P.C.B. ASS'Y   1     702   ET-258   TRANSFORMER   1     703   EI-161   SPAKKER   1     704   308F-2035   HIGH TENSION CORD   1     705   SO-01189   OVER HEAT SWITCH   1				
140         1004F-2052-3         TUBE C(BLACK)         1           141         308F-137         EXHAUST ELBOW ASS'Y         1           142         RHF300-200-e         O RING         1           143         302F-1103-2         COVER         1           144         302F-1206         INSULATION CLIP         1           145         305F-0017         PIPE STOPPER         1           146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           401         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           401         30	-			_
141         308F-137         EXHAUST ELBOW ASS'Y         1           142         RHF300-200-e         O RING         1           143         302F-1103-2         COVER         1           144         302F-1206         INSULATION CLIP         1           145         305F-0017         PIPE STOPPER         1           146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-334         CONVECTION FAN CASING ASS'Y         1           401         308F-231         CONVECTION FAN CASING B         1           403			,	
142         RHF300-200-e         O RING         1           143         302F-1103-2         COVER         1           144         302F-1206         INSULATION CLIP         1           145         305F-0017         PIPE STOPPER         1           145         305F-0017         PIPE STOPPER         1           144         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           144         31F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           403         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           403         308F-231         CONVECTION FAN CASING B         1           403         201	-		` '	
143         302F-1103-2         COVER         1           144         302F-1206         INSULATION CLIP         1           145         305F-0017         PIPE STOPPER         1           146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         3           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           403         308F-232-2         CONVECTION FAN CASING B         1           401         308F-2331         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         <				
144         302F-1206         INSULATION CLIP         1           145         305F-0017         PIPE STOPPER         1           146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           401         308F-232-2         CONVECTION FAN CASING B         1           401         308F-233-1         CONVECTION MOTOR ASS'Y         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           405         308F-313         TF BRACKET         1				_
145         305F-0017         PIPE STOPPER         1           146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         ORING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           401         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2037         CONVECTION MOTOR ASS'Y         1           403         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRCKET         1           406				
146         RHF300-51-8         FLEXIBLE HOSE         1           147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           401         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN CASING B         1           402         201F-2036         MOTOR BASE         1           403         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           407         308F-325         OHS NO.2 BRACKET         1           407				_
147         RHF300-52         INLET ELBOW         1           148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-8273         CONBUSTION FAN CASING ASS'Y         1           401         308F-232-2         CONVECTION FAN CASING B         1           401         308F-2331         CONVECTION FAN CASING B         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           407         308F-325         OHS NO.2 BRACKET         1				_
148         431F-1900         VENT ASS'Y         1           149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           407         308F-325         OHS No.2 BRACKET         1           408         CP-90157a-75         EDGING         1           409	-			_
149         308F-2038         SENSOR BRACKET         1           150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS NO.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1				
150         CP-90378         CLAMP         2           151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS No.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           409         308F-2040         TOP PLATE TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1				
151         556F-417         BACK PRESSURE PIPE ASS'Y         1           152         M10B-1-4         O RING         1           153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS No.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           <				
152       M10B-1-4       O RING       1         153       556F-415-2       TUBE B       1         300       201F-2031       COMBUSTION FAN MOTOR ASS'Y       1         301       308F-8273       CUSHION RUBBER       7         302       308F-434       COMBUSTION FAN CASING ASS'Y       1         400       308F-232-2       CONVECTION FAN CASING B       1         401       308F-231       CONVECTION FAN CASING B       1         402       201F-2036       MOTOR BASE       1         403       201F-2037       CONVECTION MOTOR ASS'Y       1         404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         704       308F-2035       HIGH TENSION CORD       1         705 </td <td></td> <td></td> <td></td> <td></td>				
153         556F-415-2         TUBE B         1           300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS No.2 BRACKET         1           407         308F-325         OHS No.2 BRACKET         1           408         CP-90157a-75         EDGING         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           704         308F-2035         HIGH TENSION CORD         1				
300         201F-2031         COMBUSTION FAN MOTOR ASS'Y         1           301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS No.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           408         CP-90157a-75         EDGING         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           70				
301         308F-8273         CUSHION RUBBER         7           302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS NO.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           408         CP-90157a-75         EDGING         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           705         3022-0344         SLEEVE         1           706         E				
302         308F-434         COMBUSTION FAN CASING ASS'Y         1           400         308F-232-2         CONVECTION FAN CASING B         1           401         308F-231         CONVECTION FAN         1           402         201F-2036         MOTOR BASE         1           403         201F-2037         CONVECTION MOTOR ASS'Y         1           404         201F-2037-2         CAPACITOR         1           405         308F-313         TF BRACKET         1           406         308F-325         OHS NO.2 BRACKET         1           407         308F-320         HEAT SHIELD PANEL         1           408         CP-90157a-75         EDGING         1           409         308F-2030-2         P.C.B. TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           705         3022-0344         SLEEVE         1           706         ES-01171         OVERHEAT SWITCH         1           707         E				
400       308F-232-2       CONVECTION FAN CASING B       1         401       308F-231       CONVECTION FAN       1         402       201F-2036       MOTOR BASE       1         403       201F-2037       CONVECTION MOTOR ASS'Y       1         404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         701       508F-2040       TOP PLATE TOTAL ASS'Y       1         701       508F-2040       TOP PLATE TOTAL ASS'Y       1         702       508F-2040       TOP PLATE TOTAL ASS'Y       1         702       508F-2040       TOP PLATE TOTAL ASS'Y       1         703       508F-2040       TOP PLATE TOTAL ASS'Y       1         704       308F-2035       TRANSFORMER       1         705       3022-0344       SLEEVE       1         706       509F-2035       HIGH TENSION CORD       1 <td< td=""><td></td><td></td><td></td><td></td></td<>				
401       308F-231       CONVECTION FAN       1         402       201F-2036       MOTOR BASE       1         403       201F-2037       CONVECTION MOTOR ASS'Y       1         404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS NO.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
402       201F-2036       MOTOR BASE       1         403       201F-2037       CONVECTION MOTOR ASS'Y       1         404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
403       201F-2037       CONVECTION MOTOR ASS'Y       1         404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				_
404       201F-2037-2       CAPACITOR       1         405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
405       308F-313       TF BRACKET       1         406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
406       308F-325       OHS No.2 BRACKET       1         407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
407       308F-320       HEAT SHIELD PANEL       1         408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
408       CP-90157a-75       EDGING       1         409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
409       308F-2030-2       P.C.B. TOTAL ASS'Y       1         700       308F-2040       TOP PLATE TOTAL ASS'Y       1         701       ED-499       P.C.B. ASS'Y       1         702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				_
700         308F-2040         TOP PLATE TOTAL ASS'Y         1           701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           705         3022-0344         SLEEVE         1           706         ES-01171         OVERHEAT SWITCH         1           707         ES-01189         OVER HEAT SWITCH         1				
701         ED-499         P.C.B. ASS'Y         1           702         ET-258         TRANSFORMER         1           703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           705         3022-0344         SLEEVE         1           706         ES-01171         OVERHEAT SWITCH         1           707         ES-01189         OVER HEAT SWITCH         1				
702       ET-258       TRANSFORMER       1         703       EI-161       SPARKER       1         704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
703         EI-161         SPARKER         1           704         308F-2035         HIGH TENSION CORD         1           705         3022-0344         SLEEVE         1           706         ES-01171         OVERHEAT SWITCH         1           707         ES-01189         OVER HEAT SWITCH         1				
704       308F-2035       HIGH TENSION CORD       1         705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
705       3022-0344       SLEEVE       1         706       ES-01171       OVERHEAT SWITCH       1         707       ES-01189       OVER HEAT SWITCH       1				
706         ES-01171         OVERHEAT SWITCH         1           707         ES-01189         OVER HEAT SWITCH         1				
707 ES-01189 OVER HEAT SWITCH 1		<del> </del>		
			PRESSURE SENSOR	1

No.	PART No.	PART NAME	QTY'
709	CP-90466-3	POWER SUPPLY CORD	1
710	308F-2045	MOTOR LEAD ASS'Y	1
711	308F-2046	THERMISTOR ASS'Y	1
712	431F-1430	FR LEAD ASS'Y	1
713	308F-2047	SV.IG LEAD ASS'Y	1
714	1004F-2053	SENSOR LEAD ASS'Y	1
715	AU131-236-b	CORD PACKING B	4
716	AU131-236-a	CORD PACKING A	1
717	RC-329-1033	POWER SUPPLY CORD BRACKET	1
718	308F-534	TF LEAD ASS'Y	1
800	201F-2050	OWNER'S MANUAL	1
801	201F-2052	CONVERSION MANUAL	1
802	CP-72353-3	RATING PLATE	1
	CP-72353-4	RATING PLATE	1
803	CP-72354-3	RATING PLATE	1
803	CP-72354-4	RATING PLATE	1
804	CP-72062-13	SPECIFICATION MARK	1
	431F-1860	POWER SUPPLY CORD LABEL	1
806	431F-1840	PROPANE STICKER	1
	431F-1841	NG STICKER	1
807	556F-2065	CAUTION LABEL	1
808	1001F-1656	CAUTION MARK	1
809	308F-2063	OPERATION LABEL	1
810	1001F-1654	EXHAUST CAUTION LABEL B	1
811	550F-1418	WATER LINE LABEL	1
	431F-1830	EXHAUST CAUTION LABEL	1
	431F-1862	GAS CHECK LABEL	1
813	431F-1863	GAS CHECK LABEL	1
814	BRR37-244	ON-OFF VALVE ASS'Y	1
815	308F-2070-3	CONVERSION KIT(FOR NG)	1
815	308F-2070-4	CONVERSION KIT(FOR LPG)	1
900	CP-30310	SCREW	
901	CP-30408	SCREW	
	CP-30400	SCREW	$\vdash$
904	ZAA0316SZ	SCREW	
905	ZAA04703Z	SCREW	$\vdash$
906	ZBA0408SZ	SCREW	
908	ZBB0410SC	SCREW	
909	ZBD04103C	SCREW	
910	ZDAA0410SZ	SCREW	
911	ZEAB0406SC	SCREW	
912	ZEAB0400SC ZEAB0408SC	SCREW	
912	ZEAB0408SZ	SCREW	
913	ZEAB04085Z	SCREW	$\vdash$
914	ZEDB0408SB	SCREW	$\vdash$
916	ZEDB0408SZ	SCREW	
917	ZEDB04063Z	SCREW	$\vdash$
917	ZEDB0410SZ ZEDB0412SZ	SCREW	$\vdash$
910	ZHAAO4O6SZ		
919	ZHAA0410SZ	SCREW SCREW	
	CP-30486-2		$\vdash$
921	UF-30400-Z	SCREW	

## **Consumer Support**

## Warranty Information

The installer is responsible for your heater's correct installation.		
Please complete the information below to keep for your records:		
Purchased from:		
Address:	Phone:	
Date of Purchase:		
Model No.:		
Serial No.:		
Installed by:	Installer's License No.:	
Address:	Phone:	
Date of Installation:		

## Limited Warranty

#### RHFE-201FA Gas Direct Vent Wall Furnace

#### What is covered?

This Warranty covers any defects in materials or workmanship, subject to the terms stated below. This Warranty extends to the original purchaser and subsequent transferees, but only while the product remains at the site of the original installation. This Warranty only extends through the first installation of the product and terminates if the product is moved or reinstalled at a new location.

#### How long does coverage last?

Item	Period of Coverage
Heat Exchanger	10 years from date of purchase *
All Other Parts	5 years from date of purchase
Reasonable Labor	2 years from date of purchase

#### What will Rinnai do?

Rinnai will repair any part or component that is defective in materials or workmanship as set forth as follows. All repair parts must be genuine Rinnai parts. All repairs or replacements must be performed by an individual or servicing company that has been authorized by Rinnai. Rinnai will pay reasonable labor charges associated with the repair or replacement of any part or component.

Replacement of the product may be authorized by Rinnai only. Rinnai does not authorize any person or company to assume for it any obligation or liability in connection with the replacement of a product. If Rinnai determines that repair of a product is not possible, Rinnai will replace the product with a comparable product, at Rinnai's discretion.

\* If the Heat Exchanger fails due to a defect in material or workmanship within the sixth (6) through the tenth (10) year from the date of purchase, Rinnai will make the following allowances toward the purchase of a replacement Heat Exchanger:

Heat Exchanger	
Year of Failure	Allowance
6	50%
7	40%
8	30%
9	20%
10	10%

#### How do I get service?

You must contact a qualified/authorized service provider for the repair of a product under this Warranty. For the name of a qualified/authorized service provider please contact your place of purchase, visit the Rinnai website (<a href="www.rinnai.us">www.rinnai.us</a>), call Rinnai at 1-800-621-9419 or write to Rinnai at 103 International Drive, Peachtree City, Georgia 30269.

Proof of purchase is required. You may show proof of purchase with a dated sales receipt, or by completing and mailing the enclosed Registration card within 30 days of purchasing the product. Please complete the enclosed Registration card and mail it to Rinnai at the address shown on the card. Receipt of this card by Rinnai will constitute proof-of-purchase for this product. However, return of the Registration card is not necessary in order to validate this Warranty.

#### What is not covered?

This Warranty does not cover any failures or operating difficulties due to accident, abuse, misuse, alteration, misapplication, force majeure, improper installation, improper conversion, improper maintenance or service, or for any other causes other than defects in materials or workmanship. This Warranty does not apply to any product whose serial number or manufacture date has been defaced.

Rinnai is not liable for any special, incidental, indirect or consequential damages that may arise, including damage to person or property, loss of use, or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

#### Limitation on implied warranties

Any implied warranties of merchantability and fitness arising under state law are limited in duration to the period of coverage provided by this limited Warranty, unless the period provided by state law is less. Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# - Ask about

## Rinnai's other fine products.



#### **Tankless Water Heaters**

- Residential and Commerical Applications
- Continuous Hot Water
- Up to 8.5 GPM
- High Energy Efficiency
- Propane or Natural Gas
- Internal or External Installation
- Digital Temperature Control
- Small, Compact Design



#### **Vent-Free Zone Heaters**

- Programmable Thermostat
- Energy Efficient, Vent-free
- No Visible Flame
- Oxygen Depletion Sensor
- Secondary Heat Source



## Free-Standing and Built-In Fireplaces

- Standard Dimensions
- Thermostat Control
- State-of-the-Art Three Gas Burner System
- Electronic Push Button Ignition
- Remote/Keypad Control
- Programmable Timers



#### **Infrared Heaters**

- Wall-mountable or Free-standing
- Works in Power Outages
- Energy Efficient
- Natural or Propane Gas
- ODS Safety Sensor
- Ideal for Emergency Heating



Rinnai America Corporation 103 International Drive Peachtree City, GA 30269 TOLL FREE: 1-800-621-9419

## Rinnai

#### AMERICA CORPORATION

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