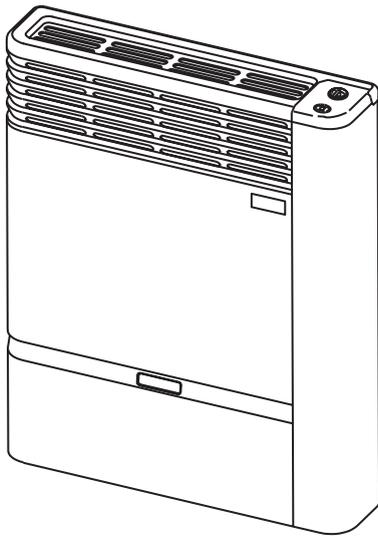




# INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL



## GRAVITY TYPE DIRECT VENT WALL FURNACE

**MODELS**  
DV8 (N,L)  
DV21 (N,L)



**EFFECTIVE DATE**  
JULY 2007

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

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

Do not store or use any 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.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by state or 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 gasses, unless a certified kit is used.

**WARNING:** If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness.

**DO NOT RETURN THIS PRODUCT TO THE STORE WHERE YOU PURCHASED IT. IF YOU ARE MISSING PARTS, OR HAVE PROBLEMS, CONTACT UNITED STATES STOVE COMPANY AT: (423) 837-2100.**

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## GAS SPECIFICATIONS

MODEL	FUEL	MAXIMUM INPUT
DV8	Propane/LP -- Natural gas	7 500 Btu/hr
DV21		18,000 Btu/hr
<b>MANIFOLD PRESSURE</b>	Natural gas: 3.5" water column pressure	
	Propane/LP gas: 10.0" water column pressure	
Gas Inlet	3/8"	
SUPPLY	MINIMUM PRESSURE	MAXIMUM PRESSURE
Natural Gas	5.0" W.C.P.	10.5" W.C.P.
LP Gas	11.0" W.C.P.	13.0" W.C.P.

Note: Appliance input ratings are based on sea level operation and need not be changed for operation up to 2,000 feet.

## SPECIFICATIONS

MODELS	DV8	DV21
<b>COMBUSTION</b>	ATMOSPHERIC BURNER	
<b>STANDARD HEATING SPACE</b>	72 -225 Sq. Ft.	169 - 529 Sq. Ft.
<b>EXTERNAL DIMENSIONS INCHES</b>	HEIGHT	
	24 5/64"	
	WIDTH	25 19/32"
	DEPTH	7 1/32"
<b>NET WEIGHT LBS.</b>	21.2 lbs.	53.2 lbs
<b>MAX. GAS CONSUMPTION</b>	7,500 Btu/hr.	18,000 Btu/hr.
<b>TEST POINT PRESSURE</b>	NATURAL GAS	
	3.5" W.C.	
	PROPANE/LP	
	10.0" W.C.	
<b>SAFETY DEVICES</b>	Safety valve (thermocouple)	

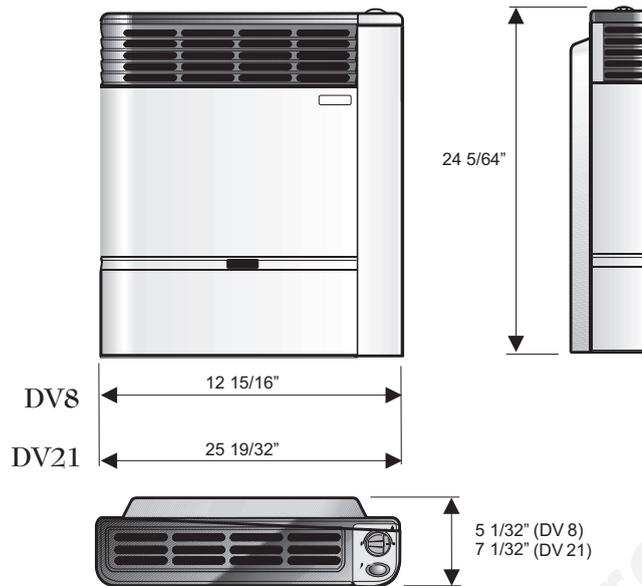
**Warning:** This direct vent wall furnace is equipped for Natural or Propane gas. Field conversion is not permitted.

## HIGH ALTITUDE SPECIFICATIONS

For altitudes/elevations above 2,000 feet (610 m ), input ratings should be reduced at the rate of 4 percent for each 1,000 feet (305m) above sea level. Canadian High Altitudes for locations having an elevation above mean sea level between 2,000 feet ( 610 m ) and 4,500 feet (1,370m), use orifices as indicated in the following table:

Model	0-2,000 feet (0-610m)		2,000-4,500 feet (610-1,370m)	
	Main Burner Orifice/Gas Pressure		Main Burner Orifice/Gas Pressure	
	Natural Gas	LP Gas	Natural Gas	LP Gas
DV8	1.35mm/3.5"	.85mm/10.0"	1.27mm/3.5"	0.83mm/10.0"
DV21	2.26mm/3.5"	1.30mm/10.0"	1.83mm/3.5"	1.27mm/10.0"

# UNIT DIMENSIONS



MAKE SURE THAT APPLIANCE IS SUITABLE FOR THE GAS SUPPLY AVAILABLE: NATURAL GAS OR PROPANE/LP.

## IMPORTANT SAFETY INFORMATION

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

Any safety screen or guard removed for servicing must be replaced prior to operating the heater.

Do not use this heater if it has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

Young children should be carefully supervised when they are in the same room as the heater.

Installation and repair should be done by a qualified service person. Heater should be inspected before use and at least annually by a qualified service person.

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 passageways of the appliance be kept clean.

*Follow State and Local codes for installation.*

**DO NOT** put anything around the furnace that will obstruct the flow of combustion and ventilation air.  
**DO** keep the appliance area clear and free from combustible material, gasoline and other flammable vapors and liquids.

**DO** examine venting system periodically and replace damaged parts.

**DO** make a periodic visual check of pilot and burners. Clean and replace damaged parts.

**CAUTION:** Pilot hole cover must be kept tightly closed during operation.

**Vent cap hot while furnace is in operation.**

# INTRODUCTION

Always consult your local Building Department regarding regulations, codes or ordinances which apply to the installation of a direct vent wall furnace.

## Instructions to Installer

1. Installer must leave instruction manual with owner after installation.
2. Installer must have owner fill out and mail warranty card supplied with furnace.
3. Installer should show owner how to start and operate furnace and thermostat.

### Warning:

**Any change to this furnace or its control can be dangerous. This is a heating appliance and any panel, door or guard removed for servicing an appliance must be replaced prior to operating the appliance.**

## General Information

**This furnace is design certified in accordance with American National Standard Z21.86 by Omni Testing Laboratories as a direct vent wall furnace to be installed according to these instructions.**

**Any alteration of the original design, installed other than as shown in these instructions or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.**

**Notice:** During initial firing of this unit, its paint will bake out and smoke will occur. To prevent triggering of smoke alarms, ventilate the room in which the unit is installed.

## Installation in Residential Garages

Gas utilization equipment in residential garages shall be installed so that all burners and burner ignition devices are located not less than 18" above the floor. Such equipment shall be located, or protected, so it is not subject to physical damage by a moving vehicle.

## Qualified Installing Agency

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed by a qualified agency. The term "qualified agency" means any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (1) the installation or replacement of gas piping or (2) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required and has complied with all the requirements of the authority having jurisdiction.

**State of Massachusetts:** The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts. The state of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

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\** *Natural Gas and Propane Installation Code, CSA B149.1.*

*\*Available from the American National Standards Institute, Inc., 11 West 42nd St., New York, N.Y. 10036.*

The vent terminal of a direct vent appliance, with an input of 10,000 Btu per hour (3 kW) or less shall be located at least 6" (150mm) from any air opening into a building, and such an appliance with an input over 10,000 Btu per hour (3 kW) but not over 50,000 Btu per hour (14.7 kW) shall be installed with a 9" (229mm) vent terminal clearance and the bottom of the vent terminal and the air intake shall be located at least 12" (305mm) above grade.

**WARNING: The nearest point of the vent cap should be a minimum horizontal distance of six (6) feet (1.8m) from any pressure regulator. In case of regulator malfunction, the six (6) feet (1.8m) distance will reduce the chance of gas entering the vent cap.**

# REQUIREMENTS FOR MASSACHUSETTS

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. **INSTALLATION OF CARBON MONOXIDE DETECTORS.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.
  - a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
  - b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.
2. **APPROVED CARBON MONOXIDE DETECTORS.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.
3. **SIGNAGE.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. **INSPECTION.** The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2) 1 through 4.

**EXEMPTIONS:** The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

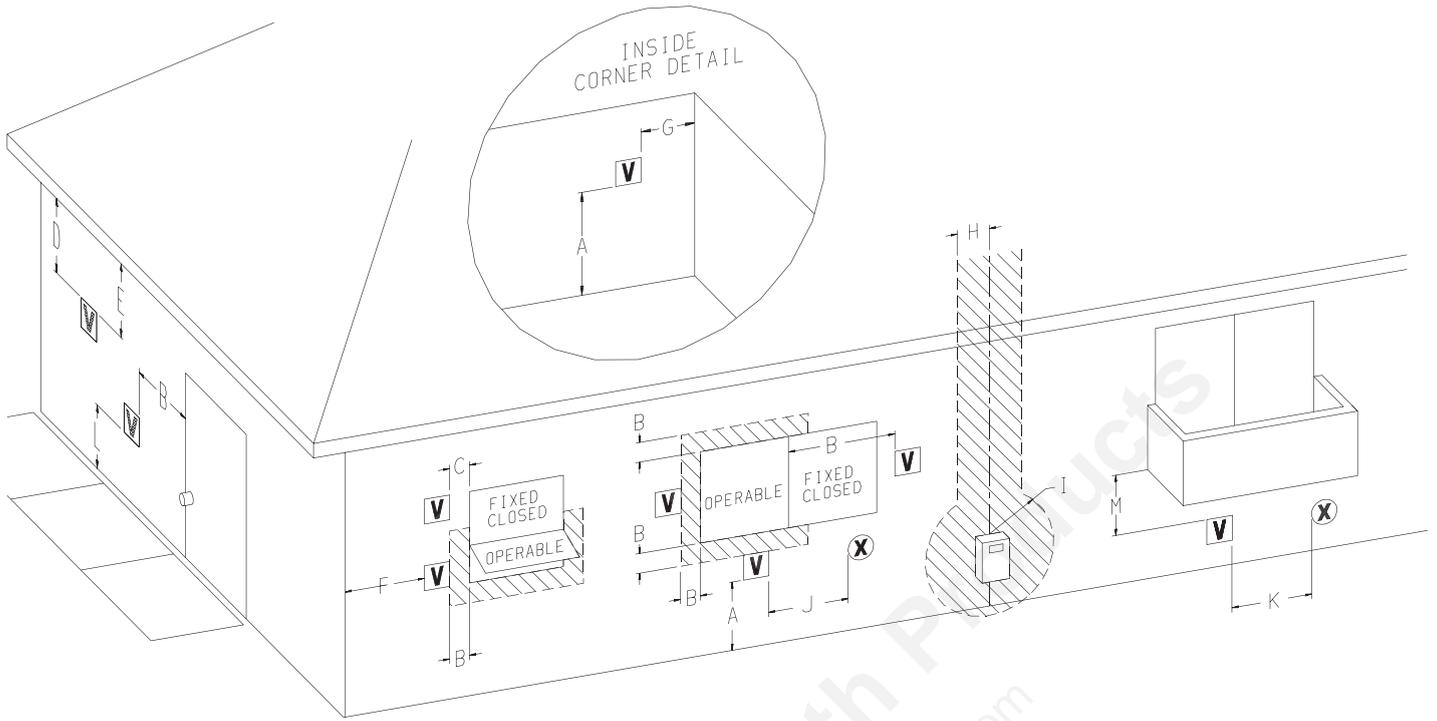
## MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED.

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

1. Detailed instructions for the installation of the venting system design or the venting system components; and
2. A complete parts list for the venting system design or venting system.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

# TERMINATION CLEARANCES



**V** VENT TERMINAL

**X** AIR SUPPLY INLET

AREA WHERE TERMINAL IS NOT PERMITTED

Description	US Installations <sup>1</sup>
A Clearance above grade, veranda, porch, deck, or balcony	12 inches (30 cm)
B Clearance to window or door that may be open	6 inches (15 cm) for appliance ≤ 10,000 Btuh (3 kW), 9 inches (23 cm) for appliances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (15 kW), 12 inches (30 cm) for appliances > 50,000 Btuh (15 kW)
C Clearance to permanently closed window	*
D Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal	*
E Clearance to unventilated soffit	*
F Clearance to outside corner	*
G Clearance to inside corner	*
H Clearance to each side of center line extended above meter/regulator assembly	*
I Clearance to service regulator vent outlet	*
J Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance.	6 inches (15 cm) for appliance ≤ 10,000 Btuh (3 kW), 9 inches (23 cm) for appliances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (15 kW), 12 inches (30 cm) for appliances > 50,000 Btuh (15 kW)
K Clearance to a mechanical air supply inlet	3 feet (91 cm) above if within 10 feet (3 m) horizontally
L Clearance above paved sidewalk or paved driveway located on public property	*
M Clearance under veranda, porch, deck, or balcony.	*

The minimum distance from the center of the outside vent to the nearest inside and outside corner or obstruction or overhang is 18".

<sup>1</sup> In accordance with current *ANSI Z223.1/NFPA 54, National Fuel Gas Code*

\* For clearances not specified in *ANSI Z223.1/NFPA 54* or *CSA B149.1*, one of the following shall be indicated:

a) A minimum clearance value determined by testing in accordance with section 2.19.6, or;

b) A reference to the following footnote:

“Clearance in accordance with local installation codes and the requirements of the gas supplier.”

# INSTALLATION AND ASSEMBLY

**WARNING: Any change to this heater or its control can be dangerous. Provide adequate clearances and accessibility for purposes of servicing and proper operation.**

A manufactured home (USA only) installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 or, when such standard is not applicable, the Standard for Manufactured Home Installations, ANSI Z225.1.

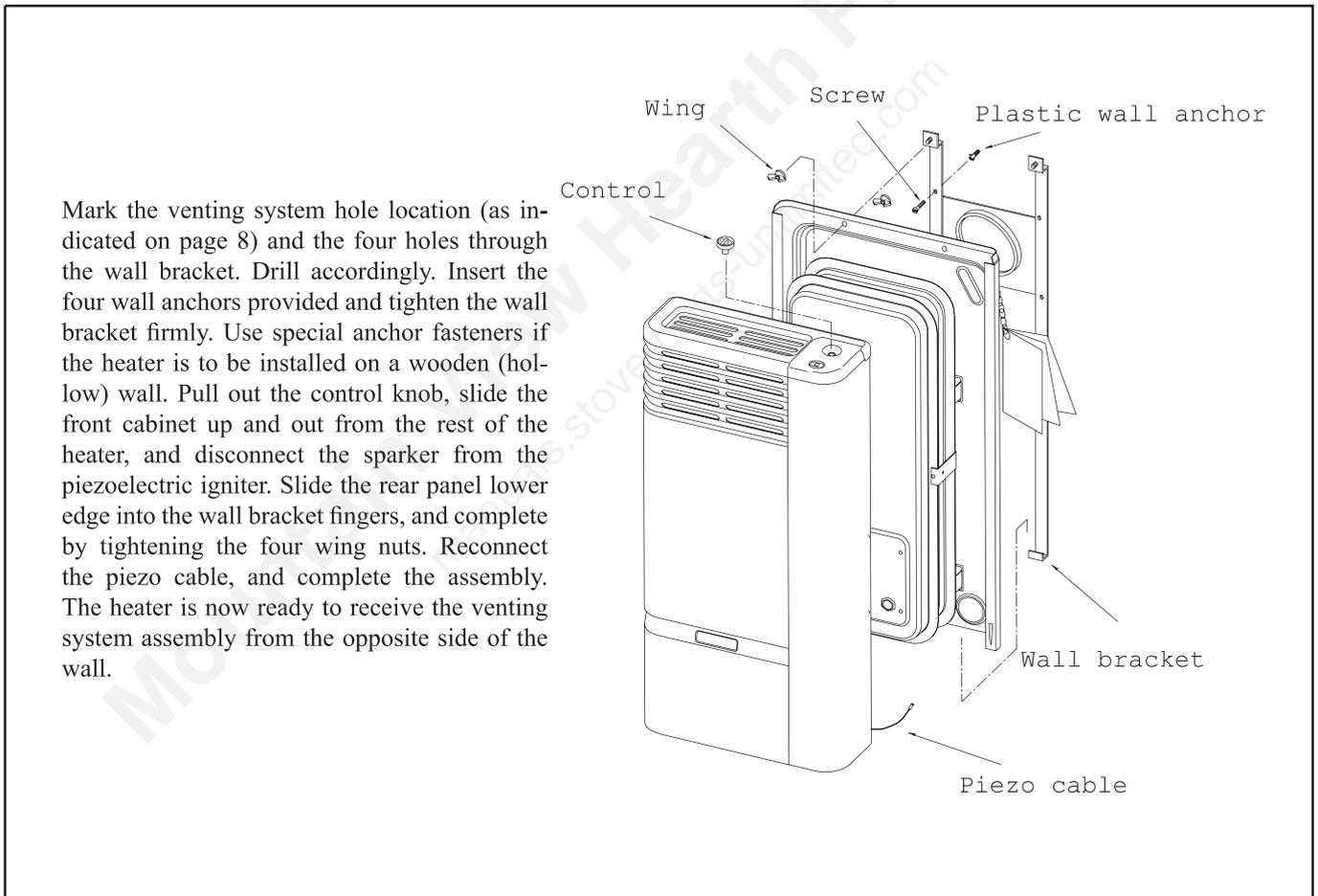
Due to high surface temperature, keep children, clothing, and furniture away. Keep burner and control compartments clean. See installation and operating instructions accompanying heater.

## INSTALLATION OVERVIEW

**WARNING: Improper installation, adjustments, alteration, service, or maintenance can cause property damage, personal injury or loss of life.**

**Refer to the owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.**

These wall furnace models are designed for direct venting through a wall. Only venting components approved for these furnaces may be used.

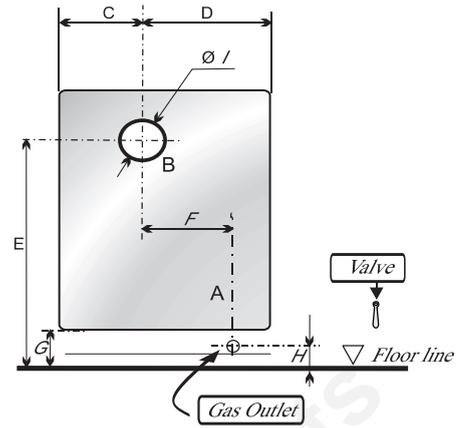


**IMPORTANT: The venting system must be properly installed to insure proper and safe operation. The venting system must also be properly re-installed and re-sealed to insure proper and safe operation.**

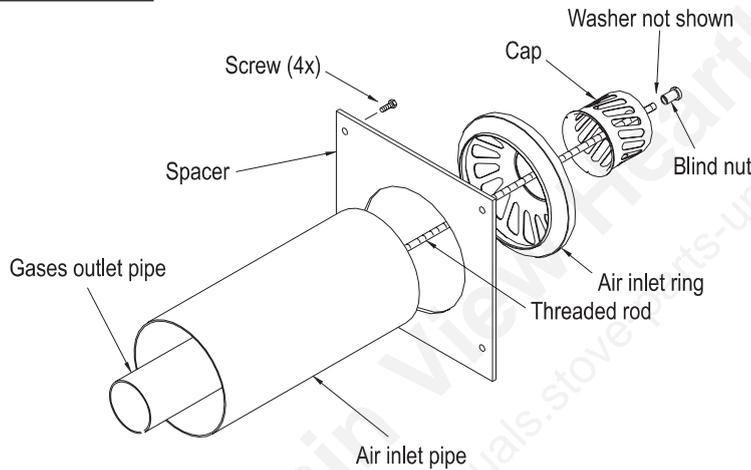
### DIRECT VENTING HORIZONTAL INSTALLATION

Once the place for the installation is selected, refer to the figure below for positioning the "B" hole. Be sure the skirting-board does not get in the way.

MEASUREMENTS (inches)		
Model	DV21	DV8
C	12	5.5
D	13.75	6.75
E	21	22.5
F	11.5	5
G	5	5
H	3.5	3.5
I	8.25	6

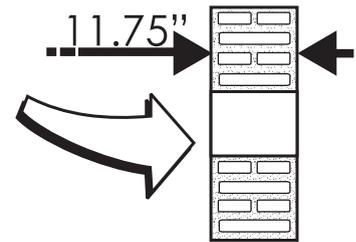


### TB Sub-assembly



This unit is to be installed on wall from 4" to 11.75" thick.

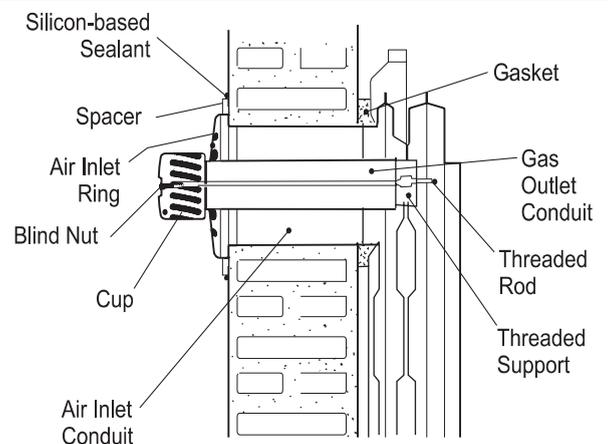
The cap has a hole to insert the threaded rod easily through the assembly.



**IMPORTANT:** The appliance's venting system should be inspected at least once a year and immediately cleaned if necessary.

Insert the threaded rod (from the other side of the wall) through the air inlet conduit, tightening it to the combustion chamber support. Place the air inlet ring around the tube sealing it against the spacer. Insert the cap through the rod and tighten firmly using the blind nut and washer.

**Failure to position these parts in accordance with diagram or failure to use only parts specifically approved with these appliances may result in property damage or personal injury.**



**INSTALLATION**

**WARNING:** Read the installation instructions thoroughly before cutting or drilling any holes for installation.

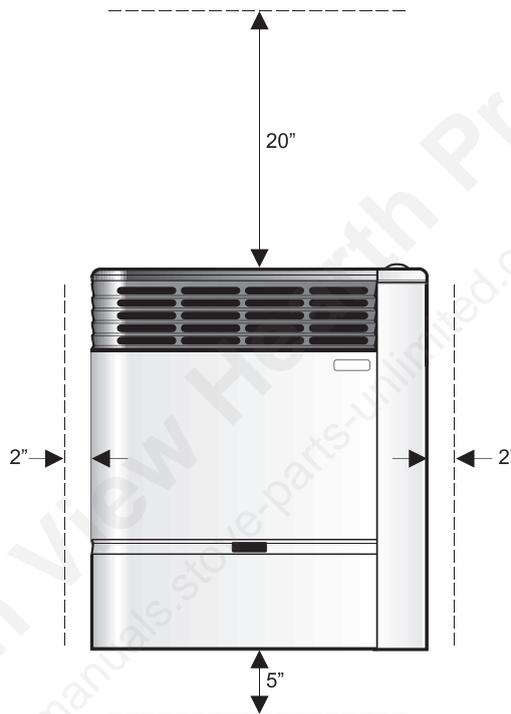
**WARNING:** Do not remove any rating plates attached to the unit.

**INSTALLATION AND ANY REPAIRS TO THIS APPLIANCE MUST BE DONE BY A QUALIFIED SERVICE PERSON.**

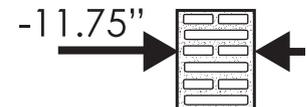
A qualified service person should be called to inspect this appliance annually.  
Have all of your appliances checked annually.

**CLEARANCES TO COMBUSTIBLES**

Allow clearances (for all models) to adjacent combustible construction.



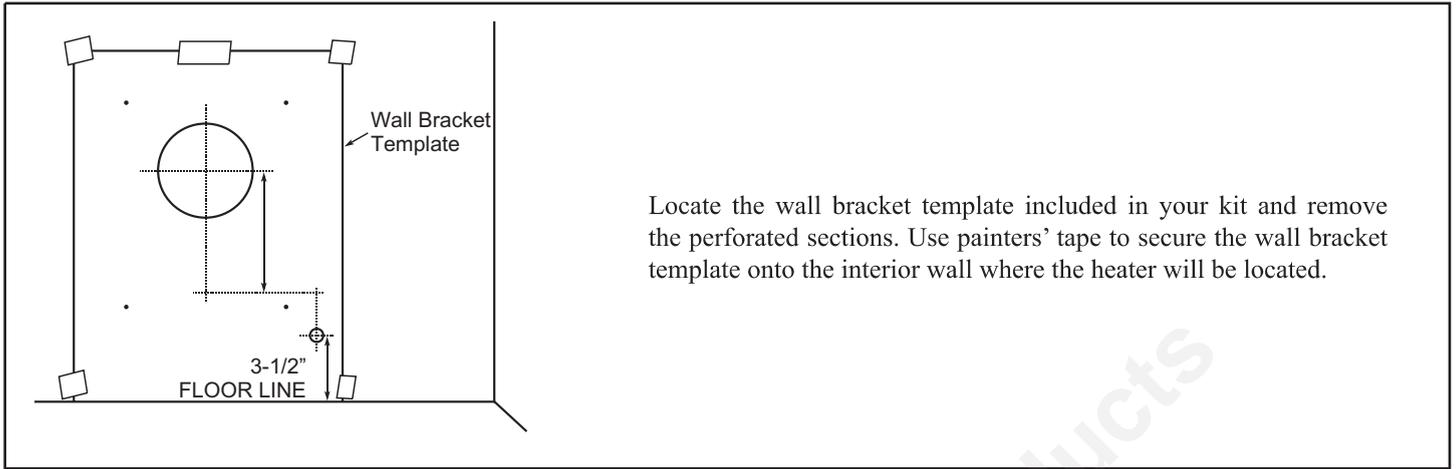
**IMPORTANT:** A qualified service person must install this appliance. Installation must conform to local codes, or in the absence of local codes, with the latest edition of the National Fuel Gas Code, ANSI Z223.1.



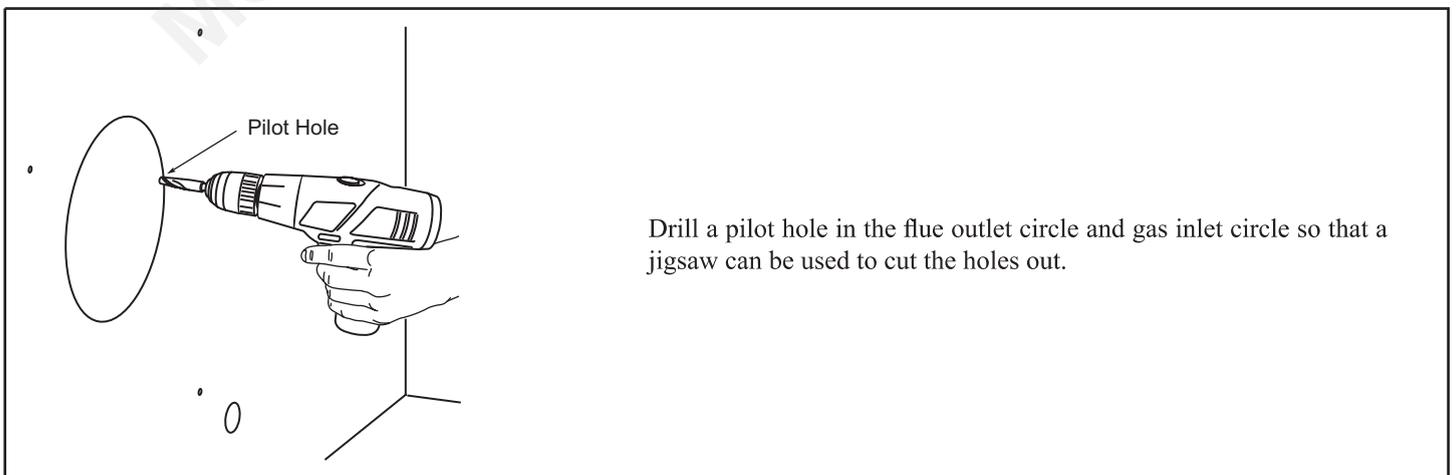
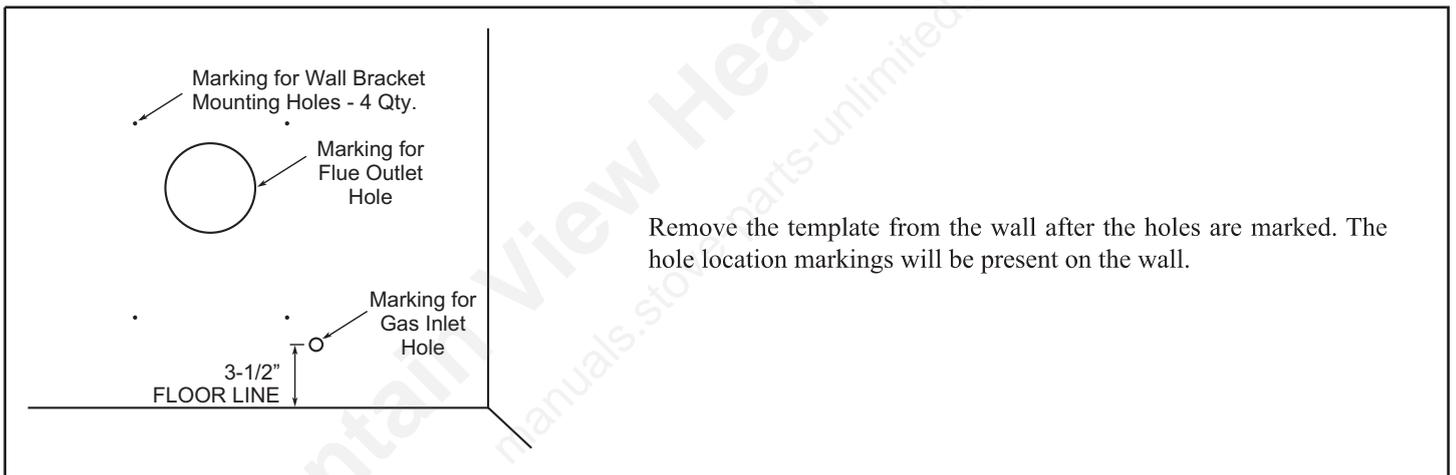
When the wall thickness is less than 11.75", cut the sub-assembly as specified in the chart. (The measurement is the original wall thickness plus the added length in the chart)

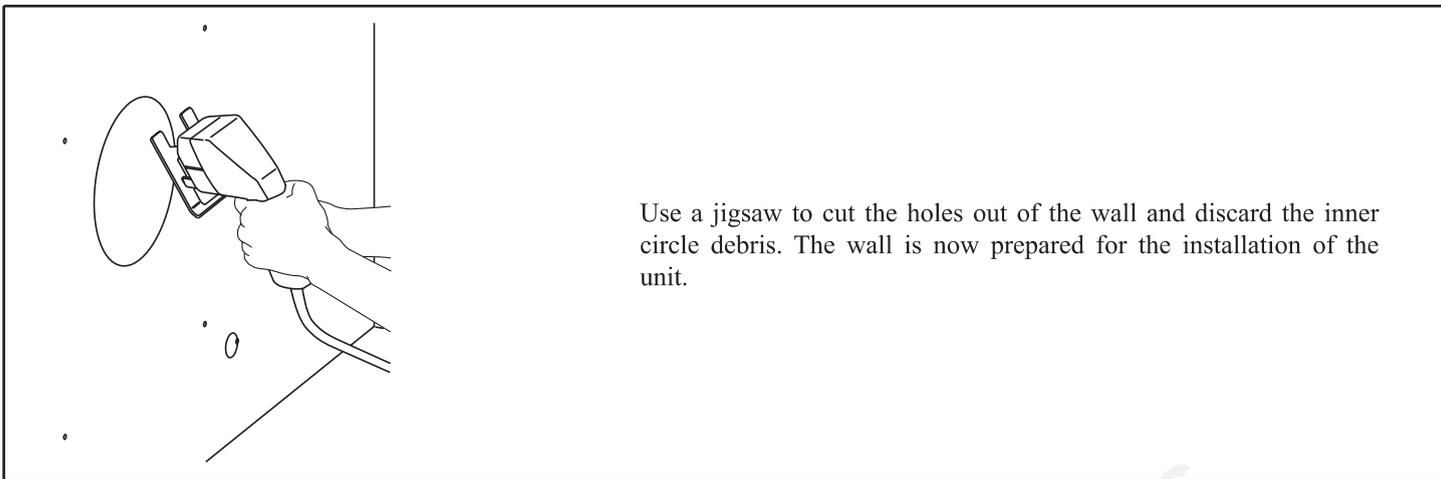
WALL THICKNESS	MODELS		ACCESSORY
	DV21	DV8	
+	8 1/2"	6 1/2"	THREADED ROD
	1 3/8"	1 3/8"	AIR INLET PIPE
	4 7/8"	3 7/8"	GAS OUTLET PIPE

## INTERIOR PREPARATION AND INSTALLATION OF THE BACK OF THE UNIT

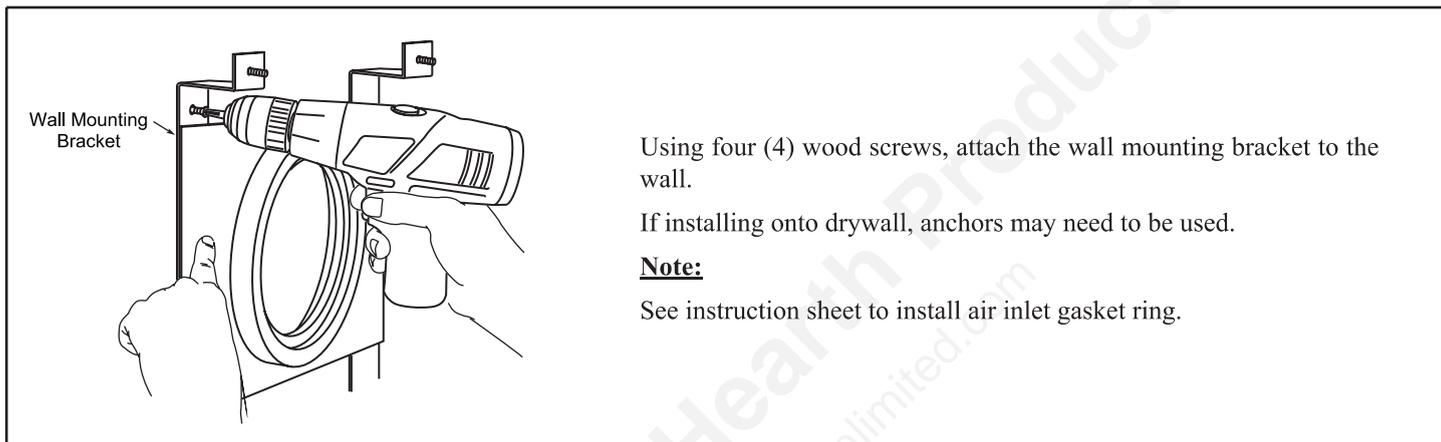


Trace the template flue outlet hole and the gas inlet hole onto the wall. Mark the four (4) wall bracket mounting screw holes onto the wall. The size of the gas inlet hole will depend upon the size of gas pipe coming into the unit. (See page 9, top graphic, items A and B). The center of the gas inlet hole will be located 3-1/2" from the floor line.





Use a jigsaw to cut the holes out of the wall and discard the inner circle debris. The wall is now prepared for the installation of the unit.

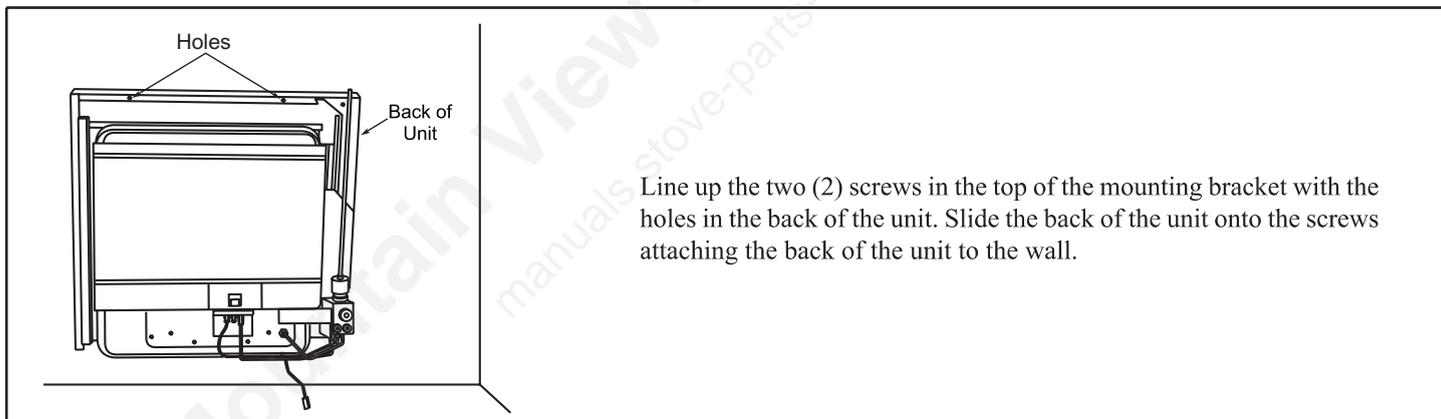


Using four (4) wood screws, attach the wall mounting bracket to the wall.

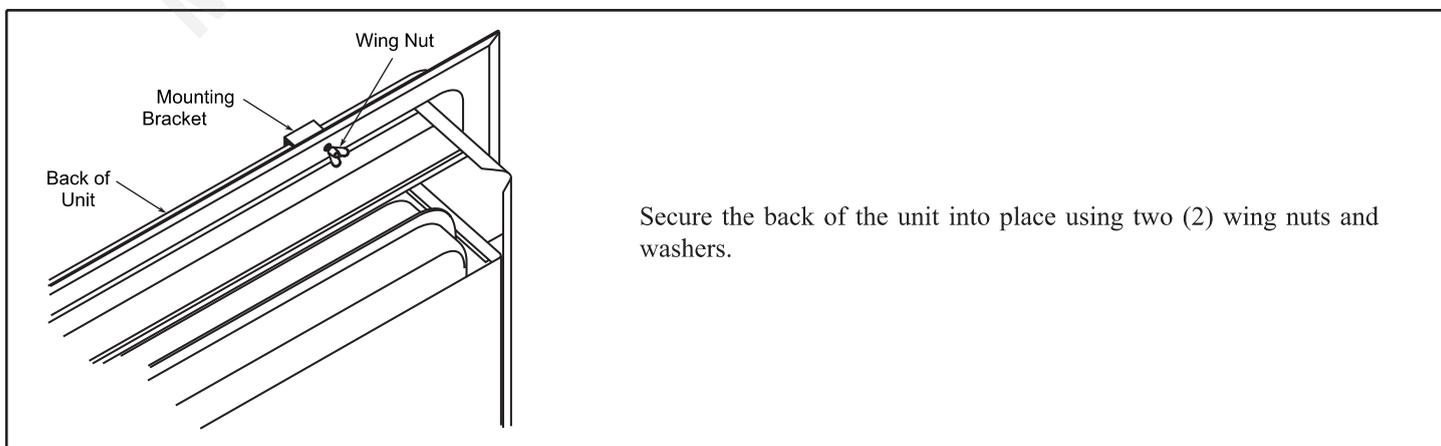
If installing onto drywall, anchors may need to be used.

**Note:**

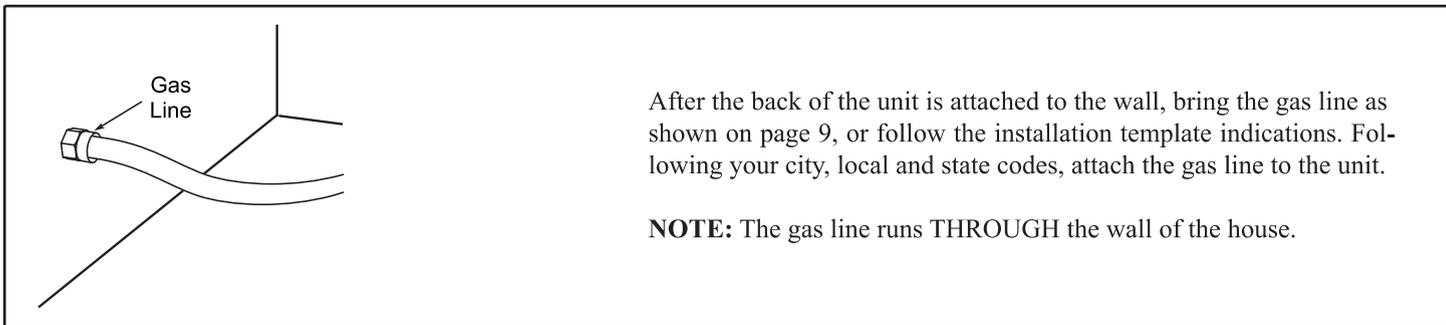
See instruction sheet to install air inlet gasket ring.



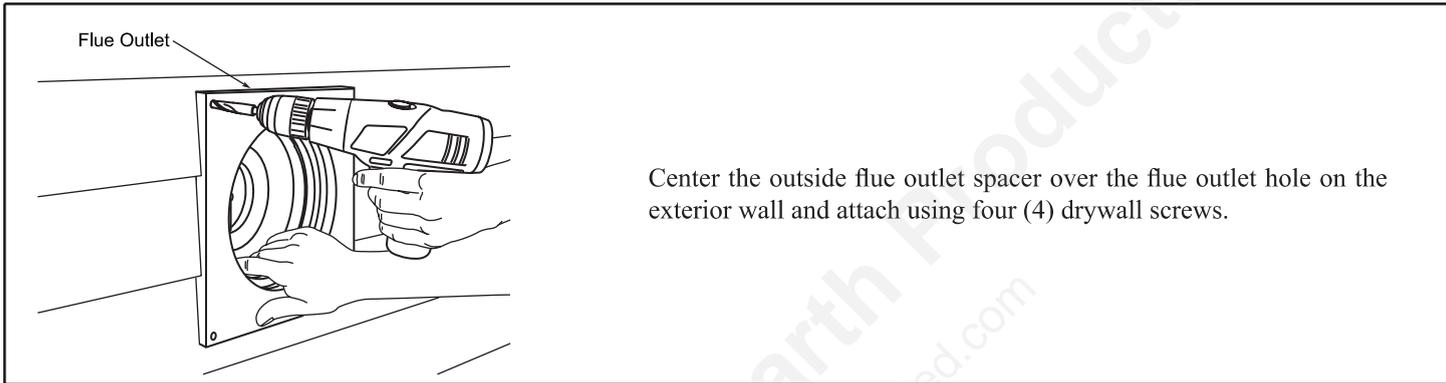
Line up the two (2) screws in the top of the mounting bracket with the holes in the back of the unit. Slide the back of the unit onto the screws attaching the back of the unit to the wall.



Secure the back of the unit into place using two (2) wing nuts and washers.

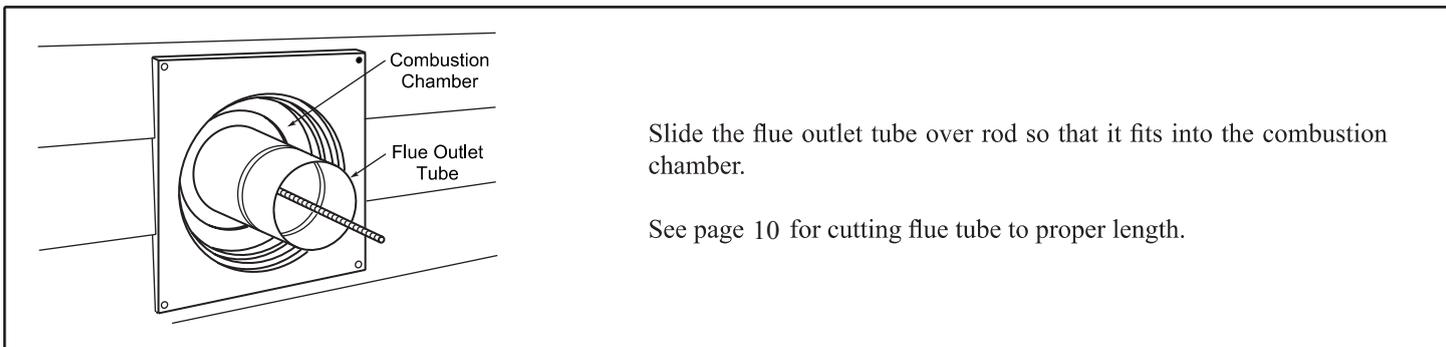
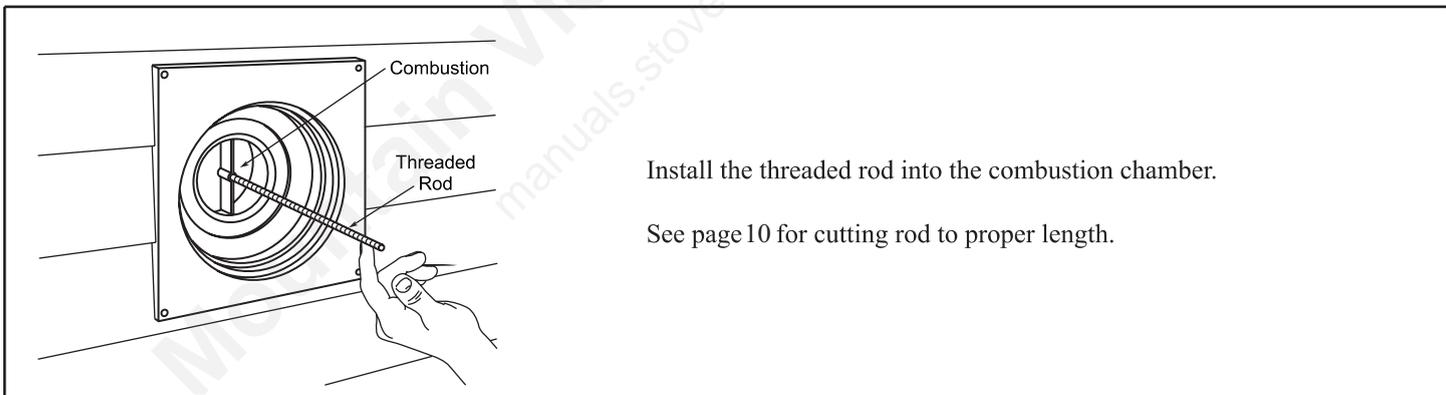


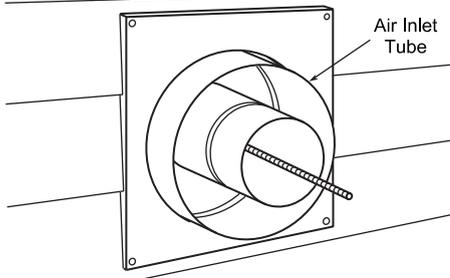
### EXTERIOR INSTALLATION OF THE VENTING



### VENT KIT INSTALLATION

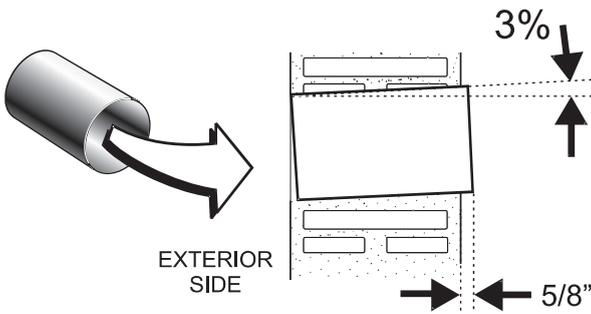
**NOTE:** Flue outlet tube, air inlet tube, and threaded rod should be measured and cut to the proper length from the back of the unit to the outside wall of the house. There should be little to no venting showing on the outside of the house. See the table on page 10.





Slide the air inlet tube over the flue outlet tube and fit into the combustion chamber.

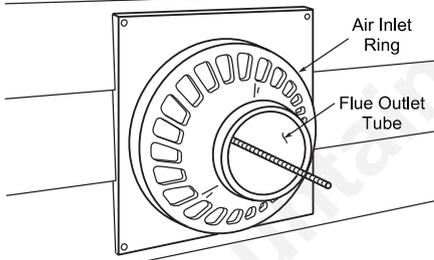
See page 10 for cutting air inlet tube to proper length.



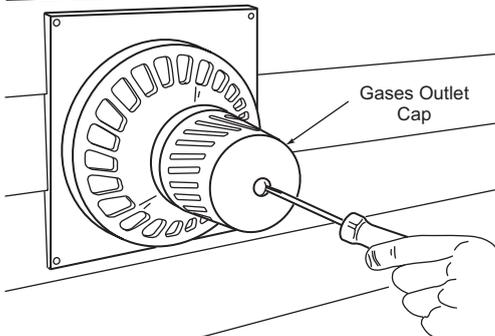
Insert the air inlet pipe carefully to maintain this element's shape intact.



**MAKE SURE THE AIR INLET PIPE IS TILTED 3 PERCENT AS SHOWN TO AVOID ANY WATER COMING IN.**

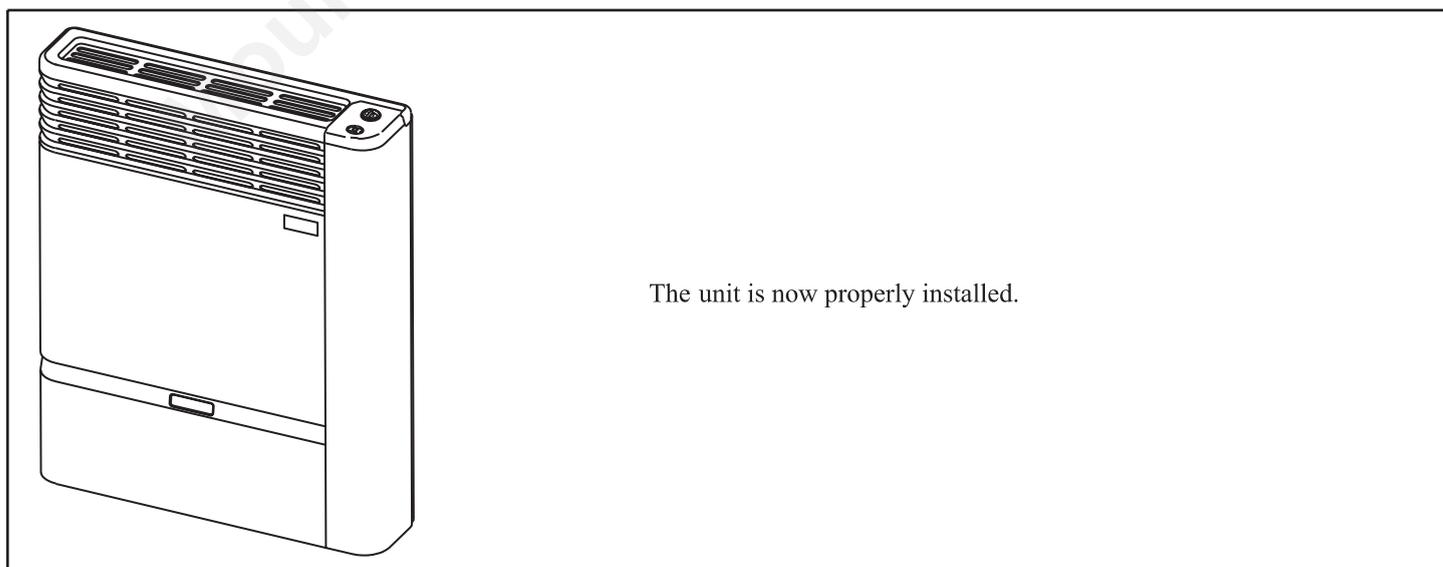
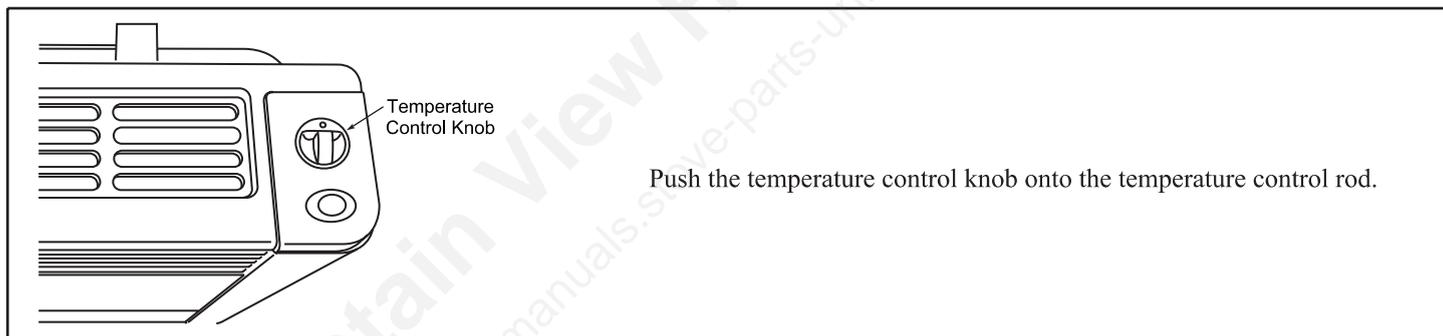
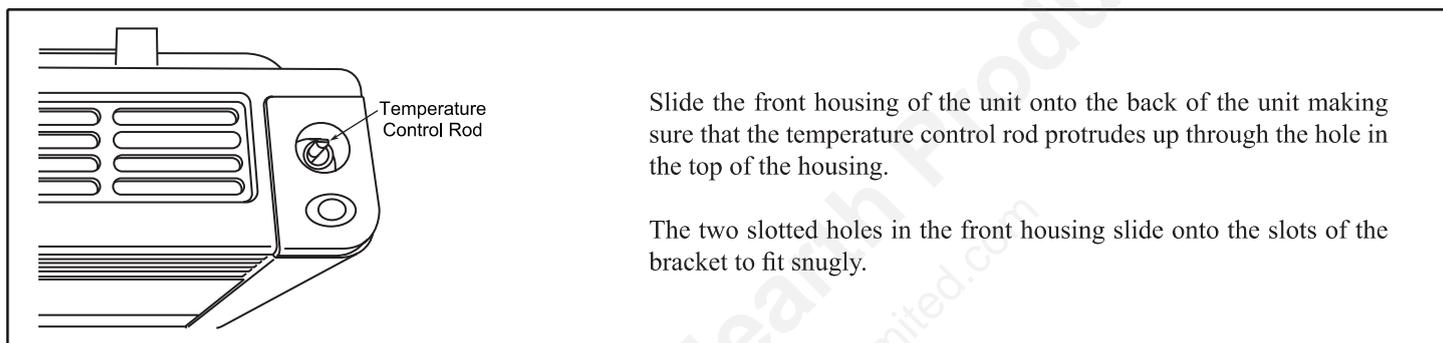
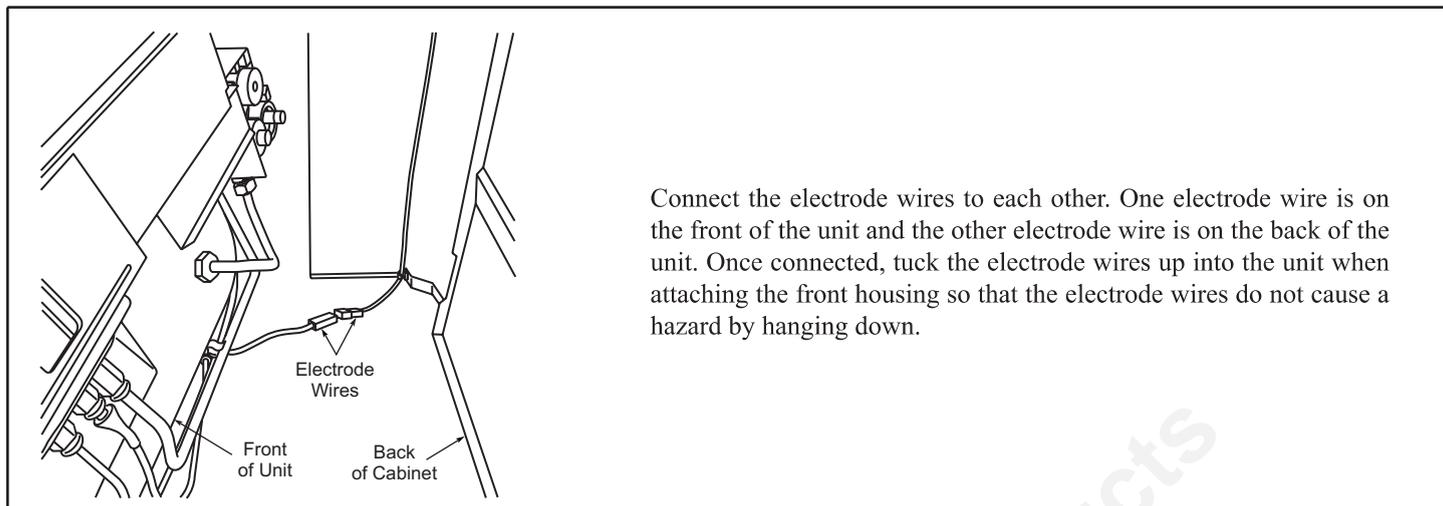


Slide the air inlet ring onto the air inlet tube making sure that the flue outlet tube comes through the center hole to proper length.

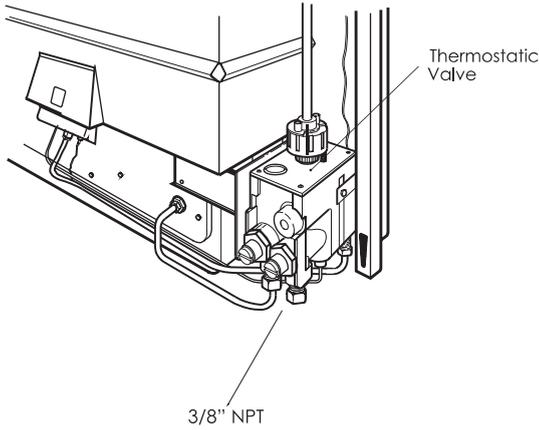


Attach the gases outlet cap making sure that the threaded rod comes through the center hole in the cap. Secure the gases outlet cap by attaching the washers and the brass blind nut to the threaded rod using a screwdriver, tightening to stabilize the vent kit.

## INTERIOR INSTALLATION OF THE FRONT OF THE UNIT



# BEFORE OPERATING APPLIANCE



## WARNING

**Improper installation, adjustments, alterations, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be conducted by a Qualified Service Person.**

Under no circumstances should these heaters be modified.

In case of gas leaks, close gas valve and call your Qualified Service Person.

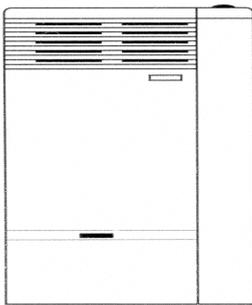
## ATTENTION INSTALLER:

The appliance must be isolated from the gas supply piping system by closing its equipment shut-off 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).

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).

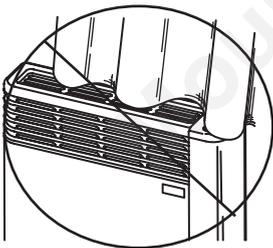
**DO NOT RECESS INTO WALLS, BOOKCASES, ETC.**

**CHECK THE FOLLOWING BEFORE OPERATING APPLIANCE**

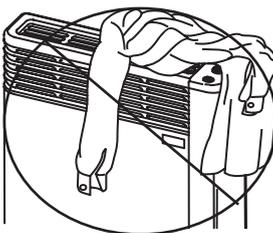


Description label

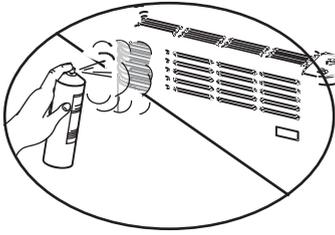
Do not use gases other than those indicated on the heater's rating plate



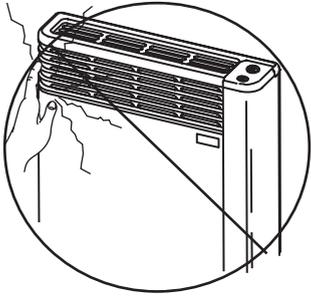
Due to high temperature, the appliances should be located out of traffic and away from furniture and draperies.



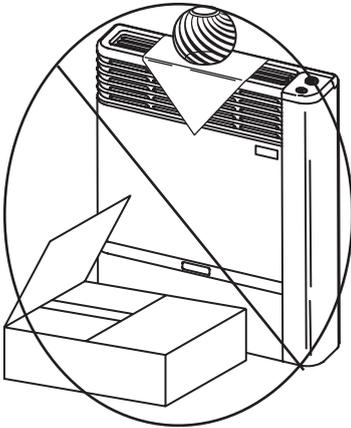
Do not place clothing or other flammable material on or near the appliance. Do not dry clothes over heater. Blockage of hot air outlet will cause overheating of appliance, and possible fire.



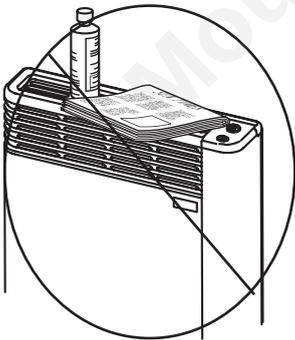
Do not spray any aerosol near heater when in operation. Do not store these elements near appliance.



Do not touch grill. Avoid burning yourself.

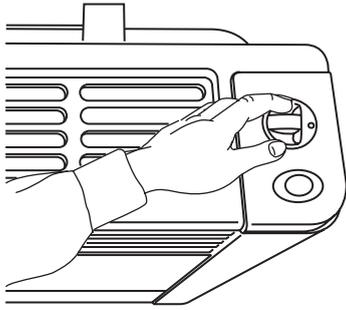


Avoid blocking air inlet and hot air outlet.



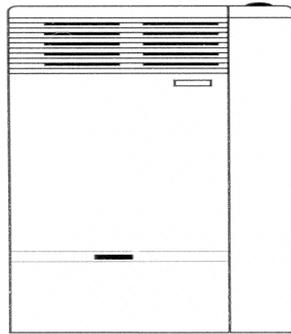
Do not place flammable elements on or near the heater.

**IMPORTANT:** Under no circumstances should this appliance be modified. Do not operate this appliance if any parts have been removed for service.



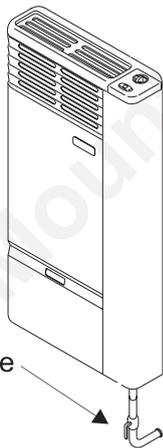
### WHAT TO DO IF YOU SMELL GAS

- 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.
- If you smell gas, shut off control valve, open doors and windows, and do not use any electrical device. Call our technical department at : (423) 837-2100



5" FLOOR LEVEL

(Top surface of carpet, wood, tile, etc...)



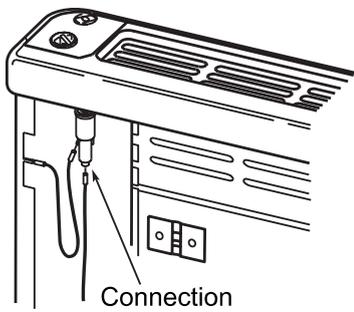
Shut off valve

Any compound used on the threaded gas piping joint shall be resistant to any action of liquefied petroleum gas.

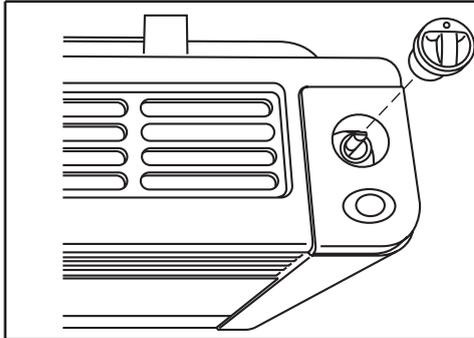
A shut off valve (or appliance connector valve) must be installed in the gas line upstream to permit servicing.

After completion of gas pipe connections, all joints must be checked for gas-tightness by means of leak detector solution, soapy water or an equivalent solution, as applicable.

**CAUTION:** Since some leak test solutions, including soapy water, may cause corrosion or stress cracking, all tested pipes and joints shall be rinsed in water, unless it has been determined that the test solution is a non-corrosive type.



Connect wire from piezo igniter to igniter (arrow). Light the appliance carefully checking all connections with a soapy water solution to assure no leaks are present.



Reassemble appliance making sure lower end lids fit into installed grooves. Place knob in position and push down gently.

Note: All references must be considered as if the observer is standing in front of the wall and/or appliance.

## **ATTENTION INSTALLER: INSTRUCT YOUR CUSTOMER ABOUT THE CORRECT OPERATION OF THE APPLIANCE BEFORE YOU LEAVE.**

Air must be exhausted from pipeline by depressing to pilot setting or by loosening gas inlet connection until you smell gas. Qualified service persons must conduct this procedure only for the first time the heater is operated, in a well ventilated room, with doors and windows open. If loosened, tighten gas inlet connection. Check gas inlet connection with a soapy water solution to assure no leaks are present. Do not regulate primary air burner. They both have been adjusted according to corresponding gas. If burner produces a permanent bright yellow flame when igniting or when ignited, call: (423)837-2100

# OPERATING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE LIGHTING

**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 has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B) BEFORE LIGHTING, 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 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.

C) Use only your hands to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

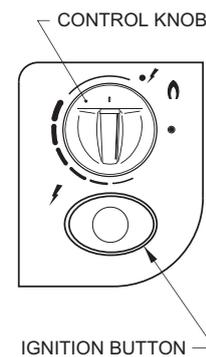
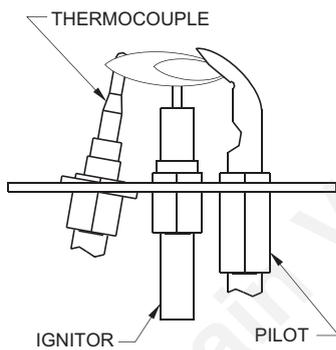
D) Do not use this appliance if it has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

**NOTE:** It is normal for the new heater to give off some odor the first time it is lit. This is due to final paint curing and to any undetected oil remaining from the manufacturing process. It is recommended that you operate your new wall heater for at least two (2) hours the first time you use it.

**ONCE THE UNIT IS IN OPERATION, CHECK ALL GAS CONNECTIONS WITH A SOAPY WATER SOLUTION. CHECK THE TEST POINT PRESSURE; IT MUST BE 3.5" W.C. FOR NATURAL GAS AND 10.0" W.C. FOR LP GAS.**

# LIGHTING INSTRUCTIONS

1. STOP! Read the safety information on the side of the heater.
2. Check that gas supply to heater is on.
3. Push in gas control knob slightly and turn clockwise  to "OFF" position. Do not force (see below).
4. 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 on the side of the heater. If you do not smell gas, go to the next step.
5. Turn control knob counterclockwise  to pilot (\*) position. Push control knob all the way in and hold it. Repeatedly push the piezo ignitor button until the pilot is lit. Keep control knob pressed for fifteen (15) seconds before releasing. If pilot does not light, repeat. If spark is not working, light the pilot with a match. The pilot can be located by looking through the rectangular opening on the front cover. **NOTE:** It may be necessary to depress for thirty (30) seconds if this is the first time the heater is connected to the gas supply. There may be air in the pilot line.
6. If the pilot light does not stay lit after several tries, turn gas control knob to "OFF" and call your service technician or gas supplier.
7. If knob does not pop up when released, STOP and call your service technician or gas supplier immediately.
8. To select the desired heating level, press down the control knob slightly and rotate counterclockwise . Release downward pressure on the knob while continuing to turn until the knob locks at the desired setting position. Do not operate between locked position.



## TO TURN OFF GAS TO APPLIANCE

Turn control knob clockwise  to the "OFF" position.

**CAUTION:**

Wait five (5) minutes before relighting the heater.

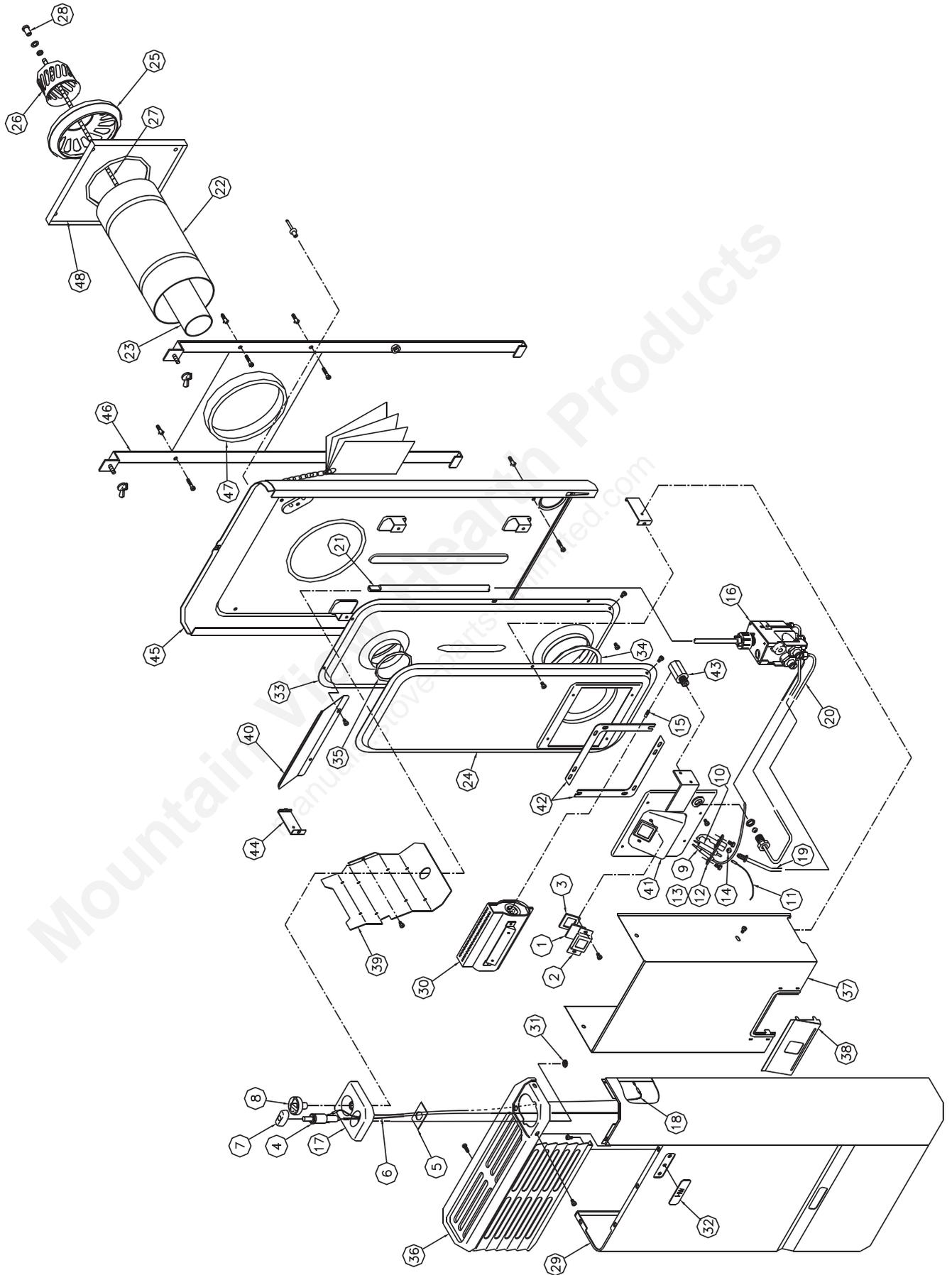
**TO TURN OFF BURNER ONLY:**

Turn knob clockwise  to the "PILOT" position. Pilot will remain lit.

# PARTS LIST

ITEM	DESCRIPTION	DVS PART NUMBER	DV21 PART NUMBER
1	GLASS VIEWER	10280	10280
2	VIEWER FRAME	30098	30098
3	VIEWER GASKETS	30096T	30096T
4	IGNITOR	10453	10453
5	IGNITOR LOCK	12847	12847
6	IGNITOR WIRE	12846	12846
7	PUSHBUTTON	12511	12511
8	CONTROL KNOB	11263I	11263I
9	THERMOCOUPLE	12855	10704
10	PILOT SPARKER	10712	10712
11	PILOT SPARKER WIRE	12843	12853
12	PILOT UNIT	10706	10706
13	PILOT GASKET	30646F	30646F
14	PILOT INJECTOR NG (ORIFICE)	10708	10708
14	PILOT INJECTOR LPG (ORIFICE)	10710	10710
15	BURNER INJECTOR NG (ORIFICE)	32535	32543
15	BURNER INJECTOR LPG (ORIFICE)	32544	31177
16	THERMOSTATIC VALVE NG	10692	10692
16	THERMOSTATIC VALVE LPG	10694	10694
17	COMMAND PANEL	10809I	10923I
18	GROUND WIRE	10455	10455
19	PIPE, VALVE TO PILOT	32497	32532
20	PIPE, VALVE TO BURNER	32498	32533
21	COMMAND ROD	11600	11600
22	AIR INLET PIPE	32494	32515
23	FLUE OUTLET PIPE	32663	32516
24	COMBUSTION CHAMBER	32491P	32537P
25	AIR INLET RING	32492E	32517E
26	CAP	32493E	32518E
27	THREADED ROD	13047	13048
28	BLIND NUT	10113	10113
29	FRONT CABINET	31966EM	30828EM
30	BURNER UNIT	32561P	30868P
31	COMMAND PANEL LOCK	10450	10450
32	NAMEPLATE HOUSEWARMER	12834	12834
33	DISTRIBUTION CHAMBER	32490P	32536P
34	AIR INLET GASKET	12768	12769
35	FLUE OUTLET GASKET	12767	12769
36	GRILL	30066P	30061P
37	DEFLECTOR SHIRT	30157	30818
38	DEFLECTOR SHIRT SUPPL.	30158	30158
39	DEFLECTOR, RIGHT SIDE	30152	30824
40	DEFLECTOR, TOP	30154	30800
41	BURNER COVER	32496P	32557P
42	BURNER COVER GASKET	31384T	31386T
43	BURNER INJECTOR FITTING	10119	10836
44	CHAMBERS CLAMPS	30159	30864
45	REAR PANEL	31987EM	3254EM
46	WALL BRACKET	32443	32445
47	VENTING SYSTEM GASKET	12867	12868
48	SPACER	32499P	32555P

# PARTS VIEW



# MAINTENANCE INSTRUCTIONS

## WARNING:

- Prior to any maintenance operation, it will be necessary to close the gas supply.
- Only qualified personnel are allowed to operate these appliances without the front cabinet installed.

OPERATION	FREQUENCY	FAULTS TO BE PREVENTED	REMARKS
External cleaning	As required	External dirty	With wet rag or soft cloth. No qualified persons required
General cleaning of appliances	As required. It is advisable to perform this operation annually.	Recirculation of suspended particles in surrounding air, deposits on the appliance	To be performed by qualified personnel
Gas leakage control	Only if the equipment has been moved or if any gas circuit element has been changed.	Gas leakage	Check with soapy water solution. To be performed by qualified personnel
Cleaning of pilot burner	As required	Clogging of same	To be performed by qualified personnel
In case of doubt, please check with our Customer Service Department			

**Use soft dry cloth to wipe cabinet.**

**Use compressed air to remove dust from around pilot and main burner.**

**Use a vacuum cleaner or compressed air to clean cap and air inlet ring.**

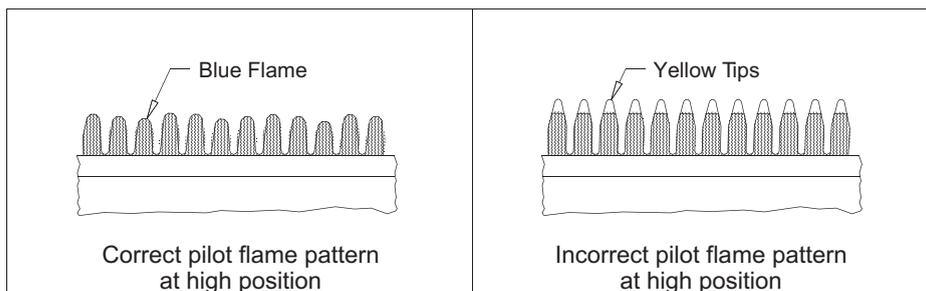
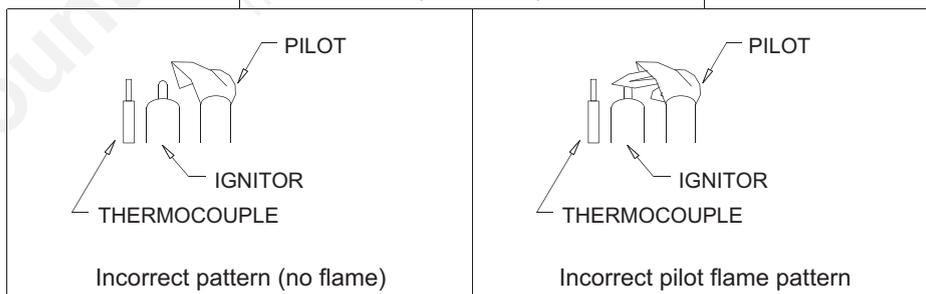
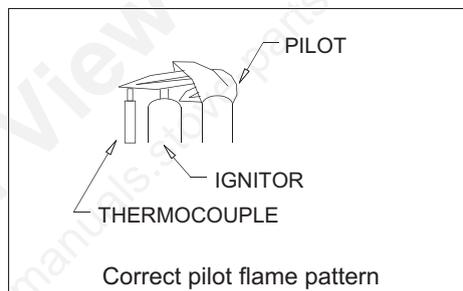
## **CLEANING BURNER AND PILOT**

Cleaning of the burner and pilot may be performed by gently vacuuming loose particles and dust from the burner ports and cleaning the air intake. Clean the pilot burner with compressed air, pipe cleaner or toothbrush. Do not insert any object (pin, drill bit, etc.) through pilot orifice. This will destroy the orifice. Any service which requires disconnecting the gas supply line must be performed by a qualified service person.

**Note:** It is recommended to shut off pilot in off season.

# TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTION
Pilot flame does not light up	A) Gas supply valve closed B) Air in gas pipes C) Valve does not work properly	A) Open gas supply valve B) Repeat ignition procedure C) Place knob on PILOT position and depress fully
When ignition knob is released, pilot extinguishes	A) Air remains in gas pipes B) Dirty pilot C) Thermocouple is defective	A) Repeat ignition procedure B) Clean pilot C) Check with Service Department
Burner burns abnormally	A) Gas supply valve is not fully open B) Flame lifts when appliance is cold	A) Open gas supply valve fully B) Keep on MIN. for about 10 minutes
Burner shuts down while in operation	A) Gas supply interrupted B) Incorrect piping connection	A) Gas supply re-established B) Connect piping according to installation instructions
Burner burns with yellow flames	Incorrect piping connection	Connect piping according to installation instructions
Difficulties in heating room	A) Incorrect heater size B) Low gas pressure C) Partially plugged injector	A) Contact Service Department for sizing room B) Check with Service Department C) Check with Service Department



# HOW TO ORDER REPAIR PARTS

The Company reserves the right of introducing any modification deemed convenient in order to improve the products, or due to any manufacture or commercial requirements, without previous notice, provided those modifications are in accordance with the local gas code.

This manual will help you obtain efficient, dependable service from your HouseWarmer heater, and enables you to obtain repair parts correctly.

Parts can be ordered **only** through your **service person or dealer**. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following appropriate illustration and list. Be sure to give all this information . . .

Furnace Number \_\_\_\_\_ Part Description \_\_\_\_\_  
Furnace Serial Number \_\_\_\_\_ Part Number \_\_\_\_\_  
Type of Gas (Propane or Natural) \_\_\_\_\_

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.  
Shipments contingent upon strikes, fires and all causes beyond our control.

## HOMCOMFORT HEATING APPLIANCE LIMITED WARRANTY



Mountain View Hearth Products  
manuals.stove-parts-unlimited.com



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United States Stove Company.



Manufactured for:  
United States Stove Company  
227 Industrial Park Road, P.O.Box 151, South Pittsburg, TN  
37380  
PH: (423) 837-2100