



1915 W. Saunders Street
Mt. Pleasant, IA 52641

NOVUS SERIES

TOP DIRECT VENT GAS APPLIANCE

GND30/33/36 & GNDH30/33/36

REAR DIRECT VENT GAS APPLIANCE

GNRC33/36 & GNRH36

INSTALLATION & OPERATING INSTRUCTIONS



For residential use - Meets all HUD requirements for manufactured housing installations

U.S. PATENT 5,613,487

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 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.

CAUTION:

Do not expose the appliance to the elements (such as rain, etc.)

WARNING!

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

Please retain this manual for future reference.

Table of Contents

A. Preparation	2
NOVUS Nomenclature	3
B. Location and Clearances	5
C. Framing	7
D. Setting the Firebox	7
E. Venting - Horizontal Termination	8
F. Venting - Vertical Termination	12
G. Venting - Framing & Construction	14
H. Vent Assembly	16
I. Utilities	18
J. Finishing	21
K. Firebox Preparation	21
L. Determining the Ignition Type	23
M. Lighting Instructions	23
N. Seasonal Check List	25
O. Start-up Issues	26
P. Maintenance Instructions	27
Q. Cleaning the Glass	28
R. Optional Components	29
S. Replacement Parts	31
Index	34
Warranty	36

A. PREPARATION

U.S. AND CANADA CERTIFICATION

The NOVUS Series Gas Appliance has been tested in accordance with the ANSI standard Z21.88-1998 in the United States, the current CSA 2.33-M98 in Canada, and has been listed by Underwriters Laboratories Inc. for installation as described in this manual. All components are UL, AGA, CGA or CSA safety certified.

LOCAL CODES

This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.

The Novus Series gas appliance has been tested and listed for use in manufactured housing (mobile homes). These installation instructions 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 Manufacturer Home Installations**, ANSI A225.1.

For assistance during installation contact your local dealer or contact the Heatilator Technical Services Department, Hearth Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

HEATILATOR® and NOVUS™ are registered trademarks of Hearth Technologies Inc.

Note: Minimum and maximum clearances must be maintained at all times. Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installation may vary slightly due to individual design preferences.

The illustrations and diagrams used throughout these installation instructions are not drawn to scale.

Tools and building supplies normally required for installation:

Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Fireplace surround
Phillips screwdriver	Caulking material
Tape measure	Gloves
Plumb line	Framing square
Level	Electric drill and bits
Safety glasses	

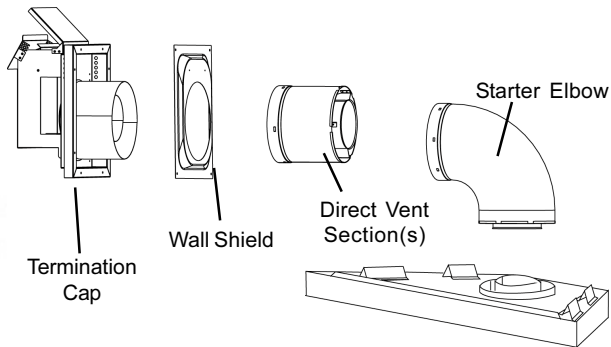
NOVUS NOMENCLATURE

Catalog #	Description
GNDC36LE	Appliance Order Code Number
GN	Gas Novus
D or R	Direct (Top Vent) or Rear Vent
C or H	Circulator or Heater
36	36 - 36" unit 33 - 33" unit 30 - 30" unit
LE	No suffix - Standing pilot, natural gas, refractory firebox L - Standing pilot, propane gas, refractory firebox E - Electronic ignition, natural gas, refractory firebox LE - Electronic ignition, propane gas, refractory firebox
GNDC36LEBC	Appliance Order Code Number with Upgrade Code Number
B	Black firebox
C	Ceramic Glass Upgrade
GNDC36LEBC	Example: Gas NOVUS, direct vent, heat circulating, 36", propane gas, electronic ignition unit with black firebox and ceramic glass
Components	Description
VP45	45° elbow
VP90	90° elbow
VP90ST	90° starter elbow (should be the first 90° elbow used when top venting)
VP4	4" length vent pipe
VP6	6" length vent pipe
VP12	12" length vent pipe
VP24	24" length vent pipe
VP36	36" length vent pipe
VP48	48" length vent pipe
VP6-9	6"-9" slip section vent pipe
VP14-24	14"-24" slip section vent pipe
VP12MI	12" vent pipe - non-unitized (can be cut to length)
VP24MI	24" vent pipe - non-unitized (can be cut to length)
VS4	Vertical vent support
VSS2	Vinyl soffit shield
WS6	Wall shield to ensure horizontal clearances
FS6	Firestop spacer
RF6	Roof flashing (vertical termination for 0/12 to 6/12 pitch)
RF7	Steep pitch roof flashing (for 7/12 to 12/12 pitch)
VP-TB1	Basement vent cap
VP-VT1	Horizontal terminal cap
VP-VT1X	Horizontal terminal cap
CS	Cap shield
VP-TV	Vertical terminal cap
VP-TH	Horizontal vent terminal cap
VP-TR	Horizontal terminal cap with 5" collar length
VP-TR2	Horizontal terminal cap with 3.5" collar length
VP-THK	Horizontal termination kit (VP-TH terminal cap, VP6-9 section, VP90ST starter elbow, wall shield)
VP-THK-MI	Horizontal termination kit (VP-TH terminal cap, VP24MI vent section, VP90ST starter elbow, wall shield)
VP-TRK	Rear vent kit (VP6-9 slip section, WS6 wall shield, VP-TR terminal cap with heat shield)
VP-TRK2	Rear vent kit (VP4, WS6 wall shield, VP-TR2 terminal cap with heat shield)

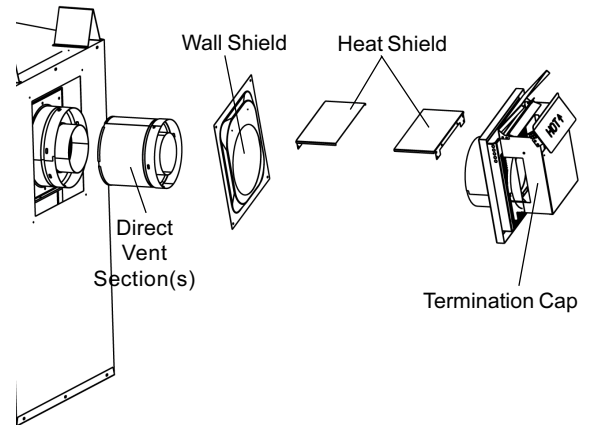
The first name in fireplaces

TYPICAL HORIZONTAL INSTALLATIONS

TOP VENT

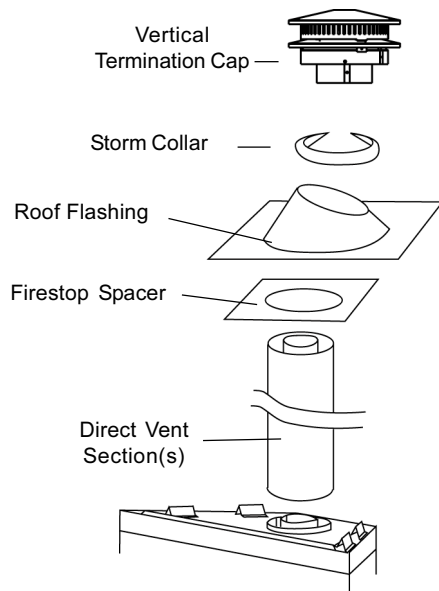


REAR VENT

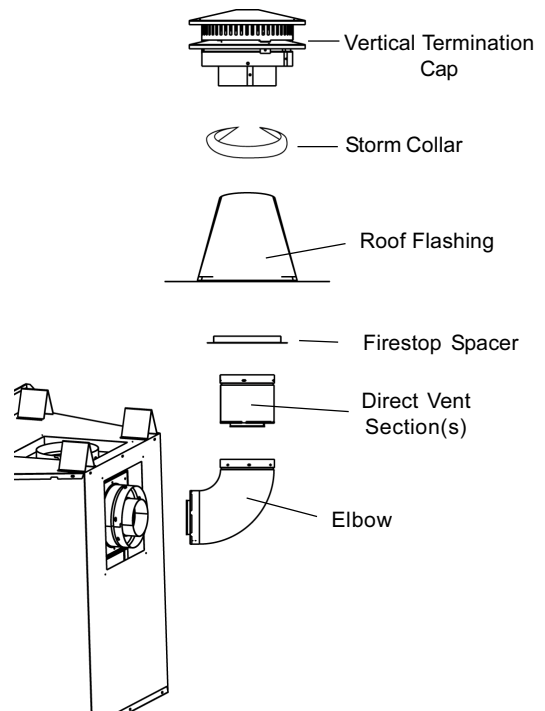


TYPICAL VERTICAL INSTALLATIONS

TOP VENT



REAR VENT



B. LOCATIONS AND CLEARANCES

1. REAR VENT

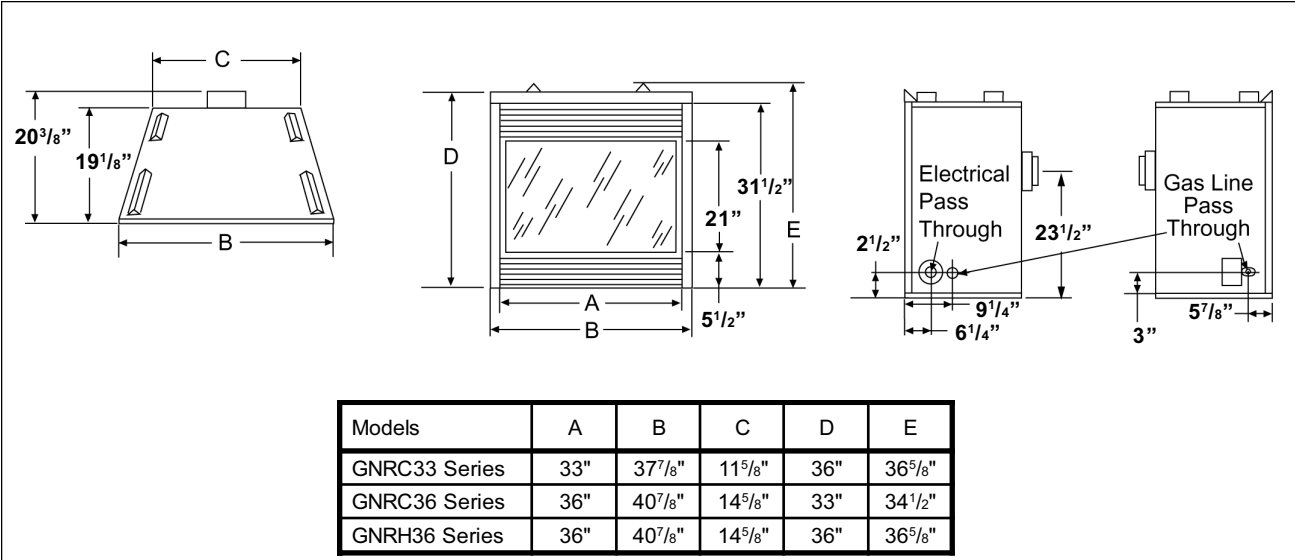


Figure 1 - Rear Vent Firebox Dimensions

2. TOP VENT

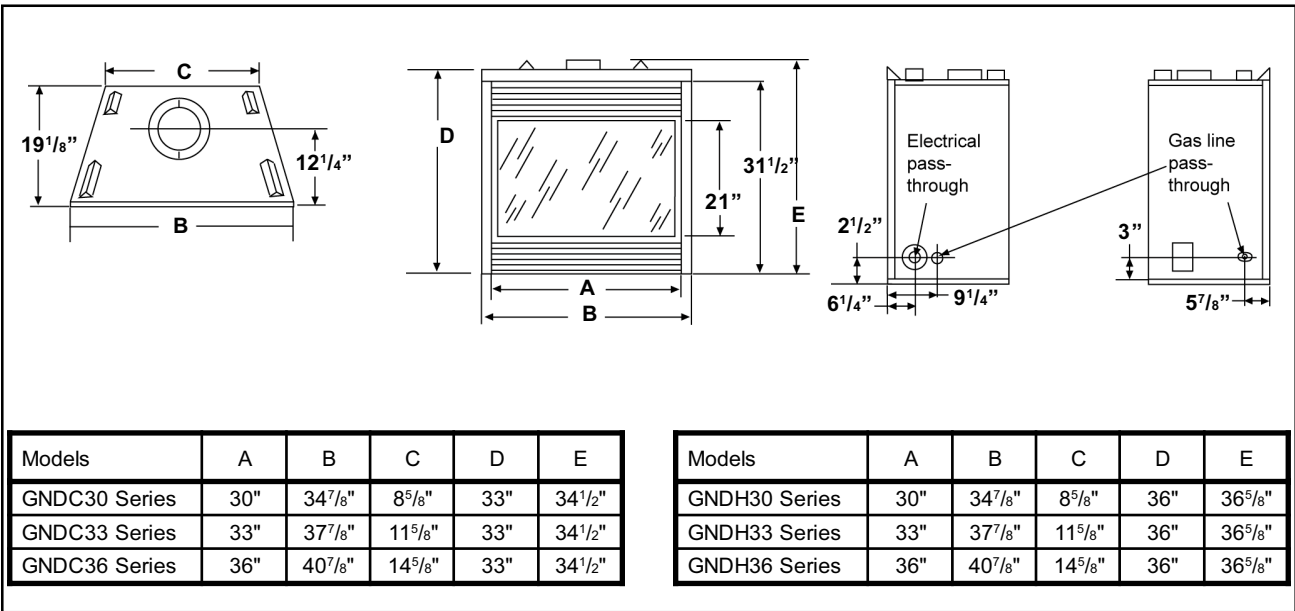


Figure 2 - Top Vent Firebox Dimensions

WARNING!

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

3. APPLIANCE LOCATIONS AND SPACE REQUIREMENTS

Figure 3 illustrates a variety of ways the appliance may be located in a room. The NOVUS Series may be installed directly on the floor or raised on a hearth. These appliances are certified for installation in a bedroom, bed/sitting room or in mobile homes in the U.S. and Canada.

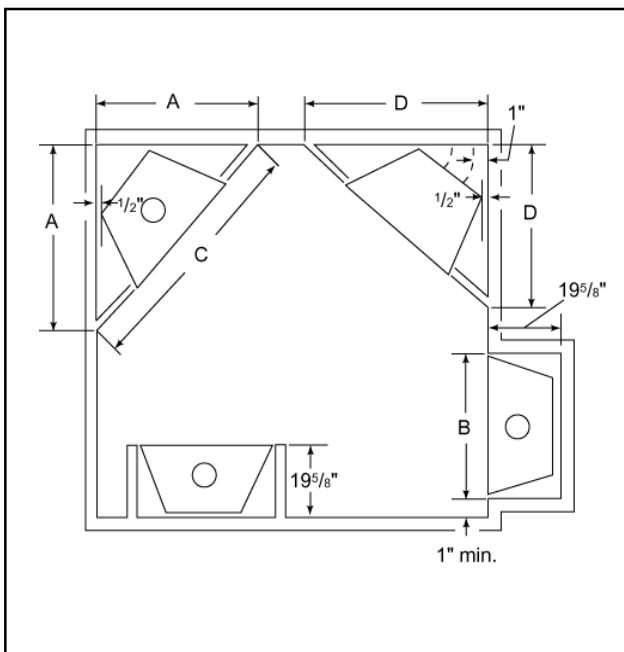


Figure 3
Appliance Locations

Models	A	B	C	D
GNDC30 Series	34 ¹ / ₄ "	35 ⁷ / ₈ "	48 ¹ / ₂ "	-
GNDC33 Series	36 ¹ / ₄ "	38 ⁷ / ₈ "	51 ¹ / ₄ "	-
GNDC36 Series	38 ³ / ₈ "	41 ⁷ / ₈ "	54 ¹ / ₄ "	-
GNRC33 Series	-	38 ⁷ / ₈ "	56"	39 ⁵ / ₈ "
GNRC36 Series	-	41 ⁷ / ₈ "	57 ⁴ / ₅ "	40 ⁷ / ₈ "
GNDH30 Series	34 ¹ / ₄ "	35 ⁷ / ₈ "	48 ¹ / ₂ "	-
GNDH33 Series	36 ¹ / ₄ "	38 ⁷ / ₈ "	51 ¹ / ₄ "	-
GNDH36 Series	38 ³ / ₈ "	41 ⁷ / ₈ "	54 ¹ / ₄ "	-
GNRH36 Series	-	41 ⁷ / ₈ "	57 ³ / ₄ "	40 ⁷ / ₈ "

4. CLEARANCES

Figure 4 shows all clearances that must be maintained around the appliance. See page 11 for termination cap clearances.

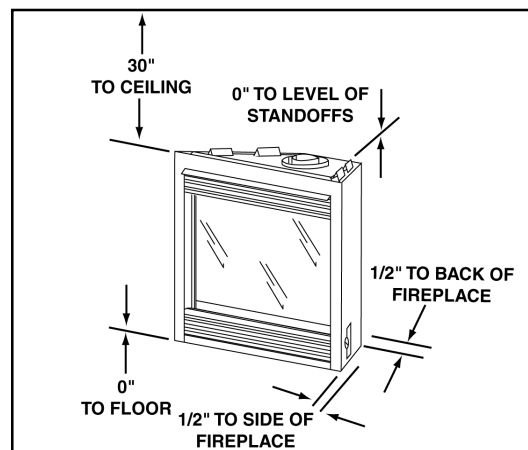


Figure 4
Appliance Clearances to Combustible Materials

CAUTION:

Provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.

CAUTION:

Wear gloves and safety glasses for protection.

C. FRAMING

Figure 5 shows a typical framing of this appliance using combustible materials. Figure 6 shows the mantel heights for mantel projections. All required clearances to combustibles must be adhered to.

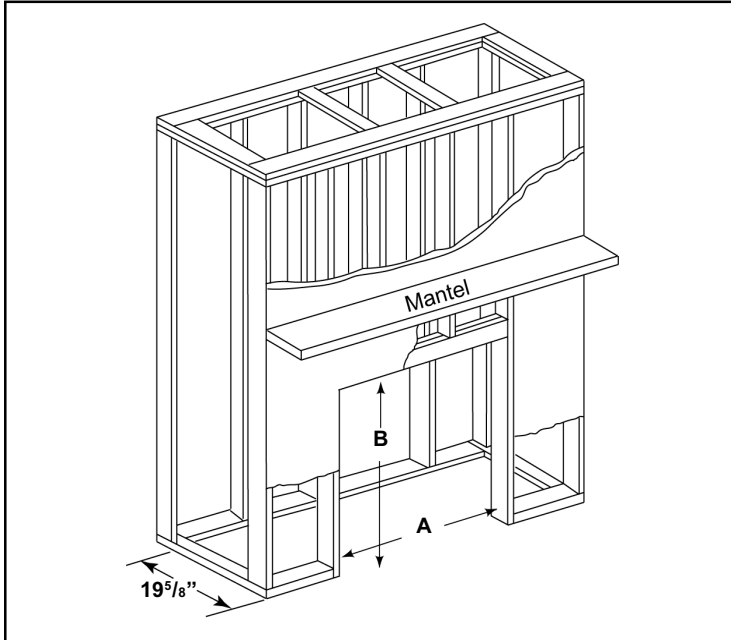


Figure 5 - Framing

Rear Vent Framing Dim.

Models	A	B
GNRC33 Series	38 ⁷ / ₈ "	36 ³ / ₄ "
GNRC36 Series	41 ⁷ / ₈ "	34 ⁵ / ₈ "
GNRH36 Series	41 ⁷ / ₈ "	36 ³ / ₄ "

Top Vent Framing Dim.

Models	A	B
GNDC30 Series	35 ⁷ / ₈ "	34 ⁵ / ₈ "
GNDC33 Series	38 ⁷ / ₈ "	34 ⁵ / ₈ "
GNDC36 Series	41 ⁷ / ₈ "	34 ⁵ / ₈ "
GNDH30 Series	35 ⁷ / ₈ "	36 ³ / ₄ "
GNDH33 Series	38 ⁷ / ₈ "	36 ³ / ₄ "
GNDH36 Series	41 ⁷ / ₈ "	36 ³ / ₄ "

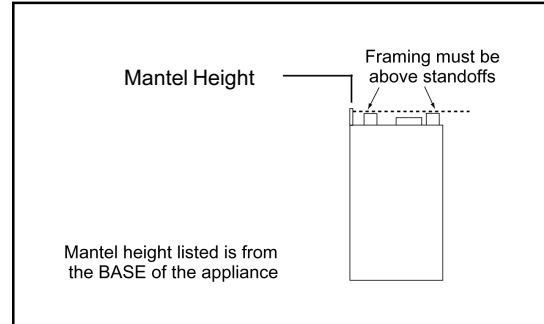


Figure 6 - Mantel Heights

Rear Vent

Models	Mantel Projection	Mantel Height
GNRC33 Series	3" to 12"	42"
GNRC36 Series	0 to 3"	38"
GNRH36 Series	6" to 12"	46"
	3" to 6"	45"
	0 to 3"	36"

Top Vent

Mantel Projection	Mantel Height
9" to 12"	41"
6" to 9"	39"
3" to 6"	38"
0 to 3"	36"

D. SETTING THE FIREBOX

POSITIONING THE FIREBOX

This appliance may be placed on a smooth combustible or noncombustible continuous, flat surface. When the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. Slide the firebox into position and level the appliance from side-to-side and front-to-back. Shim with noncombustible material as necessary.

Secure the appliance by bending out the nailing flanges on each side of the appliance and nail to framing. The nailing flanges have been positioned 5/8 inch back from the front of the firebox to allow the addition of drywall.

WARNING!

This appliance may only use the direct vent system designed for use with the appliance and must not be connected to a chimney flue servicing a separate solid fuel or gas burning appliance.

E. VENTING - HORIZONTAL TERMINATION

1. REAR VENT

a. Clearances

See Figure 7 for clearance information.

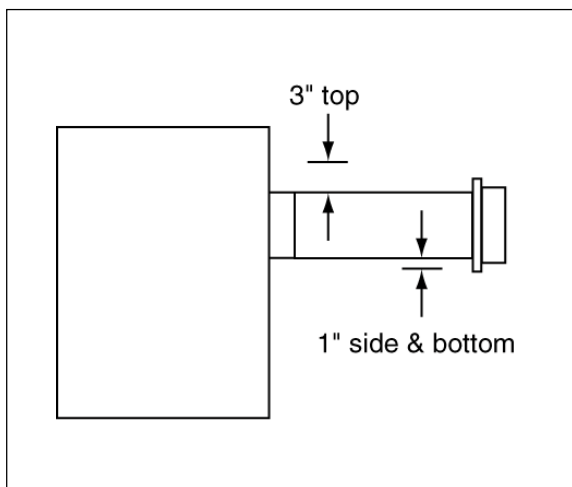


Figure 7 - Clearances

b. No Elbows

The maximum horizontal run with no vertical sections of vent is 18" from the back of the appliance to the base of the cap. See Figure 8.

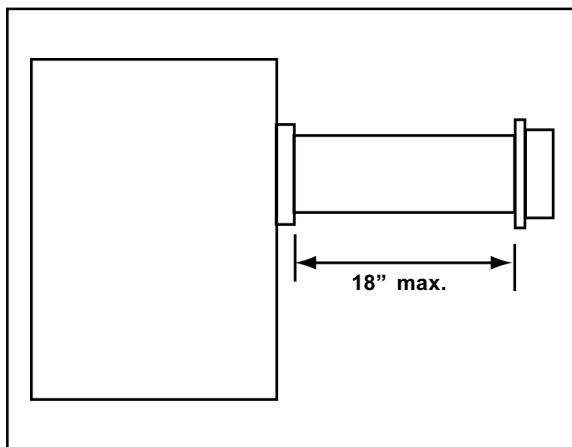


Figure 8 - Rear Vented Appliances

NOTE: Exterior wall thickness must be a minimum of 4" to a maximum of 17½".

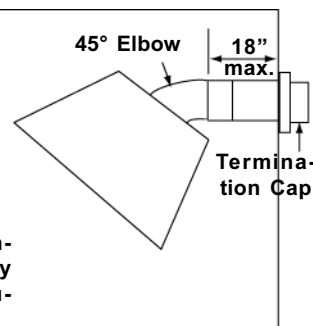
WARNING!

The horizontal run of vent must have a ¼" rise for every 1' of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present a fire hazard.

c. 45° Elbow

For corner installations with horizontal venting, a maximum of one 45° elbow may be used. The maximum horizontal run following the elbow is 18" to the base of the cap. See Figure 9.

VP90 (90°) elbow cannot be used on horizontal termination with no vertical section of vent.



Starter elbow cannot be used in any rear-vent configuration.

Figure 9 - 45° Elbow

WARNING!

If you have chosen horizontal termination, be sure there are no future obstructions from trees, bushes, snow drifts, etc.

CAUTION:

Provisions shall be made to provide adequate combustion and ventilation air.

d. Two Elbows

Figure 10 shows various venting configurations using two elbows to terminate horizontally. A minimum of a 1' vertical section is required any time 90° elbows are used when rear venting the appliance. The maximum vertical run is 20' and the maximum horizontal run is 18'.

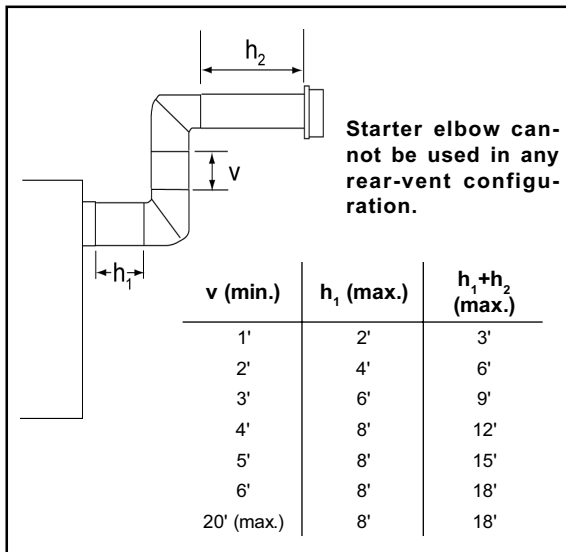


Figure 10 - Two Elbows

e. Three Elbows

Figure 11 shows various venting configurations using three elbows to terminate horizontally. A minimum of a 1' vertical is required any time 90°

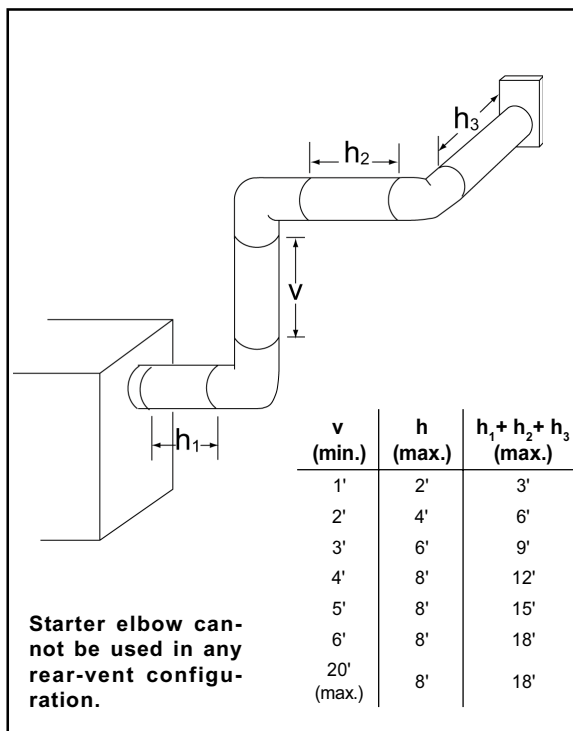


Figure 11 - Three Elbows

elbows are used when rear venting the appliance. The maximum vertical run is 20' and the maximum horizontal run is 18'.

2. TOP VENT

a. Clearances

See Figure 12 for clearance information.

b. Vent Lengths

Various venting configurations are shown in Figures 13-16 from which maximum vent lengths can be determined.

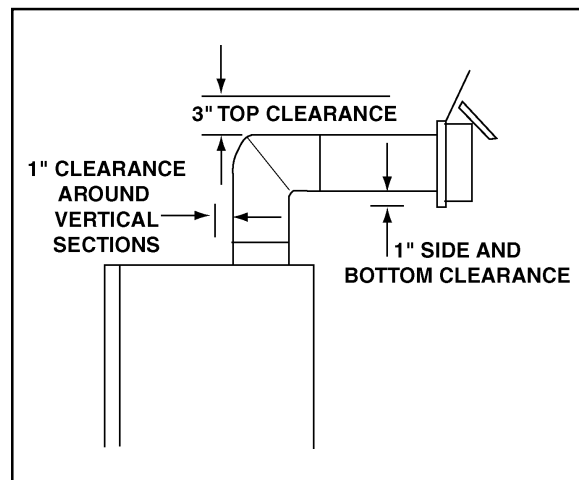


Figure 12 - Clearances

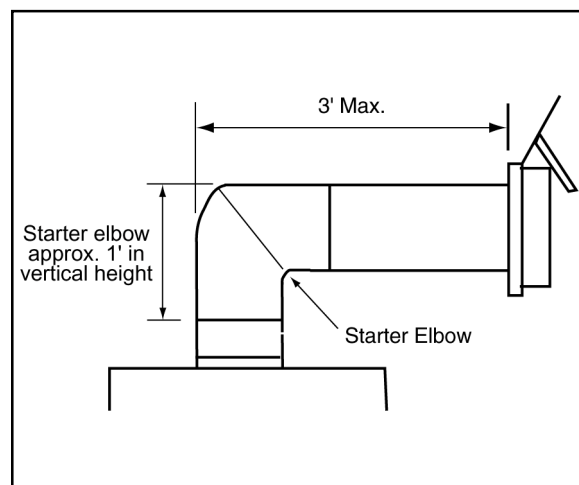


Figure 13 - Vent Lengths with one Elbow
(Less than 2' vertical, 3' maximum horizontal)

NOTE: Exterior wall thickness must be a minimum of 4" to a maximum of 23½".

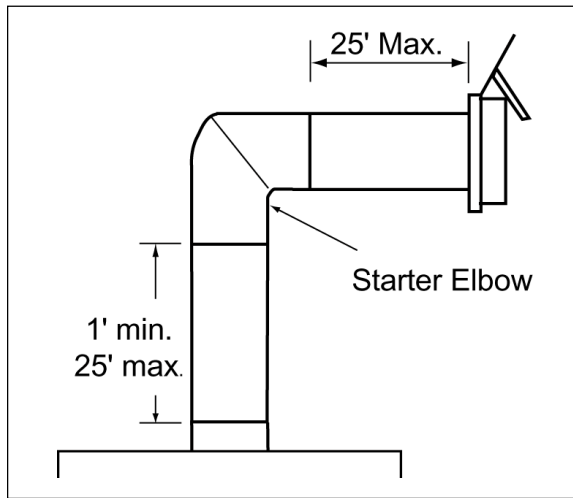


Figure 14 - Vent Lengths with One Elbow
(2' vertical or more, 25' maximum horizontal)

WARNING!
Always maintain minimum air space clearances or greater around the chimney system. See page 9. Do not pack air spaces with insulation or other material.

NOTE: To ensure proper operation, verify all venting and the termination are unobstructed.

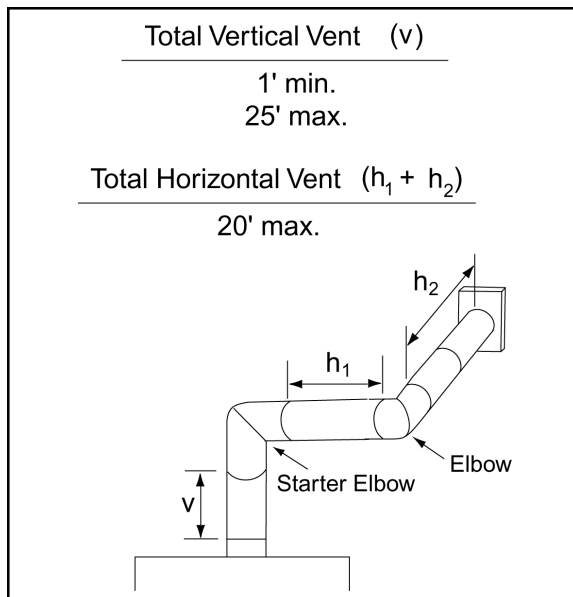


Figure 15
Vent Lengths with Two Elbows

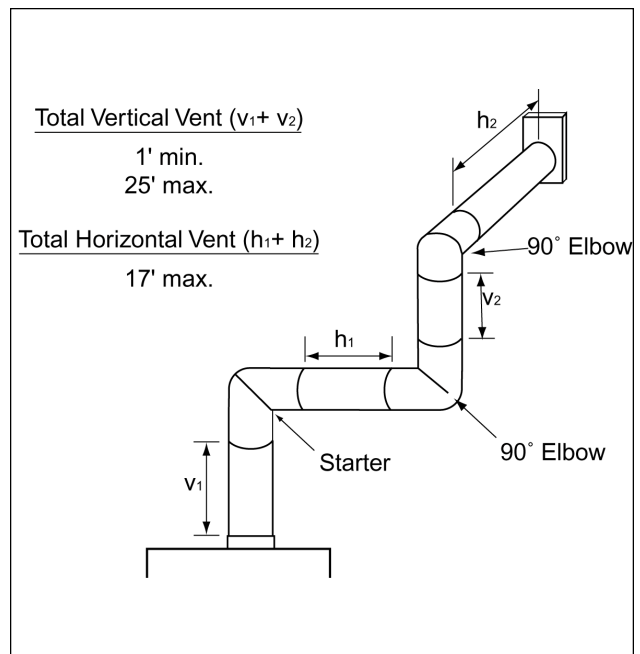
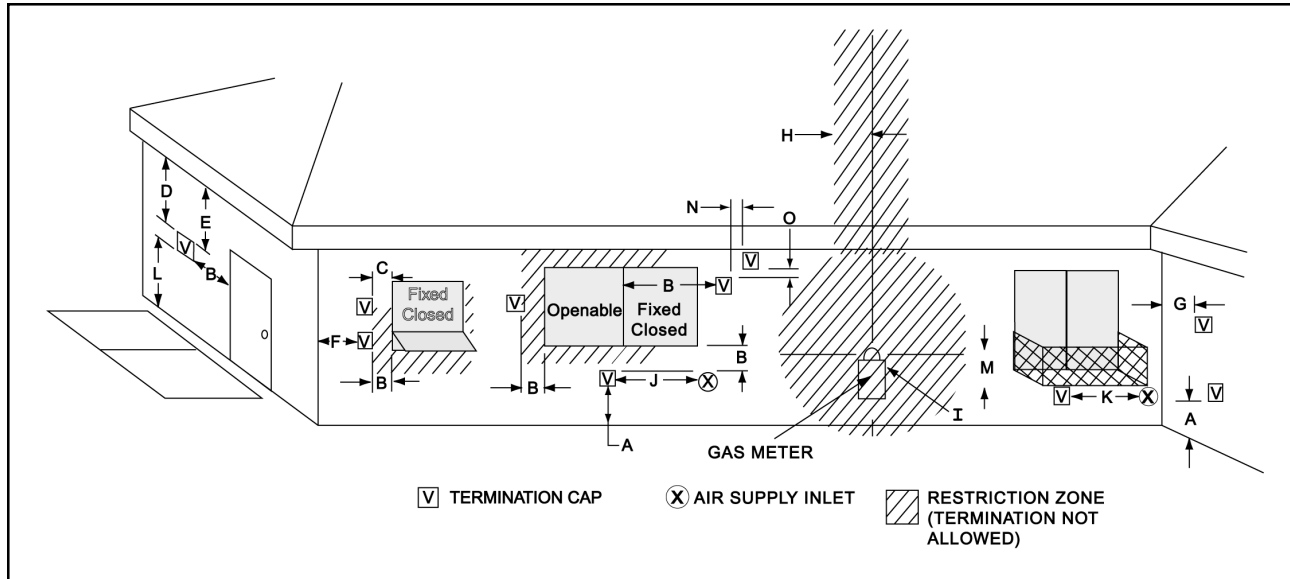


Figure 16
Vent Lengths with Three Elbows

3. TERMINATION CAP LOCATION



Dimension Descriptions

- A** Clearance above the ground, a veranda, porch, deck or balcony - 12 inches (30 cm) minimum. *
- B** Clearance to window or door that may be opened - 12 inches (30 cm) minimum. *
- C** Clearance to permanently closed window – 12 inches (30 cm) minimum - recommended to prevent condensation on window.
- D** Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the centerline of the terminal – 18 inches (46 cm) minimum. **
- E** Vertical clearance to unventilated soffit - 12 inches (30 cm) minimum. **
- F** Clearance to outside corner - 6 inches (15 cm) minimum.
- G** Clearance to inside corner - 6 inches (15 cm) minimum.
- H** Not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally* from the center line of the regulator
- I** Clearance to service regulator vent outlet - 6 feet (1.8m) minimum. *
- J** Clearance to non-mechanical air supply inlet into building or the combustion air inlet to any other appliance - 12 inches (30 cm) minimum. *
- K** Clearance to mechanical air supply inlet - 6 feet (1.8 m) minimum. *
- L** Clearance above a paved sidewalk or paved driveway located on public property - 7 feet (2.1 m) minimum.
A vent may not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- M** Clearance under veranda, porch, deck or balcony - 12 inches (30 cm) minimum. * Recommended 30 inches (76 cm) for vinyl or plastic.
Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor. *
- N** Clearance above/below horizontal termination cap – 12 inches (30 cm) minimum.
- O** Clearance between two horizontal termination caps – 12 inches (30 cm) minimum.
- * As specified in CGA B149 Installation Codes
Note: Local codes or regulations may require different clearances.
- ** Clearance required to vinyl soffit material – 30 inches (76 cm) minimum. With a vinyl soffit shield – 18 inches (46 cm) minimum.

F. VENTING - VERTICAL TERMINATION

1. REAR VENT

a. Clearances

See Figure 17 for clearance information.

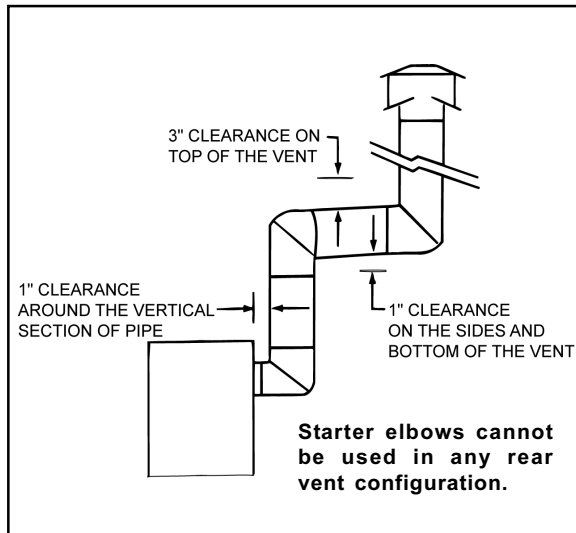


Figure 17 - Vertical Termination Clearances

b. Vent Lengths

Various venting configurations are shown in Figure 18 from which maximum vent runs can be determined.

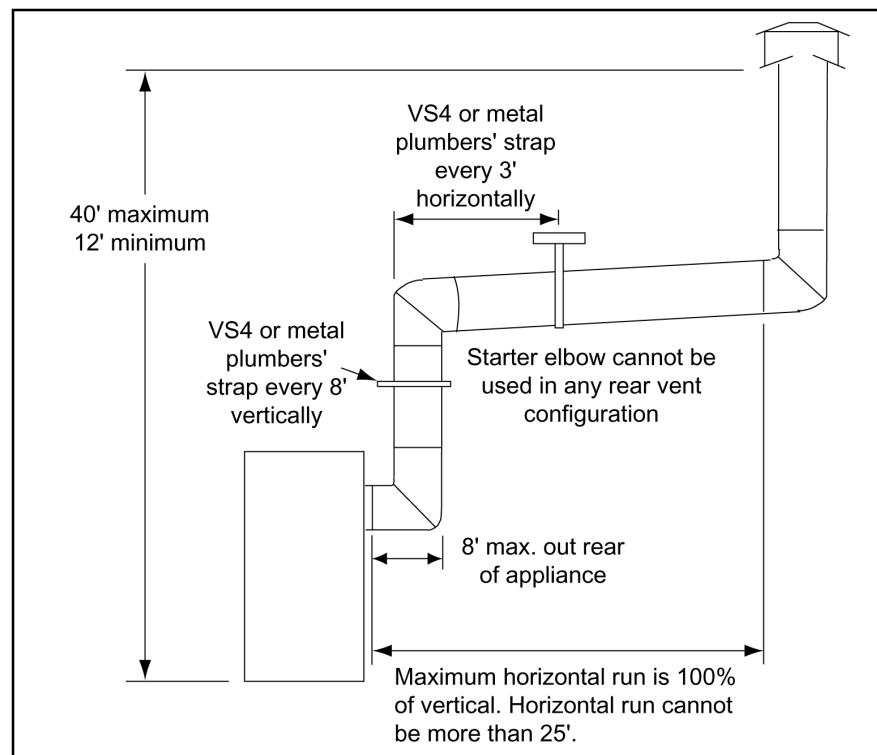


Figure 18 - Vertical Termination Vent Lengths

WARNING!

Always maintain minimum clearances or greater around the vent system. Do not pack air spaces with insulation or other material.

WARNING!

The horizontal run of vent must have a 1/4" rise for every 1' of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may create a fire hazard.

NOTE: Horizontal runs will require the use of one vent support (or metal plumber's strap) for every 3' of vent.

2. TOP VENT

a. Clearances

See Figure 19 for clearance information.

b. Vent Lengths

Various venting configurations are shown in Figures 20-21 from which maximum vent runs can be determined.

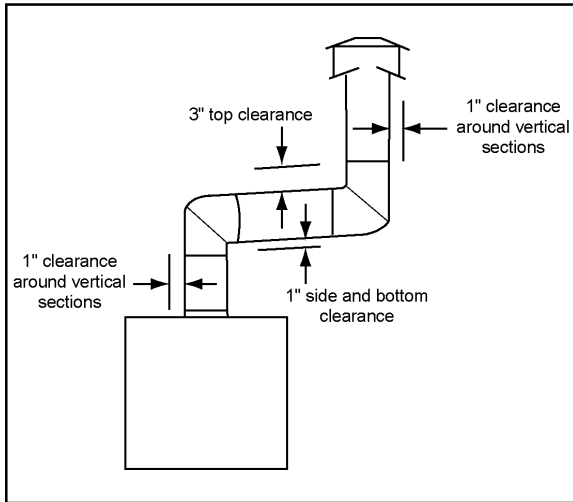


Figure 19 - Vertical Termination Clearances

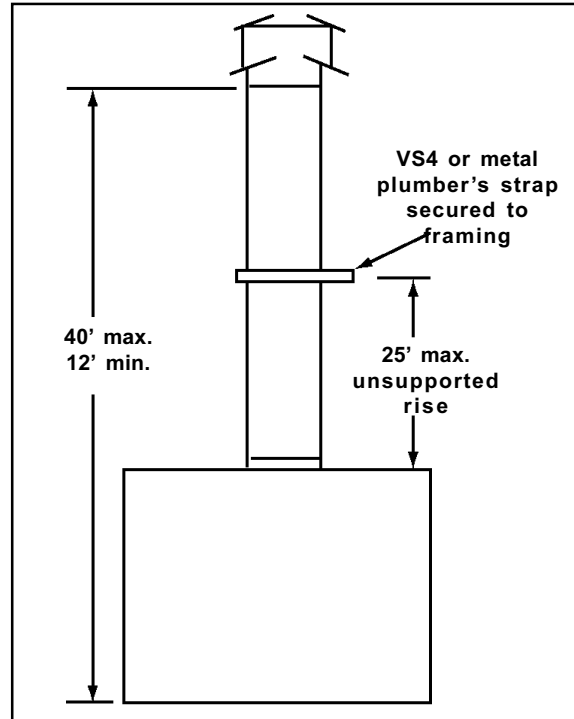


Figure 20 - Vertical Termination Vent Lengths

WARNING!

Always maintain minimum clearances or greater around the chimney system. Do not pack air spaces with insulation or other material.

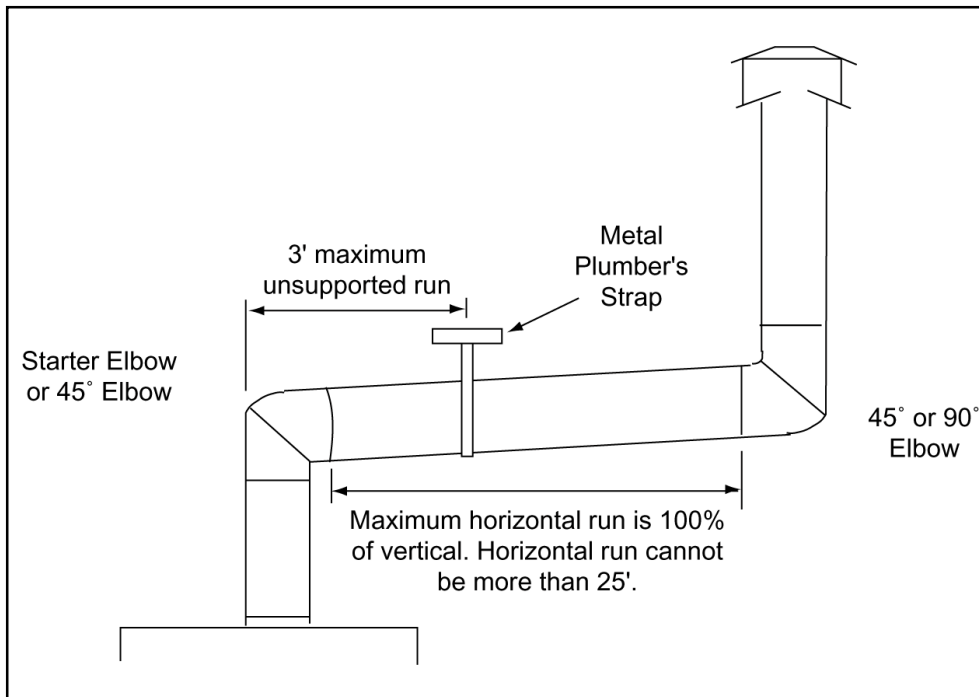


Figure 21 - Vertical Termination Vent Lengths

G. VENTING - FRAMING & CONSTRUCTION

1. INSTALLING THE INTERIOR WALL SHIELD (WS6)

Frame a hole in a combustible wall for an interior wall shield, as shown in Figure 22 (rear vent) and Figure 23 (top vent) whenever a wall is penetrated. This shield maintains minimum clearances and prevents cold air infiltration.

The terminal cap location must meet all local and national codes and not be easily blocked or obstructed. See page 11.

If the hole being penetrated is of noncombustible materials, a 9" diameter hole is acceptable.

Secure the shield to the framing as shown in Figure 24.

The last section of vent may require cutting a piece of minimum installation (MI) pipe or using a slip section pipe, depending upon wall thickness and appliance location. See Figure 25.

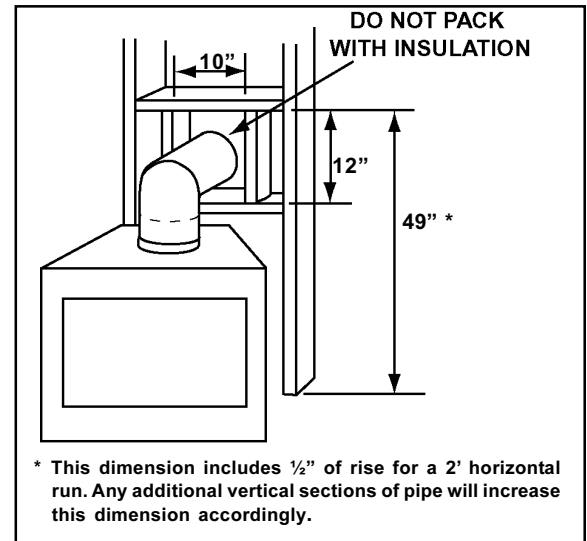


Figure 23 - Exterior Wall Hole - Top Vent

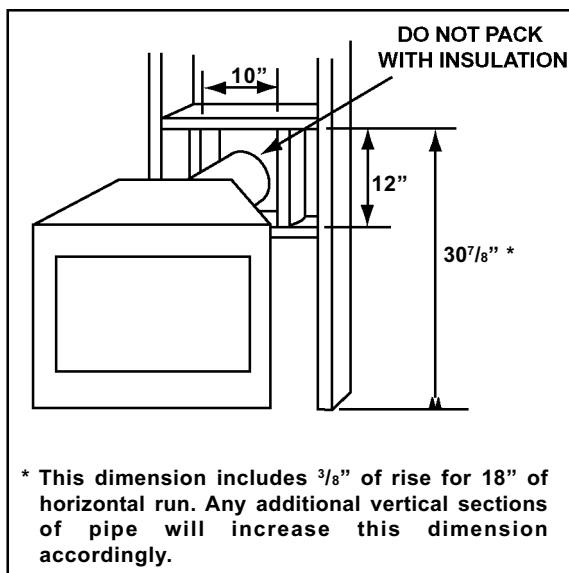


Figure 22 - Exterior Wall Hole - Rear Vent

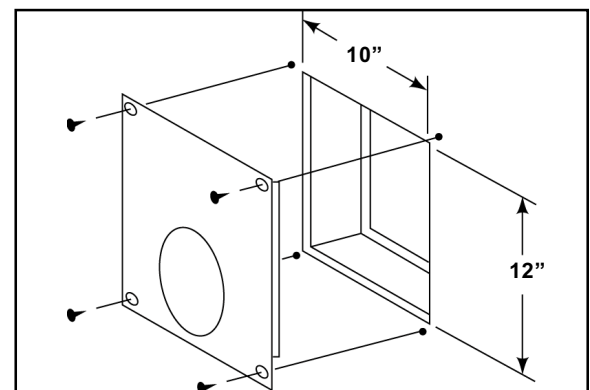


Figure 24 - Interior Wall Shield

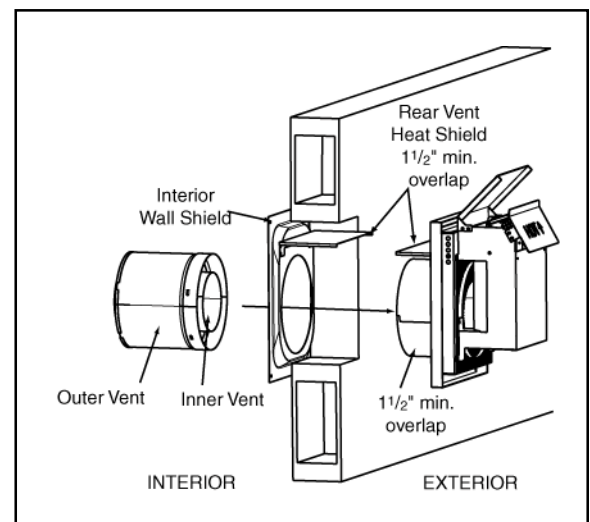
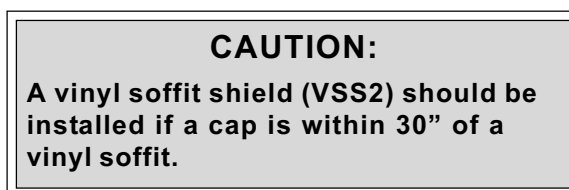


Figure 25 - Venting Through the Wall

2. INSTALLING THE REAR VENT HEAT SHIELD

- For horizontally terminated rear vent appliances, the flue heat shields **MUST** be placed 1" above the top of the vent between the wall shield and the base of the termination cap. The shields are attached to the wall shield and base of the cap with two screws each. When installed, the cap's shield will rest under the wall shield's shield. The shields must have at least 1½" overlap. See Figure 25. Depending on the installation, the shields may be too long and will require trimming. If the shields are too short, material must be added.

b. Minimum Venting Clearances

Horizontal runs off the back of the firebox to the wall shield:

1" sides and bottom of vent

For top clearance, see Figure 26.

Horizontal runs inside a wall (heat shields must be installed):

3" air space on top of vent

1" air space on sides and bottom of vent

Vertical Runs:

1" air space around vent.

WARNING!

Always maintain minimum air space clearances or greater around the appliance and chimney system. The flow of combustion and ventilation air must not be obstructed.

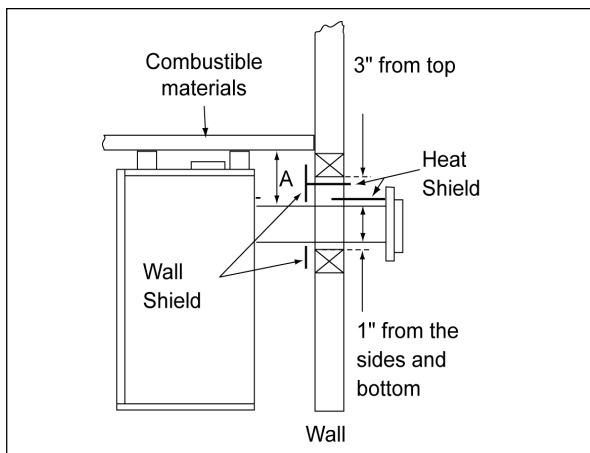


Figure 26
Rear Vented Units Venting Clearances

Model	A
GNRC33 Series	9 1/8"
GNRC36 Series	7"
GNRH36 Series	9 1/8"

3. FIRESTOP SPACER/VENT INSTALLATION

Frame an opening and install a firestop spacer (FS6) whenever the vent penetrates a ceiling/floor area, as shown in Figure 27. Frame the opening with the same sized lumber as used in the ceiling/floor joists. **When installing a top vent, vertical appliance, the hole should be directly above the appliance, unless the flue is offset. DO NOT** pack insulation around the vent.

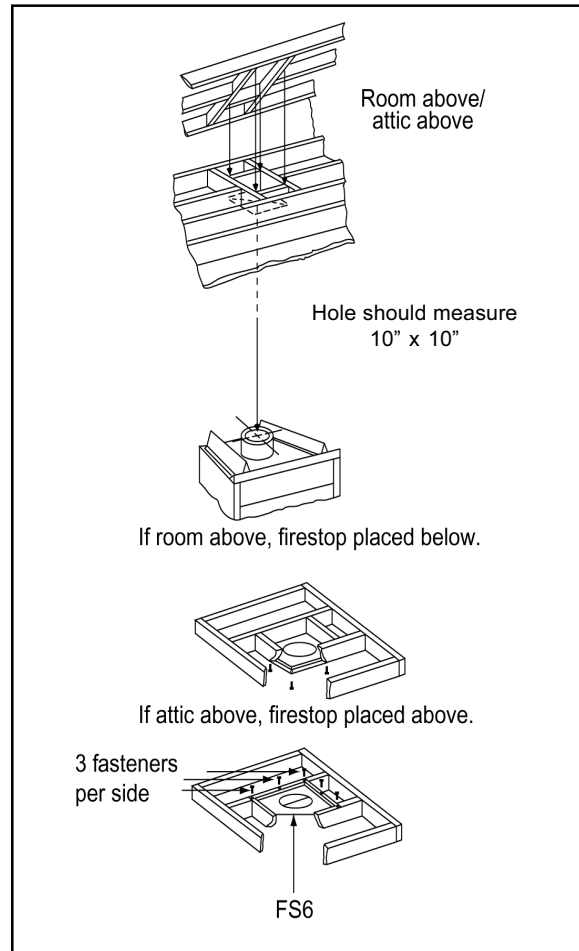


Figure 27 - Installing the Firestop Spacer

4. CHASE/TERMINATION INSTALLATION

Figure 28 and Table 1 specify minimum vent heights for various pitched roofs. Vent sections may have to be cut to a certain length.

These vent heights are necessary for safety and do not ensure draft-free operation. Trees, buildings, adjoining roof lines, adverse conditions, etc. may create a need for a taller vent should down drafting occur.

5. INSTALLING THE VERTICAL TERMINATION CAP

To install the VP-TV, simply slide the inner collar of the cap over the inner vent and place the outer collar of the cap over the outer vent. Secure with three screws into the outer vent.

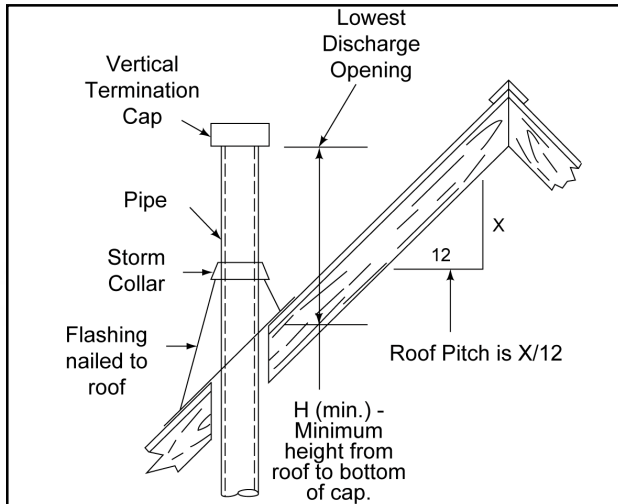


Figure 28 - Chimney Height for Vertical Termination

Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0
6/12 to 7/12	1.25
Over 7/12 to 8/12	1.5
Over 8/12 to 9/12	2.0
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

Table 1 - Vent Height

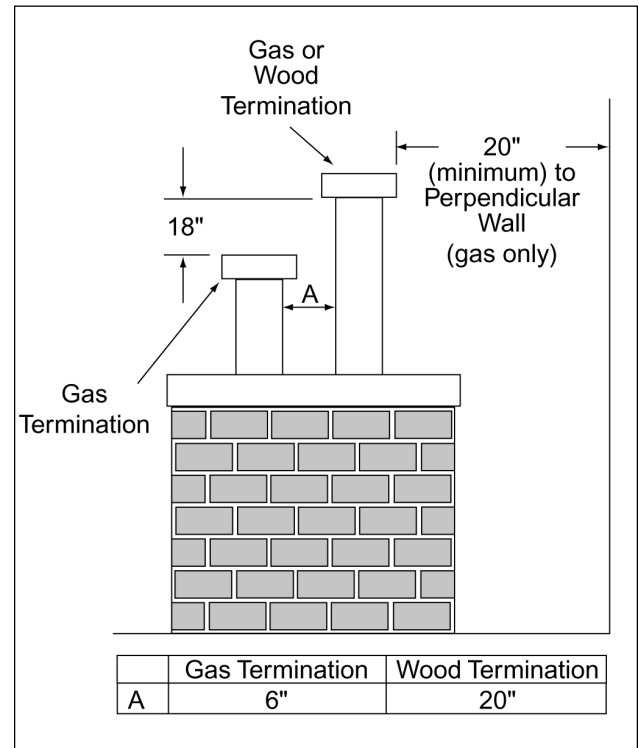


Figure 28a - Multiple Vertical Termination

H. VENT ASSEMBLY

1. ATTACHING THE VENTING TO THE APPLIANCE

To attach the first VP section to the firebox collars, simply slide the flared end of the inner flue of the VP section over the inner collar on the firebox. At the same time, insert the outer flue into the outer collar on the firebox. Push the vent section into the firebox collar until all the lances have snapped into place. Tug slightly on the vent to confirm it has completely locked in place.

2. ASSEMBLING VENT SECTIONS

- Start the flared inner flue of Section "A" over the inner flue of Section "B".
- Insert the outer flue of Section "A" into the outer flue of Section "B". See Figure 29.

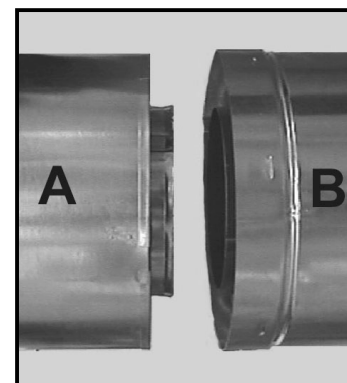


Figure 29

Note: Squeezing the pipe slightly to fit may be necessary.

Once both inner and outer flues are started, press Section "A" into Section "B" firmly until all lances have snapped into place. Tug slightly on Section "A" to confirm it has completely locked into place. See Figure 30.

Note: Make sure that the seams are NOT aligned in order to prevent unintentional disconnection.

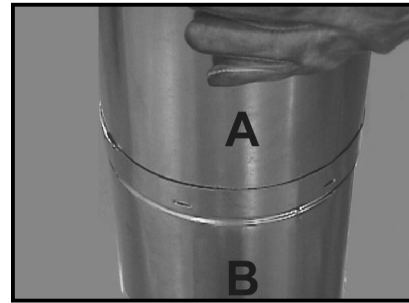


Figure 30

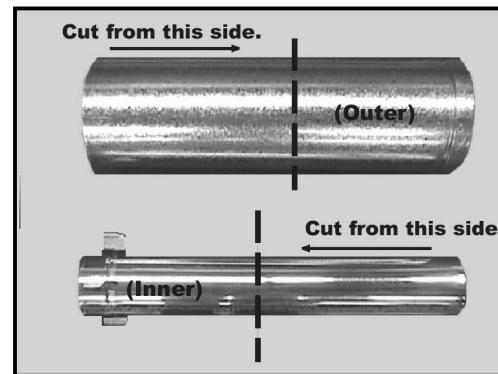


Figure 31

3. ASSEMBLING MINIMUM INSTALLATION (MI) SECTIONS

MI sections are non-unitized so that they can be cut to a certain length. To use these sections, they must be cut to length from the non-expanded end. See Figure 31. They can then be attached by first connecting the expanded end of the MI inner flue with the inner flue from the adjacent vent section and securing with three screws. The expanded portion of the MI inner flue must overlap completely with the untreated end of the adjacent vent section. The outer flue can then be inserted into the adjacent outer flue expanded end and attached to the next vent section with three screws. The other end of the MI vent section can then be attached by fitting a snap lock section to it and snapping it together as normal.

4. ASSEMBLING THE SLIP SECTIONS

Slip sections should be snapped into the first mating piece, then expanded to their desired length, making sure that a 1½" overlap is maintained between the two sections of the slip section. The two sections of the slip section then need to be secured by driving two screws through the overlapping portions of the vent. See Figure 32. This will secure the slip section to the desired length and prevent it from separating. The slip section can then be attached to the next section of vent.

5. DISASSEMBLING VENT SECTIONS (only if necessary)

To disassemble any two pieces of pipe, rotate either section so that the seams on both pipe sections are aligned as shown in Figure 33. They can then be carefully pulled apart.

[2] Screws Required.

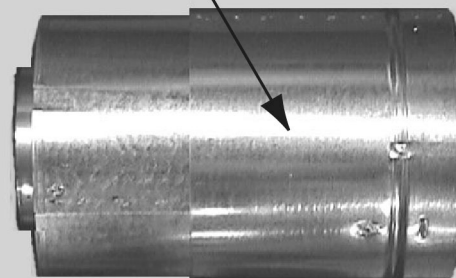


Figure 32

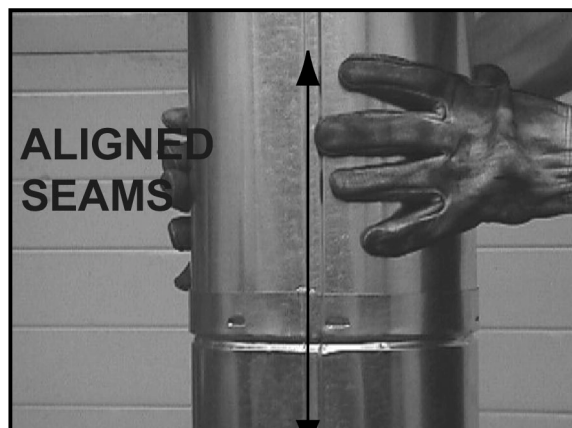


Figure 33

The first name in fireplaces

I. UTILITIES

1. HIGH ALTITUDE INSTALLATION

For U.S. installation, appliances are tested and approved for elevations from 0-2000 feet. When installing this appliance at an elevation above 2000 feet, National Fuel Gas Codes require a decrease of the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet above sea level. Check with the local gas utility for proper orifice size identification. The correct orifice is available from your Heatilator distributor.

For Canada, appliances are certified for elevations from 0-4500 feet. When installing this appliance at an elevation between 0-4500 feet in Canada, the input rating does not need to be reduced. When installing this appliance at an elevation above 4500 feet in Canada, check with local authorities.

2. GAS LINE CONNECTION

Remove the lower grille panel as shown in Figures 34-35. The appliance is provided with a stainless steel flexible connector and manual shutoff valve. The incoming gas line should be piped into the valve compartment and connected to the 1/2" FIP connection provided on the manual shutoff valve. All connections must be tightened and checked for leaks with a soap and water solution or leak detector. Bleed the gas line to extract any air that may have been trapped inside the pipe. See Figure 36 to connect the gas line. (Gas connections may also be made by taking out the knockout in the bottom pan to allow connection through the bottom of the firebox.)



Figure 34 - Lower Grille Panel Removal

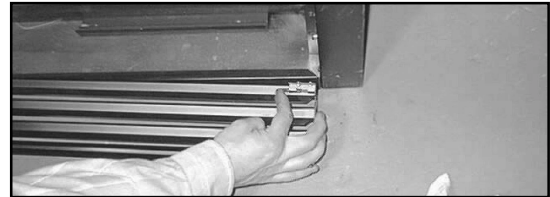


Figure 35 - Lower Grille Panel Removal

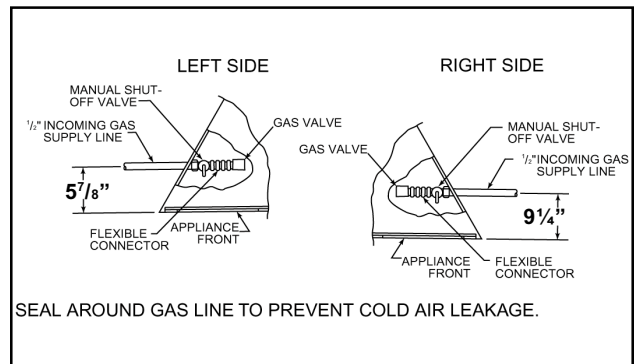


Figure 36 - Gas Line

Note: This appliance and its individual shutoff 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 individual manual 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).

3. GAS PRESSURE

On both the standing pilot and the electronic ignition gas valves, the inlet pressure and a manifold (outlet) pressure tap are available on the face of the valve. Pressure taps are immediately upstream of the gas supply connection and accessible for test gauge connection. Table 2 shows optimum gas pressure information. Consult your local gas company for assistance in determining the proper orifice for you altitude or refer to ANSI Z223.1-latest edition, Appendix F.

4. WIRING

Note: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code CSA C22.1.

Note: Optional Accessories Requirements: Wiring for optional accessories should be done now to avoid reconstruction.

CAUTION:

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

This standing pilot appliance does not require a 110V AC supply to operate. It is suggested that a 110V junction box be installed with a switched outlet for the optional fan and an always-powered outlet for the optional remote control.

Only heater-listed appliances may be connected to a thermostat (not supplied). Use a thermostat that is compatible with a millivolt gas valve. See Figure 37.

NOVUS	
Inlet gas supply pressure (NG)	4.5 (min) - 7.0 (max)*
Optimum manifold pressure (NG)	3.5*
Inlet gas supply pressure (LP)	11.0 (min) - 14.0 (max) *
Optimum manifold pressure (LP)	10*
Input Rate (NG)	
GNDC36 Series	27,000 BTU/hr
GNDH/RH 36 Series	25,000 BTU/hr
GNDC/DH/RH 33 Series	25,000 BTU/hr
GNDC/DH 30 Series	24,000 BTU/hr
Input Rate (LP)	
GNDC/DH/RH 36 Series	25,000 BTU/hr
GNDC/DH/RH 33 Series	25,000 BTU/hr
GNDC/DH 30 Series	24,000 BTU/hr
Natural Gas Orifice Size	
GNDC/DH/RH 36 Series	.101 in/2.56 mm
GNDC/DH/RH 33 Series	.101 in/2.56 mm
GNDC/DH 30 Series	.096 in/2.43 mm
Propane (LP) Gas Orifice Size	
GNDC/DH/RH 36 Series	.059 in/1.50 mm
GNDC/DH/RH 33 Series	.059 in/1.50 mm
GNDC/DH 30 Series	.059 in/1.50 mm

* Inches water column

Table 2 - Gas Information for Electronic and Standing Pilot Appliances

WARNING!

This standing pilot appliance DOES NOT require a 110V AC supply for operation. Connecting the appliance wall switch wires to 110V AC supply will cause the appliance to malfunction and destroy the valve and thermopile.

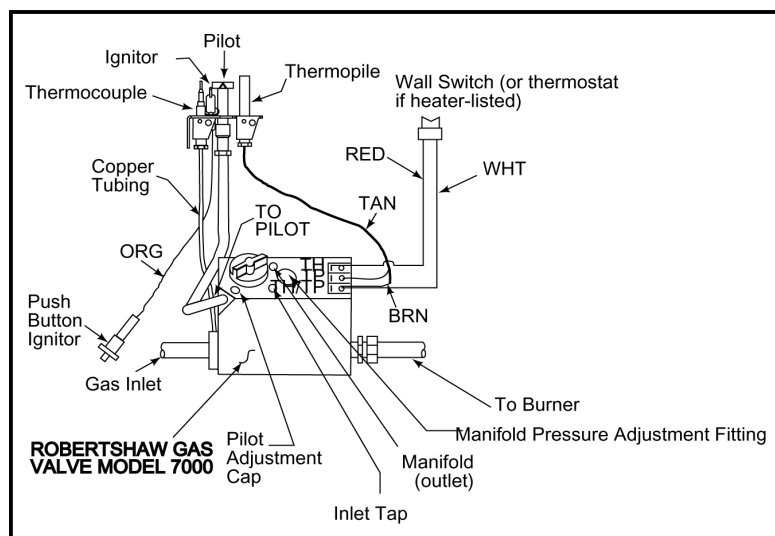


Figure 37 - Standing Pilot Ignition Wiring Diagram

b. Electronic Ignition

- 1) This electronic ignition appliance requires a 110V AC supply to operate. It is suggested that a switched 110V junction box with two switched outlets be installed to power the optional remote control and/or fan.
- 2) Only heater-listed appliances may be connected to a thermostat. If connecting a 24V thermostat (not supplied), disconnect the black wire from the transformer at the ignition control. Connect the thermostat wires between the ignition control and the black wire (from transformer). See Figure 38a.

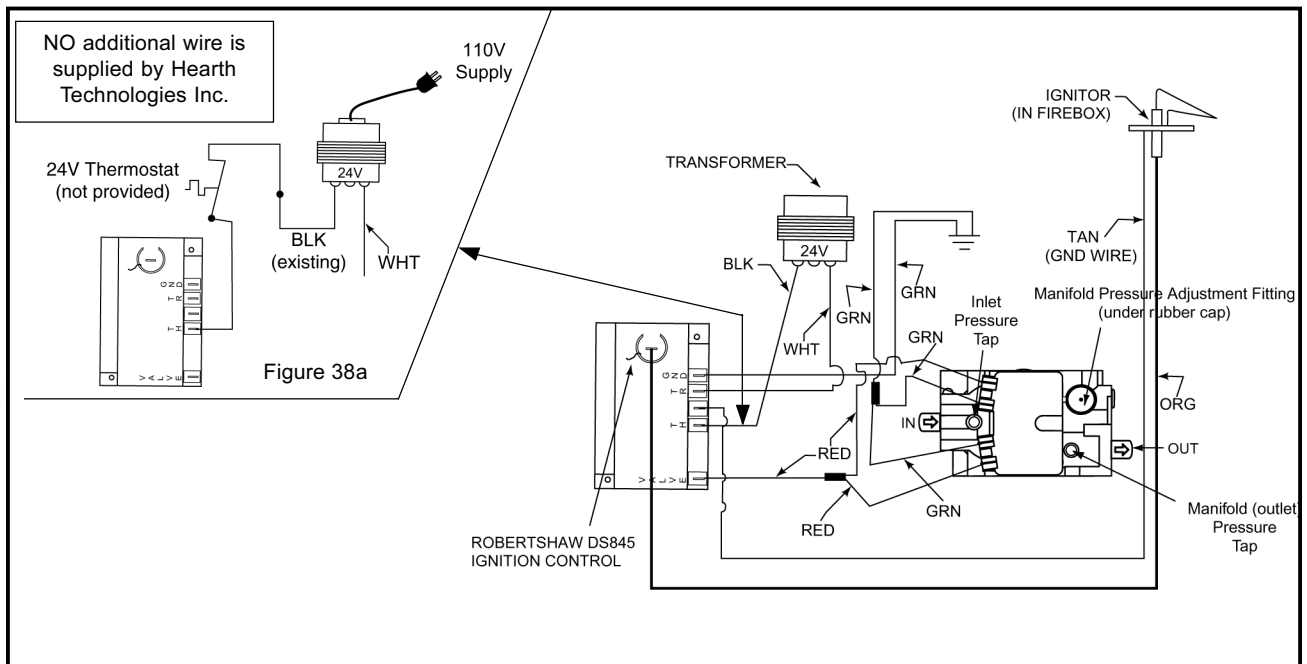


Figure 38 - Electronic Ignition Wiring Diagram

c. Junction Box Wiring

We recommend you operate the two outlets on separate circuits. This allows independent operation of the appliance and fan. Independent operation is obtained by using minimum 14-3 with ground Romex and separating the two outlets by breaking out the tab as shown in Figure 39.

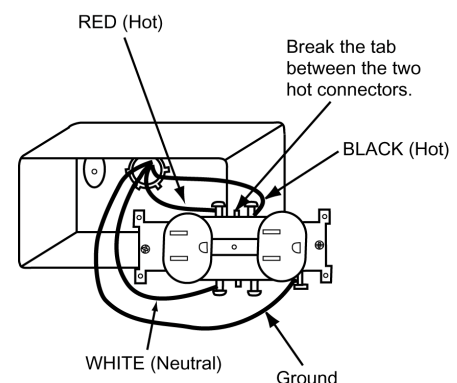


Figure 39 - Junction Box Detail

J. FINISHING

1. COMBUSTIBLE FINISHING MATERIAL

Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame proofed or not, plastered or unplastered (this includes drywall).

2. NONCOMBUSTIBLE FINISHING MATERIAL

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or combination thereof, or have a UL Fire rating of Zero (0).

3. HIGH TEMPERATURE SEALANT MATERIAL

Sealants that will withstand high temperatures: General Electric RTV103 (Black) or equivalent; Rutland, Inc. Appliance Mortar #63 or equivalent.

A high temperature sealant, 1/8" wide minimum, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 40.

4. COMBUSTIBLE MANTEL

A combustible mantel may be installed. Please refer to Figures 5-6, page 7.

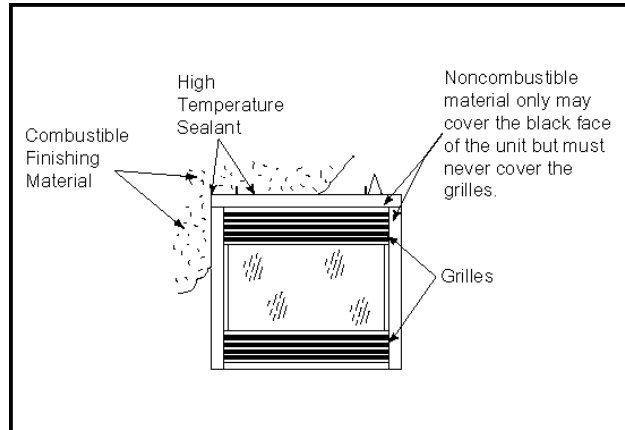


Figure 40 - Finishing Materials

WARNING!

Grilles on this appliance cannot, in any way, be covered as it may create a fire hazard.

K. FIREBOX PREPARATION

1. UPPER GRILLE PANEL REMOVAL

Lift upward on the upper grille panel and pull out.

2. ATTACHING THE HOOD

The hood is to be located above the glass panel. The hood must be attached or a fire hazard may result. Locate the four screws just inside the upper section of the firebox. Position the hood and slide into position. Tighten the four screws. See Figure 41.

3. GLASS AND SCREEN REMOVAL

See page 28 of this manual.

4. FIREBOX PREPARATION

The log set should look similar to that in Figure 42 or 43.



Figure 41 - Installing the Hood

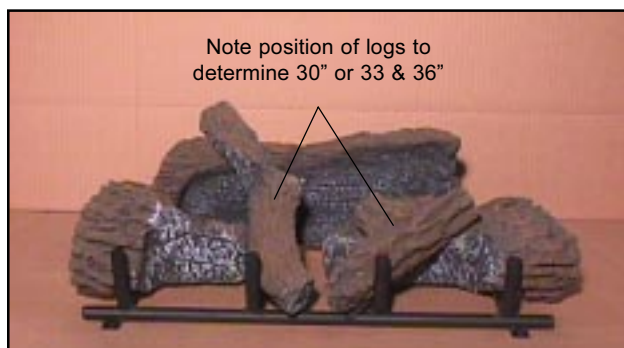


Figure 42 - 30" Log Set for NOVUS



Figure 43 - 33" & 36" Log Sets for NOVUS

5. PLACING THE LAVA ROCK AND VERMICULITE

See Figure 44 for lava rock and vermiculite placement.

6. PLACING THE ROCK WOOL

Place a small amount of 1/2" diameter pieces (dime-size) of rock wool on the burner pan so that the rock wool touches but does not cover the holes in the burner pan. This will provide the "glowing embers" look. See Figure 44.

7. GLASS AND SCREEN REPLACEMENT

See page 28 of this instruction manual.

WARNING! RISK OF CARBON MONOXIDE!
Do not hit or strike glass. Do not operate this appliance with the glass removed, broken, or not sealed.

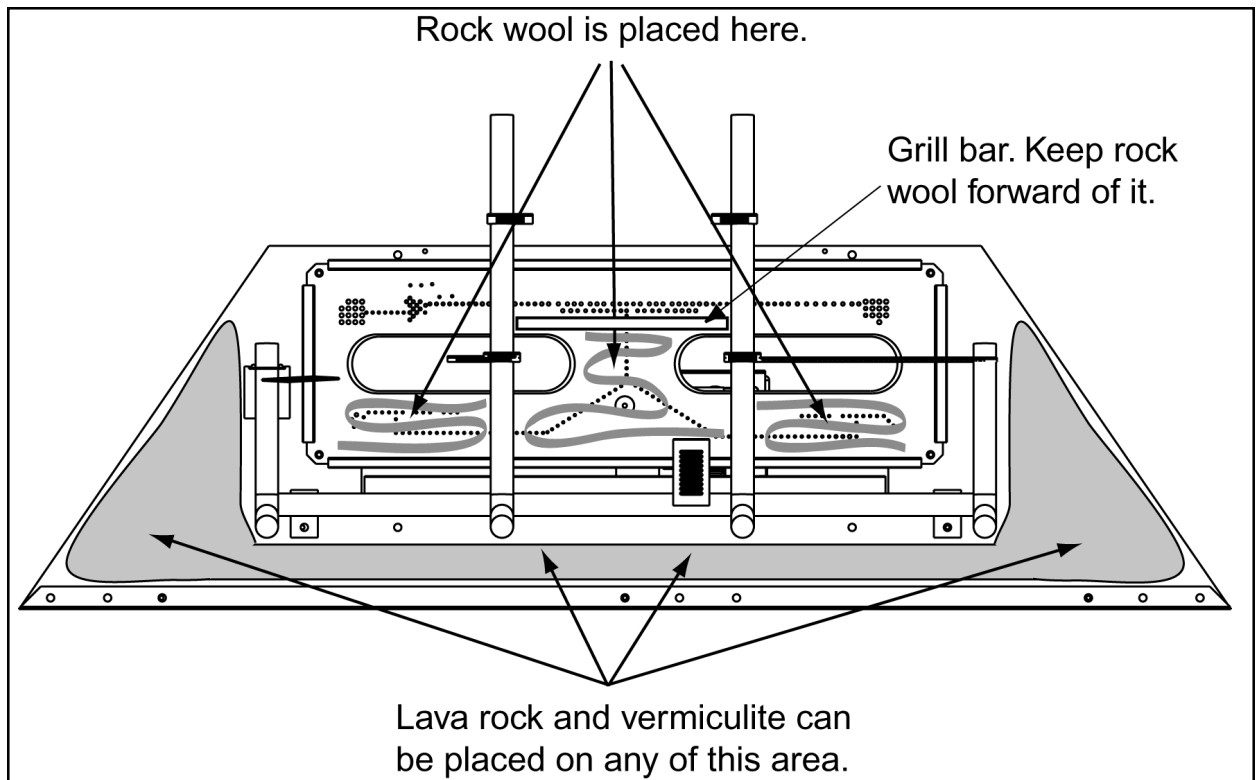


Figure 44
Placing the Vermiculite and Lava Rock
(Logs removed for clarity)

L. DETERMINING THE IGNITION TYPE

To determine whether your appliance is an electronic ignition or a standing pilot ignition, remove the lower panel to examine the wiring system. If your system has a red ignitor button (as shown in Figure 45), you own a standing pilot ignition appliance. If no red ignitor button is present, you have an electronic ignition appliance.

You may also check the rating label located on the inside of the lower panel to determine ignition type.

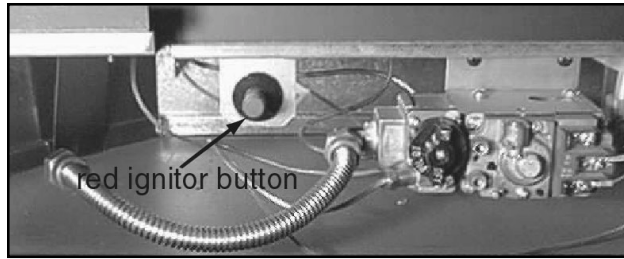


Figure 45 - Standing Pilot Ignition

M. LIGHTING INSTRUCTIONS

1. ELECTRONIC IGNITION

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING!

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

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

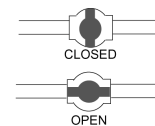
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to turn the gas shut-off valve. Never use tools. If the gas shut-off valve will not move 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 the 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.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Turn wall switch to the "OFF" position.
3. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light burner by hand.
4. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go on to the next step.
5. To turn on burner, turn on the wall switch.
6. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch or set the thermostat to the lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Turn gas shut-off valve to the closed position.
4. Replace the control access grill.



2. STANDING PILOT IGNITION

FOR YOUR SAFETY READ BEFORE OPERATING

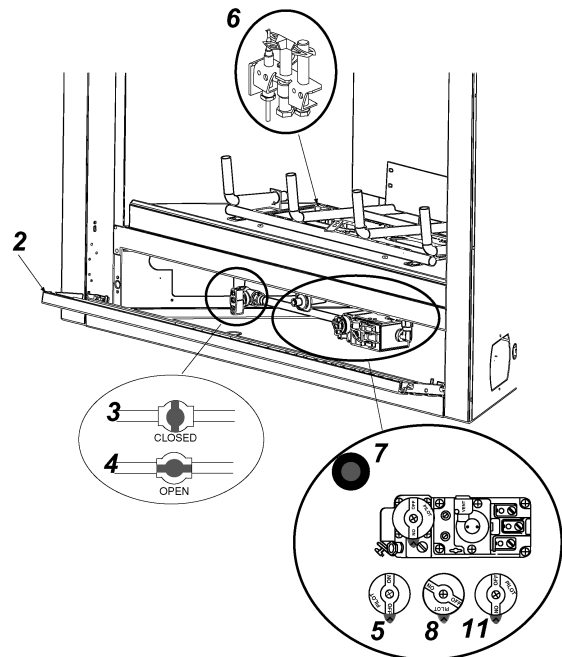
WARNING! If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This gas appliance has a manual ignition device that lights the pilot. 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 electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the 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 to light the pilot. 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 the 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.

LIGHTING INSTRUCTIONS

STOP! READ THE SAFETY INFORMATION ABOVE ON THIS LABEL!

1. Turn off all wall switches to the appliance.
2. Raise control access panel. Turn wall switch to the "OFF" position or set thermostat to lowest setting.
3. Turn gas shut-off valve to "CLOSED". Wait 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 on this label. If you don't smell gas, go to the next step.
4. Turn gas shut-off valve to "OPEN".
5. Turn pilot knob clockwise to "OFF". (Knob may have to be depressed to pass the "PILOT" position.)
6. Locate pilot assembly inside the appliance.
7. Locate red ignitor button.
8. Turn pilot knob to "PILOT" and push in.
9. Continue to hold in pilot knob and push the red ignitor button 12-15 times until small blue pilot flame appears.
10. Continue to hold in pilot knob for approximately one minute. Pilot should remain lit. If pilot goes out, wait 5 minutes and repeat Steps 4-9.
11. Release and turn the knob counterclockwise to "ON". To light main burner, turn wall switch to "ON". Do not light by hand.
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch or set the thermostat to the lowest setting.
2. Raise the control access panel.
3. Turn the gas shut-off valve to the "CLOSED" position. Do not force.
4. Close the control access panel.

N. SEASONAL CHECK LIST

WARNING!

Children and adults should be alerted to the hazards of high surface temperatures 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.

CAUTION:

Any safety screen or guard removed for servicing this appliance must be replaced prior to operating this appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Note: Installation and repair should be done by a qualified service person. The appliance 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.

BEFORE OPERATING THIS APPLIANCE HAVE A QUALIFIED TECHNICIAN:

- * Review proper placement of logs, rock wool, lava rock, and vermiculite.
- * Check the wiring.
- * Check the air shutter adjustment.
- * Ensure that there are no gas leaks.
- * Ensure that the glass is sealed and in the proper position.
- * Ensure that the flow of combustion and ventilation air is not obstructed.

WARNING!

Keep the area near the appliance clear and free of combustible materials, gasoline and other flammable vapors and liquids.

1. STANDING PILOT OPERATION

- a. **Hearth Technologies Inc. recommends you leave the pilot on year round.**
- b. **Lighting the appliance during regular use:** Turn the wall switch to on.
- c. **Shutdown during regular use:** Turn the wall switch to "OFF".
- d. If you decide to shut down the appliance for a long period of time:
 - 1) Turn all wall switches to "OFF".
 - 2) Turn pilot knob on valve to "OFF".
 - 3) Turn the gas shut-off valve to "CLOSED".
 - 4) To relight the pilot and appliance, see page 24.

2. ELECTRONIC IGNITION OPERATION

- a. **Lighting the appliance during regular use:** Turn the wall switch to "ON".
- b. **Shutdown during regular use:** Turn the wall switch to "OFF".
- c. To shut down the appliance for a long period of time:
 - 1) Turn all wall switches to "OFF".
 - 2) Turn the gas shut-off valve to "CLOSED".

3. FUEL

- a. Do not burn wood or other material in the appliance.
- b. Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Heatilator brand specified and approved parts.
- c. In the event your appliance must be converted to use propane, you must use a **CKP** Conversion Kit. To convert to use natural gas, you must use a **CKN** Conversion Kit.

O. START-UP ISSUES

ISSUE	SOLUTIONS
1. Condensation on the glass.	1. This is a result of gas combustion and temperature variations. As the appliance warms, this condensation should disappear.
2. Blue flames.	2. This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn.
3. Odor from unit.	3. When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
4. Film on the glass.	4. This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 4-6 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner, such as Brasso may be necessary.

WARNING!

Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance. Keep any flammable liquids a safe distance from the appliance.

P. MAINTENANCE INSTRUCTIONS

1. CLEANING THE BURNER AND CONTROL COMPARTMENT

Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Failure to do this may shorten the fan's life (where applicable). Always turn off the wall switch (or remote control) and gas valve before cleaning.

2. CHECKING FLAME PATTERNS

Check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. See Figure 36. The ignitor (electronic) or thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figures 46-48.

If the vent configuration is installed incorrectly, the vent may cause the flames inside the appliance to lift or "ghost," which is a dangerous situation. Inspect the flames after installation to ensure proper performance. See Figure 49. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off the gas to the appliance and contact the dealer.

Note: If the air shutter is open all the way and the flames remain sooty, shut off gas to the appliance and contact a qualified gas service technician.

Note: The look of the flames and embers may differ based on the type of fuel and venting assembly that is used.

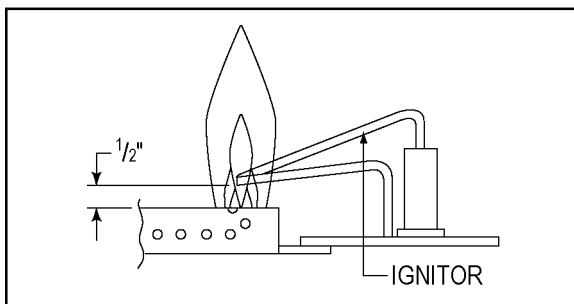


Figure 46 - Electronic Ignition

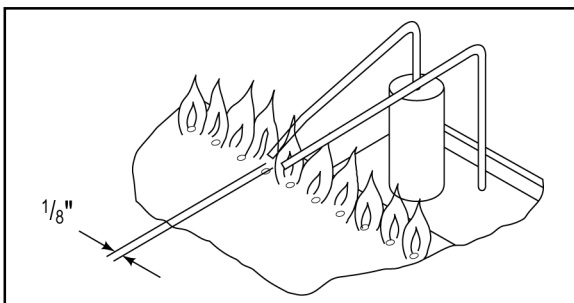


Figure 47 - Electronic Ignition

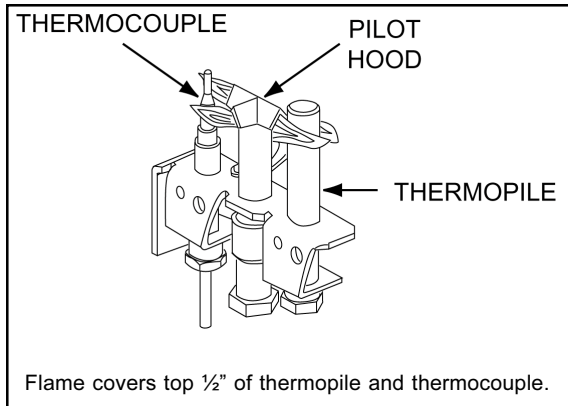


Figure 48 - Standing Pilot Ignition

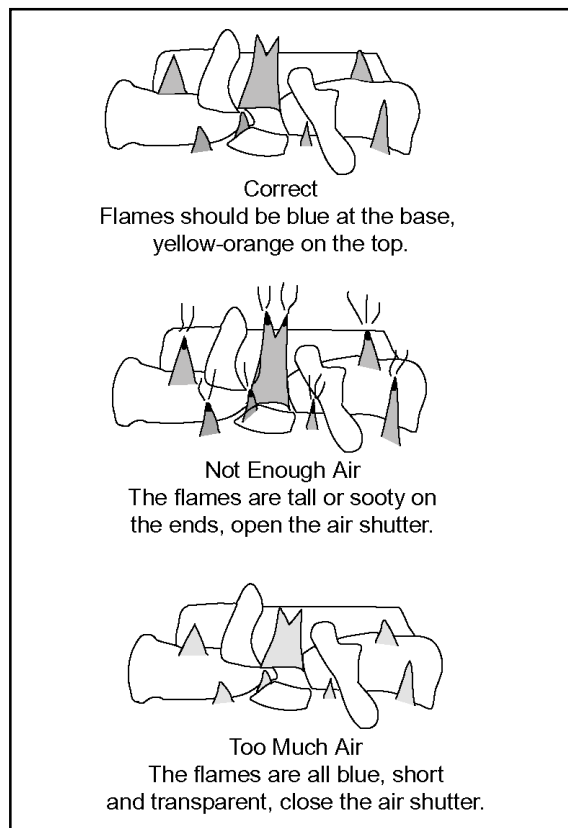


Figure 49 - Flame Patterns

Q. CLEANING THE GLASS

1. VENTING SYSTEM INSPECTION

The appliance and venting system should be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

2. CLEANING THE GLASS (See Figure 50)

In the event of glass breakage, carefully remove the glass frame. This will allow the removal of all glass

fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac. **DO NOT VACUUM IF THE PIECES ARE HOT!**

Replace glass with only a Heatilator Glass Panel Assembly ordered through your local distributor. Never use substitute material. Only fully tempered soda lime safety glass or ceramic glass may be used on this appliance.

WARNING!

NEVER operate this appliance without the glass properly secured in place or if the glass is broken or chipped.

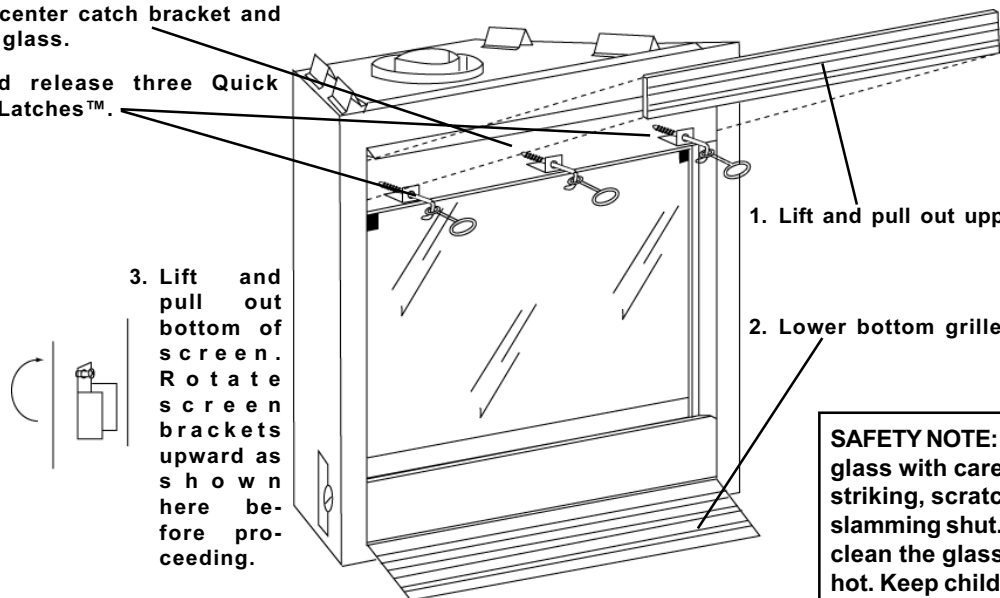
6. Set glass on nonabrasive surface. Clean using a nonabrasive, mild cleaning solution (i.e. Brasso).

5. Pull up center catch bracket and remove glass.

4. Pull and release three Quick Access Latches™.

3. Lift and pull out bottom of screen. Rotate screen brackets upward as shown here before proceeding.

7. To replace, ensure glass bottom is set completely down in bottom retainers. Rotate screen brackets down and replace screen.



1. Lift and pull out upper grille.

2. Lower bottom grille.

SAFETY NOTE: Handle glass with care to avoid striking, scratching or slamming shut. **NEVER** clean the glass when it is hot. Keep children and pets a safe distance away.

Figure 50 - Glass Cleaning



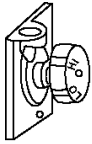
Figure 51 - Log Removal

3. LOG REMOVAL/REPLACEMENT

If removal of the logs becomes necessary, remove two screws at the front of the grate. Grasp the two outside upright grate bars. Pull the log toward the front and up, off the burner. See Figure 51.

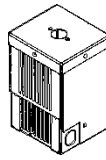
To replace the logs, grasp the two outside upright grate bars. Push and lower the log set onto the burner pan, making sure the back of the left most grate bar slides through the grate mounting bracket attached to the hearth pan. Attach two screws at the front of the grate.

R. OPTIONAL COMPONENTS



MF1
Adjustable Flame Head
(Natural Gas Standing
Pilot)

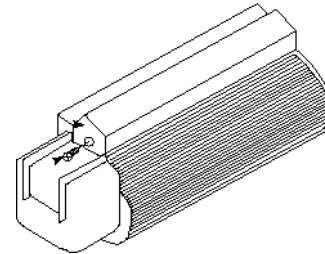
MF2
Adjustable Flame Head
(Propane Gas Standing
Pilot)



BC10
Fan Motor Rheostat

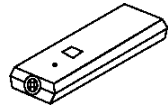
BC11
Automatic Variable Blower
Control

BC14
Automatic Variable Blower
Control



FK4
Fan Kit (33" & 36" appliances
only)

FK21
Fan Kit (30" appliances only)



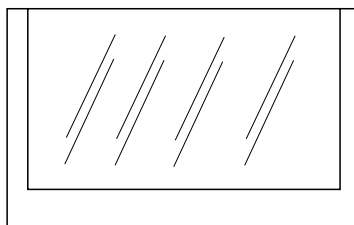
RC4
Remote Control
(Standing Pilot)

RC5
Remote Control
(Electronic Ignition)

RC6
Battery-operated Remote
Control (Standing Pilot)

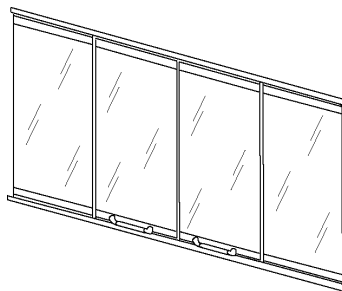
SMART-STAT
Remote Control with
Thermostat Control and
Fan Control

RCR-MLT
Multi-Function
Remote Control
(standing pilot only)

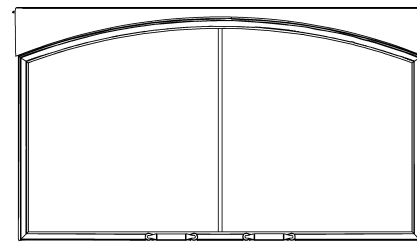


GP30
Ceramic Glass - 30"

GP33
Ceramic Glass - 33"
GP36
Ceramic Glass - 36"



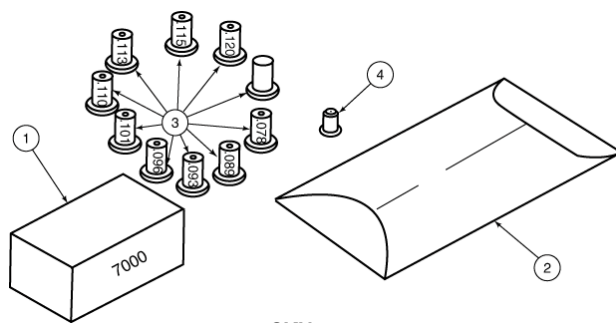
DFN0B
DFN3B
DFN6B
Fixed Glass Door



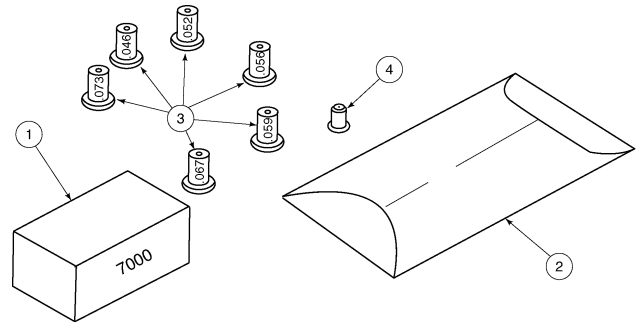
DFA 30/B
DFA 33/B
DFA 36/B/S
Fixed Glass Door

The first name in fireplaces

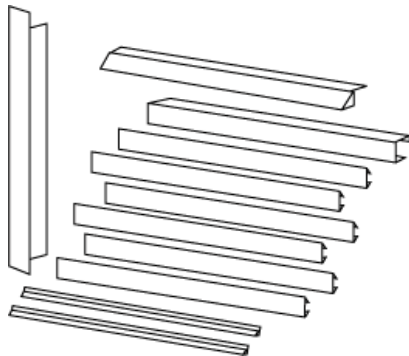
R. OPTIONAL COMPONENTS (con't)



CKN
Conversion Kit
(propane to natural gas)



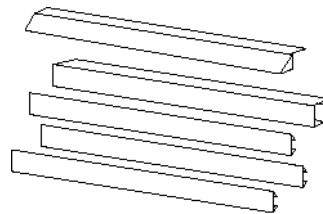
CKP
Conversion Kit
(natural gas to propane)



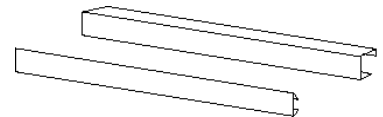
TKN38A/B, TKN62A/B
Trim Kits for 36" Decorative
Units

TKN68B
Trim Kits for 33" Decorative &
Heater Units

TKN02A/B, TKN32, TKN62A/B
Trim Kits



TKN33A/B, TKN63A/B
Trim Kits
TKN03A/B, TKN33A/B, TKN63A/B
Trim Kits



TKN05A/B, TKN35A/B, TKN65A/B
Trim Kits

S. REPLACEMENT PARTS

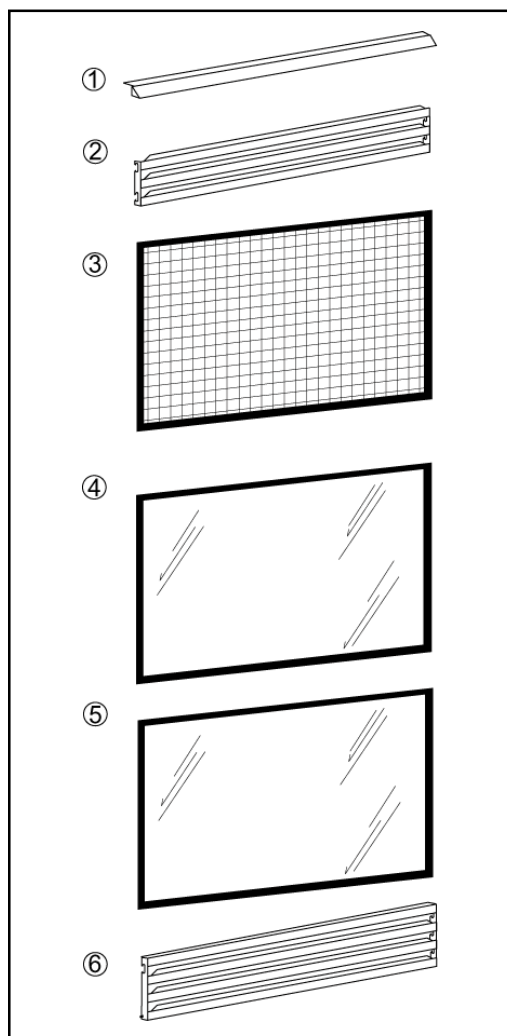
Replacement parts are available from your distributor/dealer.



7



8



Item #	Part #	Description	Qty.
1	21993	Hood - 36"	1
	21992	Hood - 33"	1
	21991	Hood - 30"	1
2	22123	Upper Grille - 36"	1
	22122	Upper Grille - 33"	1
	22121	Upper Grille - 30"	1
3	26804	Screen Assembly - 36"	1
	26803	Screen Assembly - 33"	1
	26802	Screen Assembly - 30"	1
4	22712	GNDC/RC36 Glass w/Frame	1
	22711	GNDC/RC33 Glass w/Frame	1
	22710	GNDC30 Glass w/Frame	1
5	22715	GNDH/RH36 Glass w/Frame	1
	22714	GNDH33 Glass w/Frame	1
	22713	GNDH30 Glass w/Frame	1
6	21582	Lower Grille - 36"	1
	21581	Lower Grille - 33"	1
	21580	Lower Grille - 30"	1
7	33495	33"/36" Novus Log/Grate Assy.	1
8	33513	30" Novus Log Set	1

Visit our Website at www.heatilator.com for a dealer/distributor near you!

The first name in fireplaces

Homeowner's Notes

The first name in fireplaces

Homeowner's Notes

The first name in fireplaces

Index

A

Appliance Locations 6

B

Blue Flames 26
Burner and Control Compartment 27

C

Certification 2
Chase/Termination Installation 15
Cleaning the Glass 28
Clearances 5, 6
Codes 2
Combustible Finishing Material 21
Condensation on the Glass 26

D

Dimensions
Rear Vent Appliance 5
Top Vent Appliance 5

E

Electronic 20
Electronic Ignition 27
Operation 25
Electronic Ignition Wiring Diagram 20
Exterior Wall Thickness 8

F

Finishing Materials 21
Combustible 21
High Temperature Sealant 21
Mantel 21
Noncombustible 21
Firebox Preparation 21
Attaching the Hood 21
Lava Rock 22
Lot Set 21
Rock Wool 22
Upper Grille Panel Removal 21
Vermiculite 22
Firestop Spacer 15
Flame Patterns 27
Framing 7
Fuel 25

G

Gas Line Connection 18
Gas Pressure 19
Glass
Condensation 26
Film on 26

H

High Altitude Installation 18
High Temperature Sealant Material 21
Hood 21
Horizontal Installations 4
Horizontal Termination
Rear Vent
45° Elbow 8
Clearances 8
No Elbows 8
Three Elbows 9
Two Elbows 9
Top Vent 9
Clearances 9
One Elbow 9, 10
Three Elbows 10
Two Elbows 10
Vent Lengths 9

I

Ignition
Determining the Type 23
Interior Wall Shield 14

J

Junction Box Wiring 20

L

Lava Rock 22
Lighting Instructions
Electronic Ignition 23
Standing Pilot Ignition 24
Locations 5, 6
Log Removal/Replacement 28
Lot Set 21

M

Maintenance 27
Burner & Control Compartment 27
Checking the Flame Patterns 27
Mantel 21
Mantel Heights 7
Minimum Installation (MI) Sections 17

N

Nomenclature 3
Noncombustible Finishing Material 21

O

Odor 26
Optional Components 29, 30

P

Positioning the Firebox 7
Preparation 2

R

Rear Vent Heat Shield 15
Replacement Parts 31
Rock Wool 22

S

Seasonal Check List 25
Electronic Ignition Operation 25
Fuel 25
Standing Pilot Operation 25
Setting the Firebox 7
Slip Sections 17
Space Requirements 6
Standing Pilot 19
Operation 25
Standing Pilot Ignition 27
Standing Pilot Ignition Wiring Diagram 19
Start-up Issues 26
Blue Flames 26
Film on the Glass 26
Odor 26

T

Termination Cap Location 11

U

Upper Grille 21
Utilities 18
Gas Line Connections 18
Gas Pressure 19
High Altitude Installation 18

V

Vent Assembly 16
Assembling Minimum Installation (MI)
Sections 17
Assembling the Slip Sections 17
Assembling Vent Sections 16
Attaching Venting to the Appliance 16
Disassembling Vent Sections 17
Venting 8
45° Elbow 8
Framing & Construction 14
Chase/Termination Installation 15
Firestop Spacer Installation 15
Interior Wall Shield Installation 14
Rear Vent Heat Shield Installation 15
Vertical Termination Cap Installation 16
Horizontal Termination, Rear Vent 8
No Elbows 8
Three Elbows 9
Top Vent 9
Two Elbows 9
Vertical Termination 12
Rear Vent 12

Index

Venting System Inspection 28
Vermiculite 22
Vertical Installations 4
Vertical Termination
 Rear Vent
 Clearances 12
 Vent Lengths 12
 Top Vent 13
 Clearances 13
 Vent Lengths 13
Vertical Termination Cap 16

W

Warranty 36
Wiring 19
 Electronic Ignition 20
 Wiring Diagram 20
 Junction Box 20
 Standing Pilot 19
 Wiring Diagram 19

The first name in fireplaces

heatilator®

The first name in fireplaces

Heatilator
1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
A Division of Hearth Technologies Inc.

Limited Lifetime Warranty Gas Appliance

HEATILATOR extends the following warranty for HEATILATOR gas appliances installed in the United States of America or Canada (the "Appliance"). Dealers and employees of HEATILATOR have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty. This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state regarding limitations on how long an implied warranty lasts, or do not allow exclusion or limitation of incidental consequential damages.

Limited Lifetime Warranty

HEATILATOR warrants the Appliance for component failure due to a manufacturing defect of any of the following: combustion chamber, burner pan, and logs. The Limited Lifetime Warranty specified above is subject to the conditions, exclusions and limitations listed below, is for the period the Appliance is owned by the original homeowner only, and is nontransferable.

1 Year Limited Coverage

HEATILATOR warrants the gas appliance to be free from failure of any of the following components for a period of one year after installation when installed and used in accordance with the Installation Instructions, Operating Instructions, and Listing Agent Identification Label: valve, flexible gas line connector, glass panel, fan, direct vent chimney components, factory paint, gasket, piezo ignitor, thermopile, thermocouple, junction box, pilot assembly, shutoff valve, high limit switch, refractory liners, transformer, and control box. If the Heatilator gas appliance is found to be defective in either material or workmanship within one year of the date of original installation, HEATILATOR will provide replacement parts at no charge and pay reasonable labor and freight costs. This 1-Year Limited Warranty is subject to the conditions, exclusions and limitations listed below.

CONDITIONS, EXCLUSIONS, & LIMITATIONS OF LIABILITY

- A.** Both the Limited Lifetime and 1 Year Limited Warranties supplied by HEATILATOR apply only while the appliance is in its location of original installation. HEATILATOR'S obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Appliance or any other components not expressly authorized and approved by HEATILATOR; and/or (7) modification of the Appliance not expressly authorized and approved by HEATILATOR in writing. (8) This warranty is limited to only the component parts manufactured or supplied by HEATILATOR.
- B.** This warranty is limited to the replacement or repair of defective components or workmanship and HEATILATOR may fully discharge all obligations under this warranty by repairing or replacing, at its discretion, the defective components. **In no event shall HEATILATOR be liable for any incidental or consequential damages caused by defects in the appliance.**
- C. EXCEPT TO THE EXTENT PROVIDED BY LAW, HEATILATOR MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.**

HOW TO OBTAIN SERVICE. To obtain service under this warranty you must:

1. Send written notice of the claimed condition to Technical Service Department, Heatilator, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563.
2. Provide proof of purchase, model number, serial number, and manufacturing date code to HEATILATOR.
3. Provide HEATILATOR reasonable opportunity to investigate the claim, including reasonable opportunity to inspect the Appliance prior to any repair or replacement work and before the Appliance or any component of the Appliance has been removed from the place of original installation.
4. Obtain HEATILATOR'S consent to any warranty work before the work is done.

ADDITIONAL INFORMATION: If you would like information on current HEATILATOR products or want to locate a dealer in your area, simply call 1-319-385-9211.