

# heatilator®

*The first name in fireplaces*



Hearth Technologies-Mt. Pleasant  
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Division, HON INDUSTRIES  
www.heatilator.com

## NOVUS™ SERIES

### TOP DIRECT VENT GAS APPLIANCE

### INSTALLATION & OPERATING

### INSTRUCTIONS



30", 33' & 36" with the X Burn System

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.)**

**Read these installation instructions completely before beginning installation. Failure to follow them could cause an appliance malfunction resulting in serious injury and/or property damage.**

#### 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.**

# Table of Contents

A. Preparation .....	3
B. Location and Clearances .....	5
C. Framing .....	6
D. Setting the Appliance .....	6
E. Venting .....	7
F. Utilities .....	14
G. Finishing .....	17
H. Appliance Preparation .....	17
I. Determining the Ignition Type .....	19
J. Lighting Instructions .....	19
K. Seasonal Checklist .....	21
L. Start-up Issues .....	22
M. Maintenance Instructions .....	23
N. Optional Components .....	25
O. Replacement Parts .....	26
Index .....	27
Warranty .....	28

## SAFETY PRECAUTIONS

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause an appliance malfunction resulting in serious injury and/or property damage.
2. Always check your local building codes prior to installation. This installation must comply with all local, regional, state and national codes and regulations.
3. Installation and repair should be done by a qualified service person. This appliance should also be inspected annually by a qualified service person. More frequent inspections/cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that the control compartment, burners and circulating air passageways of the appliance be kept clean.
4. **The NOVUS is a vented decorative gas appliance. Do not burn wood or other material in this appliance.**
5. NEVER leave children unattended when there is a fire burning in the appliance.
6. This appliance may only use the approved venting systems shown in these installation instructions. Venting must not be connected to chimney flue servicing a solid fuel burning appliance or a gas fuel burning appliance.
7. 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.
8. While servicing this appliance, always shut off all electricity and gas to the appliance. This will prevent possible electrical shock or burns. Also, make sure the appliance is completely cooled before servicing.
9. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
10. Be sure to provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.

**A. PREPARATION**

**U.S. AND CANADA CERTIFICATION**

The NOVUS Series Gas Appliance has been tested in accordance with the ANSI standard Z21.88-2000 in the United States, and the current CSA 2.33-2000 (Heater) 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.

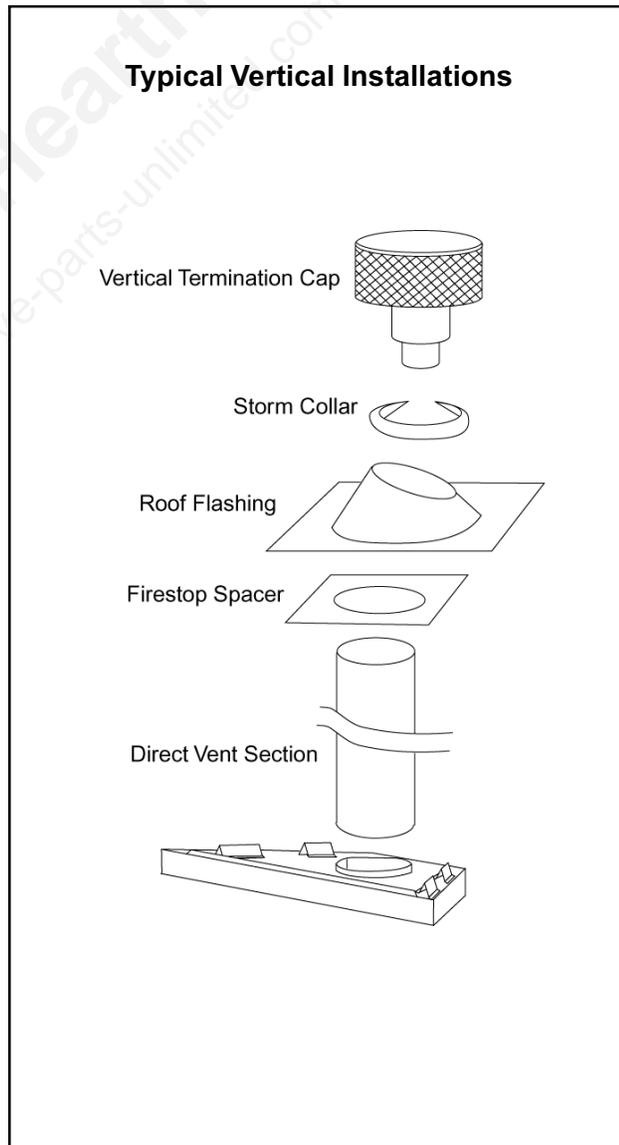
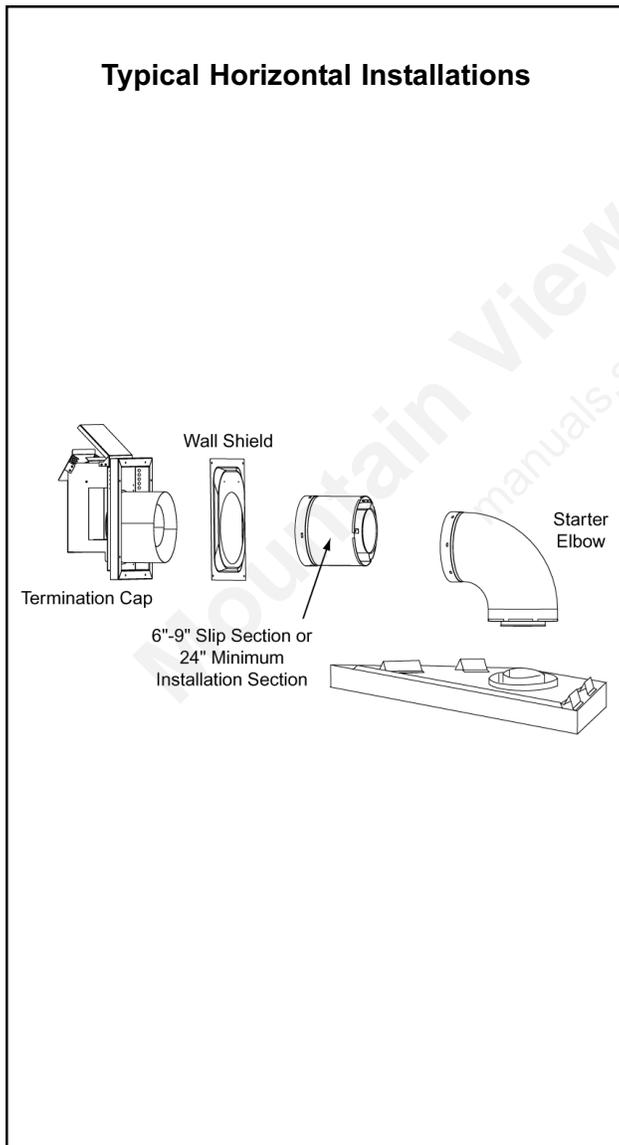
**LOCAL CODES**

This installation must conform with local codes. In the absence of local Codes 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.

This 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 *Manufactured 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.

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**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.

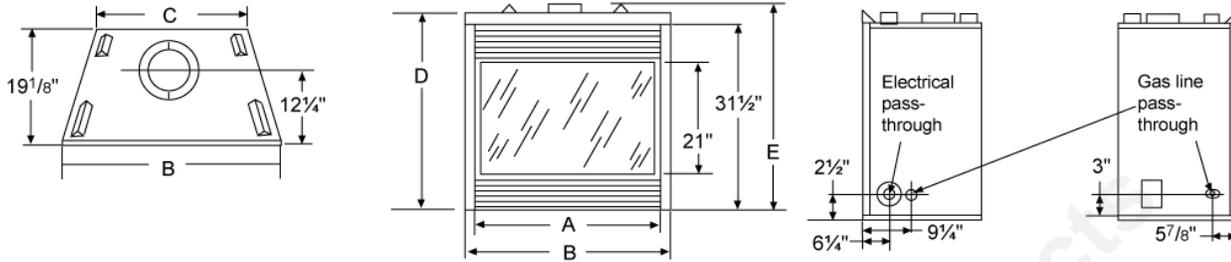
**Tools and building supplies normally required for installation:**

Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Surround
Phillips Screwdriver	Caulking material
Tape Measure	Gloves
Plumb Line	Framing Square
Level	Electric Drill/Bits

### Novus Nomenclature

Catalog #	Description:
<b>GNDC36LE</b>	<b>Appliance Order Code Number:</b>
GN	Gas Novus
D	Direct Vent
C or H	Circulating or Heater
36	36 - 36" Appliance
	33 - 33" Appliance
	30 - 30" Appliance
LE	No suffix - Standing Pilot, Natural Gas
	L - Standing Pilot, Propane Gas
	E - Electronic Ignition, Natural Gas
	LE - Propane Gas, Electronic Ignition
GNDC36LEB	Appliance Order Code Number with Upgrade Code Number
B	Black Firebox
GNDC36LEB	<b>EXAMPLE</b> - Gas NOVUS, Direct Vent, Heat Circulating, 36", Propane Gas, Electronic Ignition appliance with Black Firebox.
<b>Components:</b>	<b>Description:</b>
CS	Cap Shield
VP-TV	Vertical Termination Cap
VP45	45° Elbow
VP90	90° Elbow
VP90ST	90° Starter Elbow (should be the first 90° elbow used)
RF6	Roof Flashing ( for 0/12 to 6/12 pitch)
RF7	Steep pitch Roof Flashing (for 7/12 to 12/12/ pitch)
VP-TB1	Basement Vent Kit
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
VP9-14	9"-14" 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
VP-TH	Horizontal Vent Termination Cap
VP-THK	Horizontal Termination Kit: Termination Cap, VP6-9 Section, VP90ST starter elbow, Wall Shield
VP-THK-MI	Horizontal Termination Kit: Termination Cap, VP24MI vent section, VP90ST starter elbow, wall shield
VP-VT1	Horizontal Termination Cap
VP-VT1X	High Wind Horizontal Termination Cap

## B. LOCATION AND CLEARANCES



MODEL	A	B	C	D	E
GNDC30	29 <sup>3</sup> / <sub>4</sub> "	34 <sup>7</sup> / <sub>8</sub> "	8 <sup>5</sup> / <sub>8</sub> "	33"	34 <sup>1</sup> / <sub>2</sub> "
GNDC33	32 <sup>3</sup> / <sub>4</sub> "	37 <sup>7</sup> / <sub>8</sub> "	11 <sup>5</sup> / <sub>8</sub> "	33"	34 <sup>1</sup> / <sub>2</sub> "
GNDC36	35 <sup>3</sup> / <sub>4</sub> "	40 <sup>7</sup> / <sub>8</sub> "	14 <sup>5</sup> / <sub>8</sub> "	33"	34 <sup>1</sup> / <sub>2</sub> "

MODEL	A	B	C	D	E
GNDH30	29 <sup>3</sup> / <sub>4</sub> "	34 <sup>7</sup> / <sub>8</sub> "	8 <sup>5</sup> / <sub>8</sub> "	36"	36 <sup>5</sup> / <sub>8</sub> "
GNDH33	32 <sup>3</sup> / <sub>4</sub> "	37 <sup>7</sup> / <sub>8</sub> "	11 <sup>5</sup> / <sub>8</sub> "	36"	36 <sup>5</sup> / <sub>8</sub> "
GNDH36	35 <sup>3</sup> / <sub>4</sub> "	40 <sup>7</sup> / <sub>8</sub> "	14 <sup>5</sup> / <sub>8</sub> "	36"	36 <sup>5</sup> / <sub>8</sub> "

**WARNING!**

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

### 1. APPLIANCE LOCATIONS AND SPACE REQUIREMENTS

Figure 1 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.

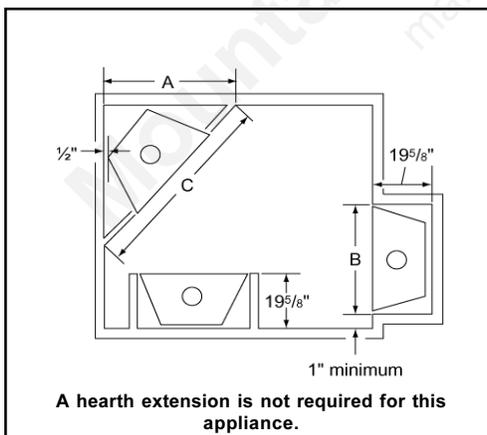


Figure 1 - Appliance Locations

MODEL	A	B	C
GNDC/DH30	34-1/8"	35-7/8"	48-1/4"
GNDC/DH33	36-1/4"	38-7/8"	51-1/4"
GNDC/DH36	38-3/8"	41-7/8"	54-1/4"

### 2. CLEARANCES

Figure 2 shows all clearances that must be maintained around the appliance. See page 10 for termination cap clearances.

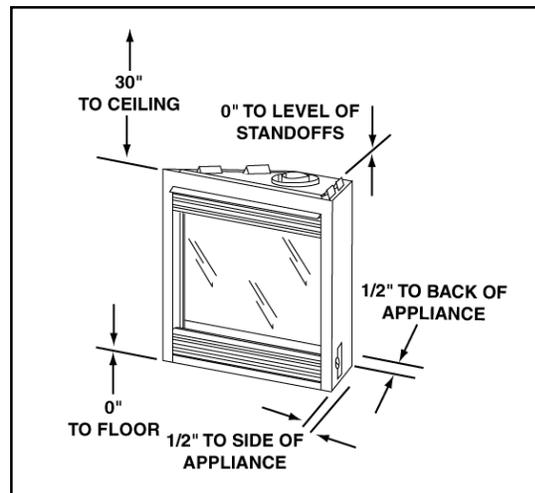
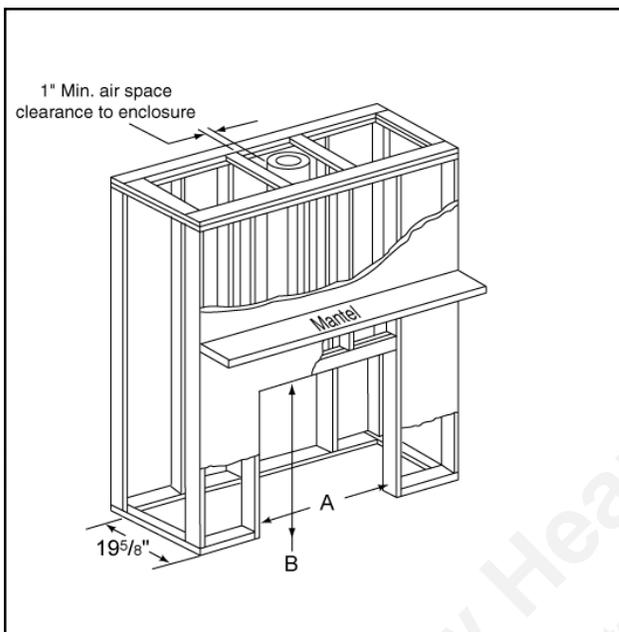


Figure 2  
Appliance Clearances to Combustible Materials

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### C. FRAMING

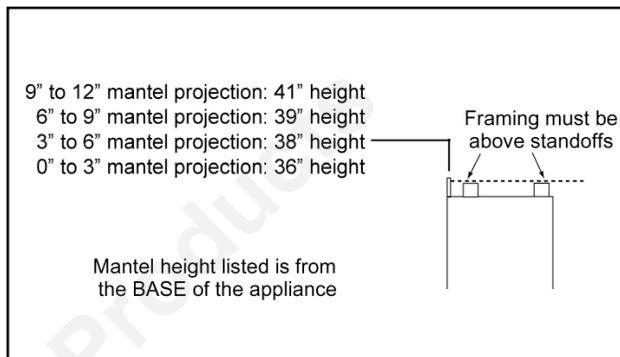
Figure 3 shows a typical framing of this appliance using combustible materials. Figure 4 shows the mantel heights for mantel projections. All required clearances to combustibles must be adhered to.



**Figure 3  
Framing**

MODEL	A	B
GNDC30	35 7/8"	34 5/8"
GNDC33	38 7/8"	34 5/8"
GNDC36	41 7/8"	34 5/8"

MODEL	A	B
GNDH30	35 7/8"	36 3/4"
GNDH33	38 7/8"	36 3/4"
GNDH36	41 7/8"	36 3/4"



**Figure 4  
Mantel Heights**

**CAUTION:**  
Wear gloves and safety glasses for protection.

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

**WARNING!**  
To prevent contact with sagging or loose insulation the appliance must not be installed against vapor barriers or exposed insulation.

### D. SETTING THE APPLIANCE

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 appliance 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 the framing. The nailing flanges have been positioned 5/8 inch back from the front of the appliance to allow the addition of drywall.

## E. VENTING

### 1. HORIZONTAL TERMINATION

#### a. Clearances

See Figure 5 for clearance information.

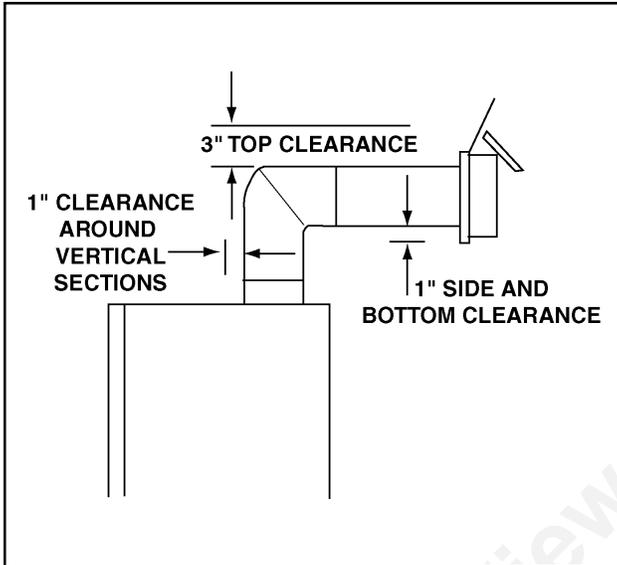


Figure 5  
Clearances

#### CAUTION:

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

#### b. Vent Lengths

Various venting configurations are shown in Figures 6-9 from which maximum vent lengths can be determined.

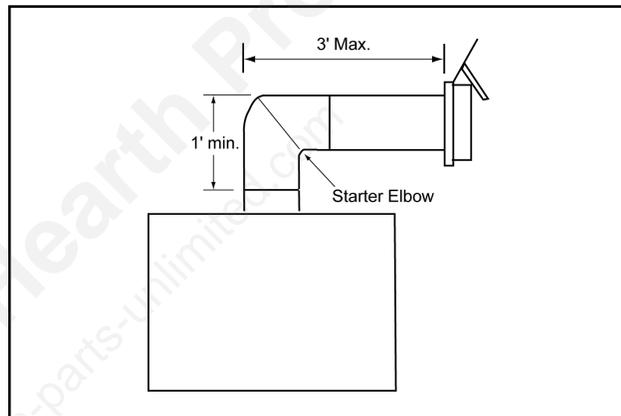


Figure 6  
Vent Lengths With One Elbow  
(minimum vertical)

#### WARNING - RISK OF FIRE!

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

#### WARNING - RISK OF FIRE!

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

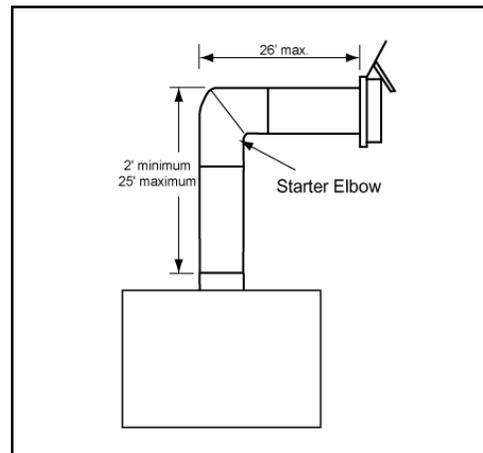
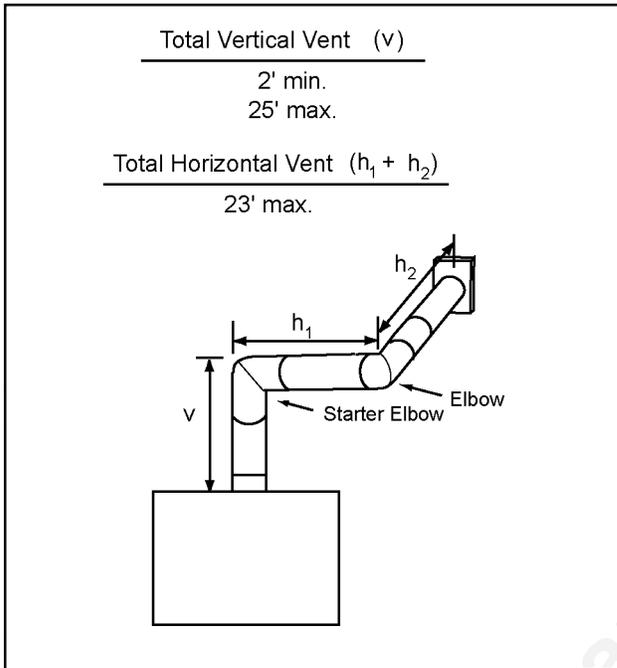
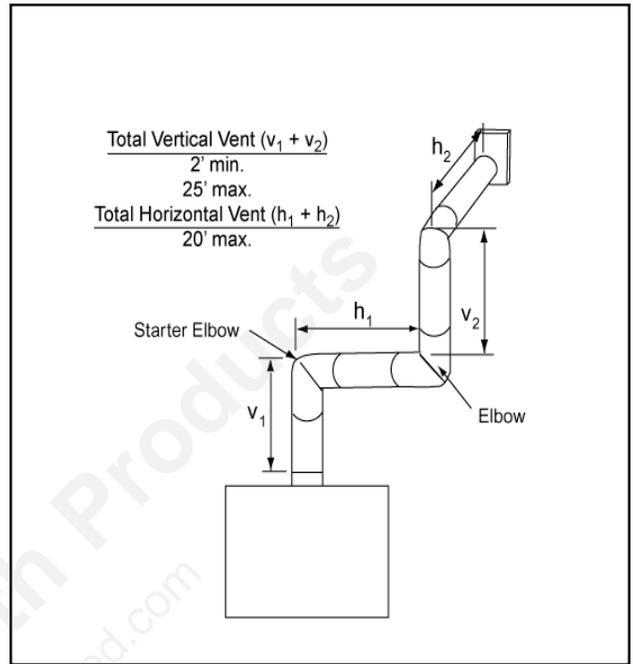


Figure 7  
Vent Lengths With One Elbow  
(2' vertical or more, 25' maximum)

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**Figure 8**  
Vent Lengths with Two Elbows



**Figure 9**  
Vent Lengths with Three Elbows

**WARNING - RISK OF FIRE!**

Always maintain minimum air space clearances or greater around the chimney system. See Figure 4. 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 ft. of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present a fire hazard.

**Note:** Horizontal runs will require the use of one vent support (or plumbers tape) for every 3' of vent.

**c. Assembling Chimney Sections**

Use only pipe supplied and listed for use with this appliance. See page 4 for a description of listed components. See Section 3 on page 13 for instructions on assembling the vent sections.

**d. Installing the Interior Wall Shield (WS6)**

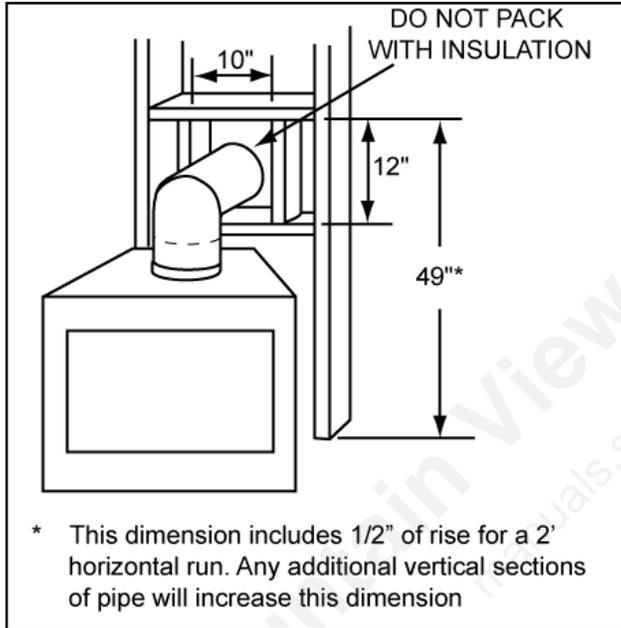
Frame a hole in a combustible wall for an interior wall shield, as shown in Figure 10, whenever a wall is penetrated. This shield maintains minimum clearances and prevents cold air infiltration.

Secure the wall shield to the framing as shown in Figures 11-12.

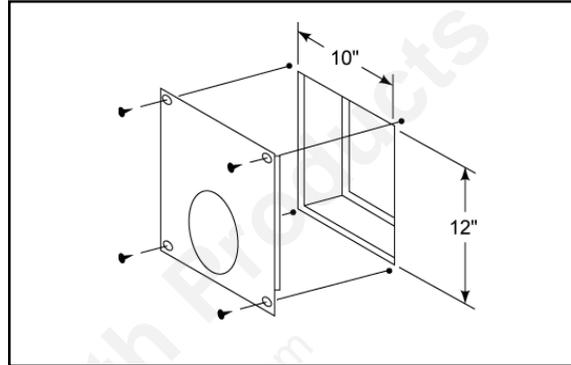
The termination cap height must meet all local and national codes and not be easily blocked or obstructed.

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

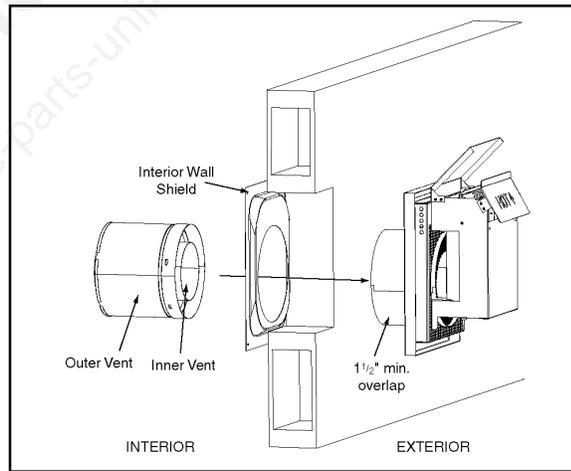
**Note:** Exterior wall thickness must be a minimum of 4" to a maximum of 23 1/2".



**Figure 10**  
**Exterior Wall Hole**



**Figure 11**  
**Interior Wall Shield**



**Figure 12**  
**Venting Through the Wall**

**WARNING - RISK OF FIRE!**

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

**CAUTION:**

A vinyl soffit shield should be installed if a cap is within 30" of a vinyl soffit.

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### e. Termination

Vent termination must not be recessed in the wall or siding. Siding may be brought to the edge of the cap base.

Install the cap as shown in Figure 12. Cap pipe sections should overlap the vent pipe by 1½ inches. Caulk outside edges of cap.

Local codes may require the installation of a shield which prevents the cap from accidentally touching anything or anyone.

Figure 13 illustrates cap locations prescribed by current ANSI Z273.1 and CAN/CGA-B149 Installation Codes.

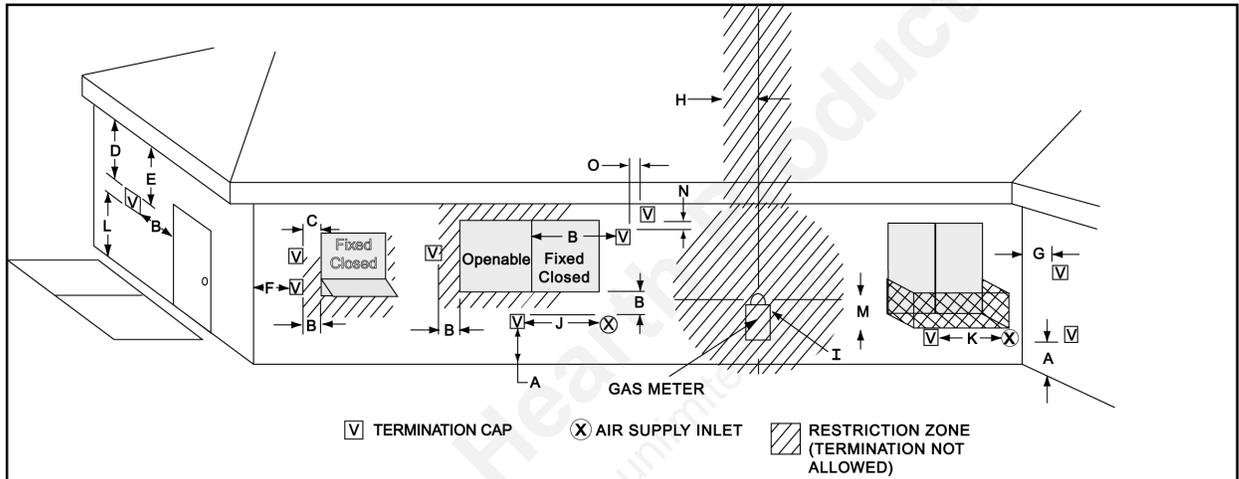


Figure 13 - Termination Cap Locations

#### 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 – 10,000 BTUs or less, 6 inches (15 cm) minimum; 10,000-50,000 BTUs, 9 inches (23 cm) minimum; over 50,000 BTUs, 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 termination within a horizontal distance of 2 feet (60 cm) from the centerline of the termination – 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.

N Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor. \*

O Vertical clearance between two horizontal termination caps – 12 inches (30 cm) minimum.

P Horizontal 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.

#### WARNING!

**In the U.S.:** Vent system termination is NOT permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

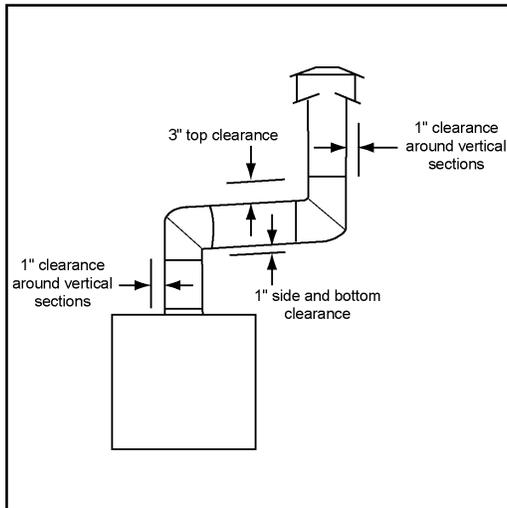
**In Canada:** Vent system termination is NOT permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side wall, overhang and ground clearances as stated in the instructions.

Hearth Technologies Inc. assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

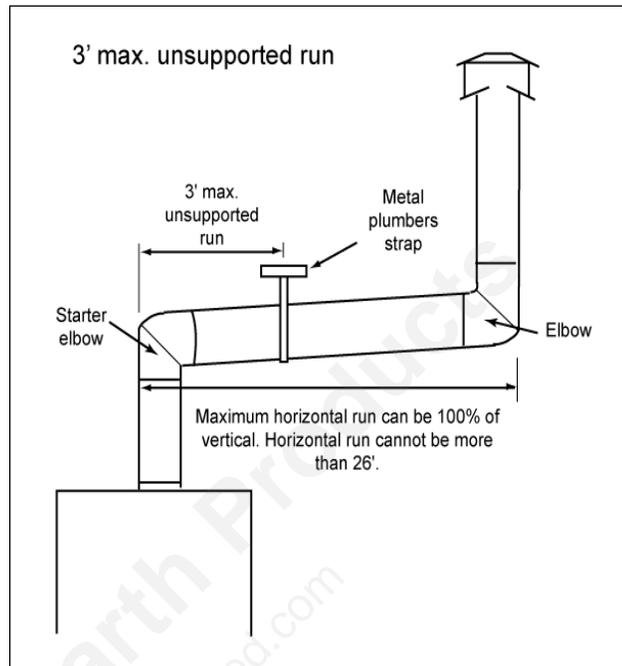
## 2. VERTICAL TERMINATION

### a. Clearances

See Figure 14 for clearance information.



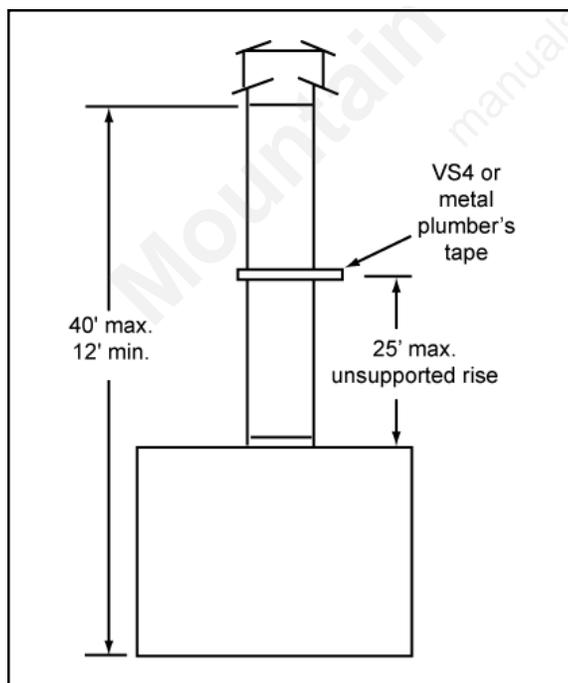
**Figure 14**  
Vertical Termination Clearances



**Figure 16**  
Vertical Termination Vent Lengths

### b. Vent Lengths

Various venting configurations are shown in Figures 15-16 from which maximum vent runs can be determined.



**Figure 15**  
Vertical Termination Vent lengths

#### WARNING - RISK OF FIRE!

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

#### WARNING

The horizontal run of vent must have a  $\frac{1}{4}$ " rise for every 1 ft. of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present a fire hazard.

### c. Assembling Chimney Sections

Use only pipe supplied and listed for use with this appliance. See page 4 for a description of listed components. See Section 3 on page 13 for instructions on assembling vent sections.

#### CAUTION:

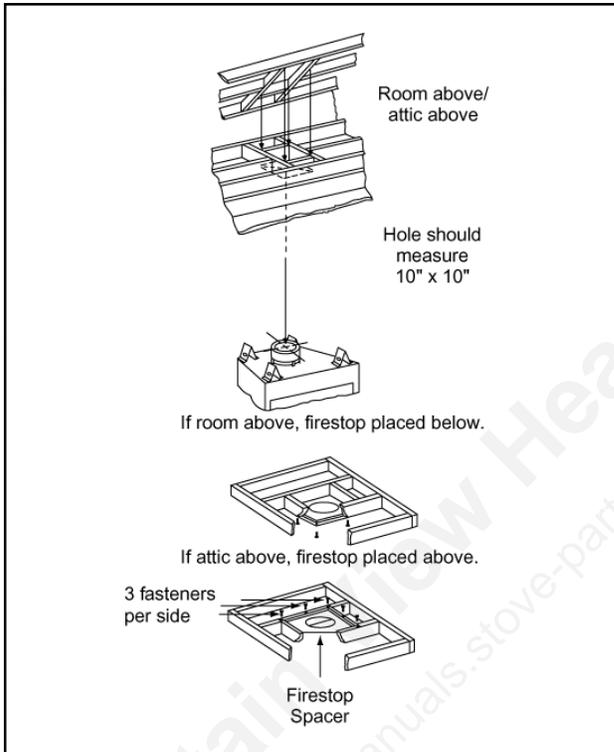
For vertically terminated installations, metal tape at each vent joint will help prevent excess air infiltration and improve flame appearance. All joints above the storm collar should be taped and/or sealed with silicone caulk to prevent water penetration.

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### d. Firestop Spacer/Chimney Installation

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 17. Frame the opening with the same sized lumber as used in the ceiling/floor joists. Unless the flue is offset, the hole should be directly above the appliance. **DO NOT** pack insulation around the chimney.



**Figure 17 - Installing the Firestop Spacer**

### e. Chase/Termination Installation

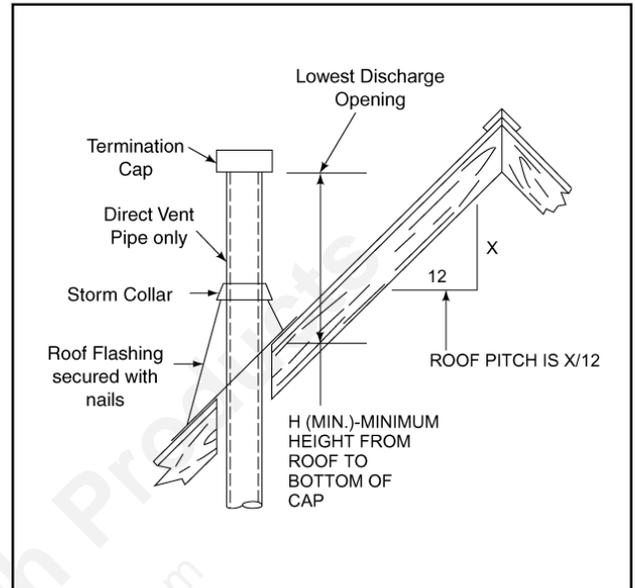
Figure 18 and 19, and Table 1 specify minimum chimney heights for various pitched roofs.

These chimney 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 chimney should down drafting occur.

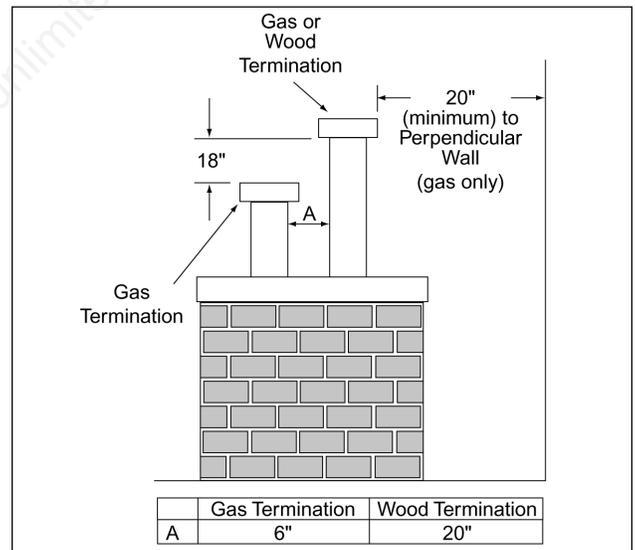
### f. Installing the Vertical Termination Cap

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.

**Note:** To ensure proper operation, verify all venting and the termination is unobstructed.



**Figure 18  
Chimney Height for Vertical Termination**



**Figure 19 - Multiple 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

**Table 1 - Chimney Height**

**3. ASSEMBLING THE VENT SECTIONS**

**a. Attaching the Venting to the Appliance**

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

**b. Assembling Vent Sections**

- 1) Start the flared inner flue of section "A" over the inner flue of section "B".
- 2) Insert the outer flue of section "A" into the outer flue of section "B". See Figure 20.

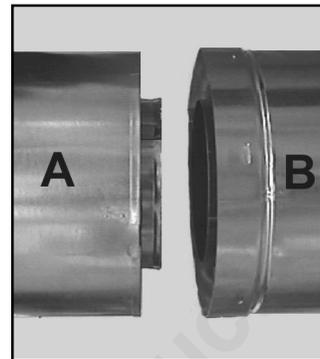


Figure 20

**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 21.

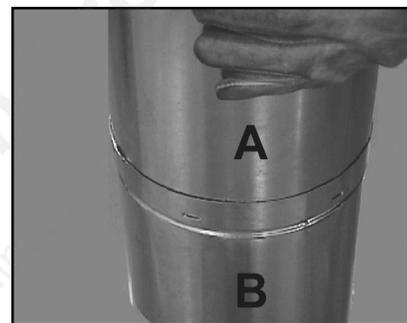


Figure 21

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

**c. 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 22. 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.

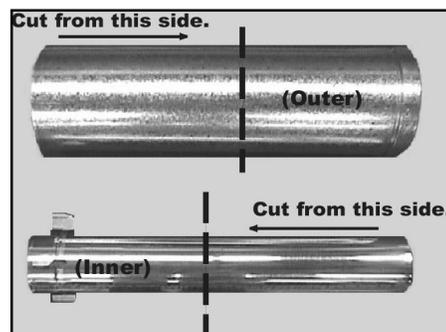


Figure 22

The first name in fireplaces

### d. Assembling the Slip Sections

Slip sections should be snapped into the first mating piece, then expanded to their desired length, making sure that a 1.5" overlap is maintained between the two sections of the slip section. The sections need to be secured by driving two screws through the overlapping portions of the vent. See Figure 23. 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.

### e. 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 24. They can then be carefully pulled apart.



Figure 23

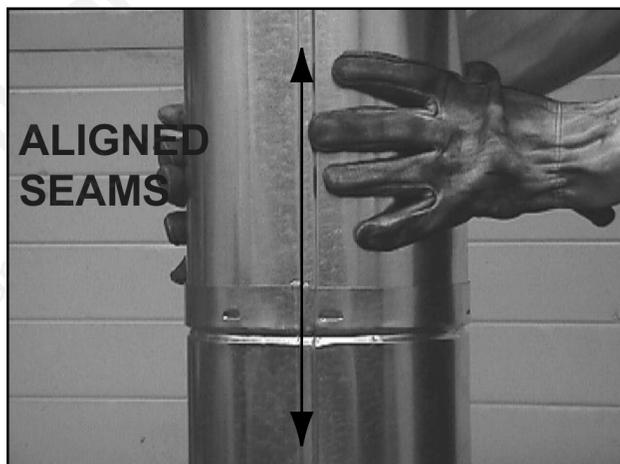


Figure 24

## F. UTILITIES

### 1. HIGH ALTITUDE INSTALLATION

For the 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. Orifices are 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

Open the control access panel as shown in Figures 25 and 26. 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 soapy water solution or leak detector. Bleed the gas line to extract any air that may have been trapped inside the pipe. See Figure 27 to connect gas line. (Gas connection may also be made by taking out the knockout in the bottom pan to allow connection through the bottom of the appliance.)

The first name in fireplaces

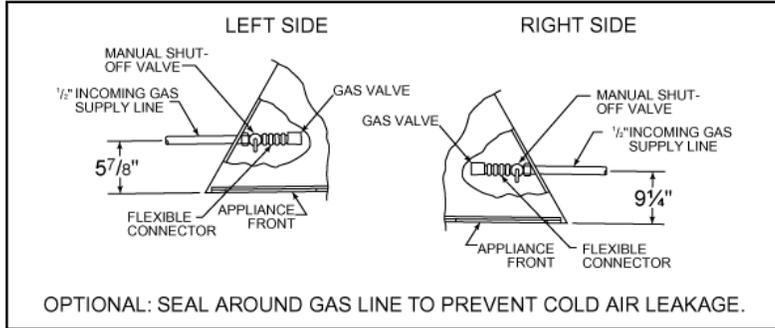
**NOVUS TOP DV GAS APPLIANCE INSTALLATION INSTRUCTIONS**



**Figure 25 - Control Access Panel Removal**



**Figure 26 - Control Access Panel Removal**



**Figure 27 - Gas Line**

**Note:** The appliance and its manual 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 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).

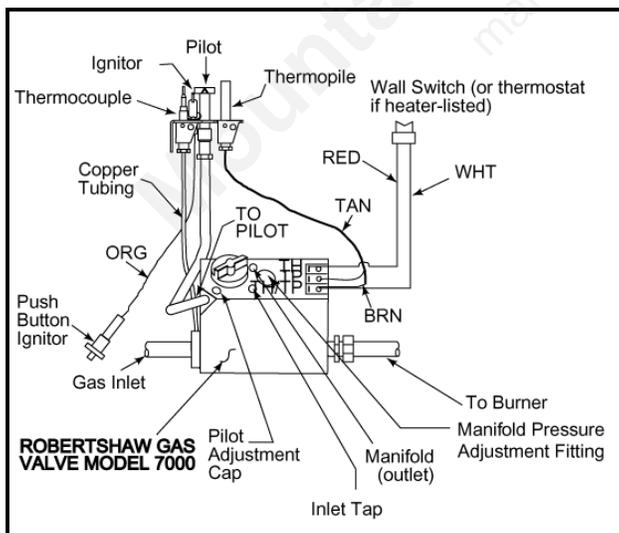
**3. GAS PRESSURE**

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.

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)	10.0*
Input rate (NG) GNDC36	27,000 BTU/hr
Input rate (NG) GNDC33	25,000 BTU/hr
Input rate (NG) GNDC30	24,000 BTU/hr
Input rate (NG) GNDH 30/33/36	25,000 BTU/hr
Input rate (LP) GNDC 33/36	25,000 BTU/hr
Input rate (LP) GNDC30	24,000 BTU/hr
Input rate (LP) GNDH 30/33/36	25,000 BTU/hr
Natural Gas Orifice Size	
GNDC/DH33/36	.101 in./2.56 mm
GNDC30/GNDH30	.096 in./2.43 mm
Propane Gas Orifice Size	.059 in./1.50 mm

\* indicates inches Water Column

**4. WIRING**



**Figure 28 - Standing Pilot Ignition Wiring Diagram**

**Table 2 - Gas Information for Electronic and Standing Pilot Appliances**

**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.

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## G. 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.

### 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 inch wide minimum, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 31.

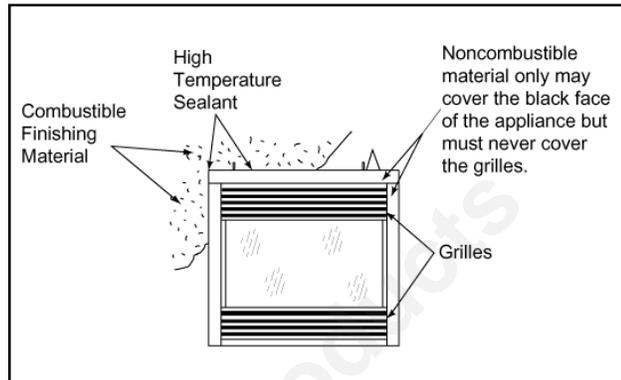


Figure 31  
Finishing Materials

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

## H. APPLIANCE PREPARATION

### 1. 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 appliance. Position the hood and slide into position. Tighten the four screws. See Figure 32.

### 2. UPPER GRILLE PANEL REMOVAL

Grasp the upper grille panel and remove the rubber pins holding the grille. See Figure 33.

### 3. CONTROL ACCESS PANEL REMOVAL

Release the spring pin on the right hand side of the control access panel. See Figure 34.

### 4. GLASS AND SCREEN REMOVAL

See page 24 of this manual.



Figure 32 - Installing the Hood



Figure 33 - Upper Grille Panel Removal



Figure 34 - Control Access Panel Removal

### 5. APPLIANCE PREPARATION

#### a. Log Set

The log set should look similar to that in Figure 35.



Figure 35 - Log Set

#### b. Placing the Lava Rock and Vermiculite

See Figure 36 for lava rock and vermiculite placement.

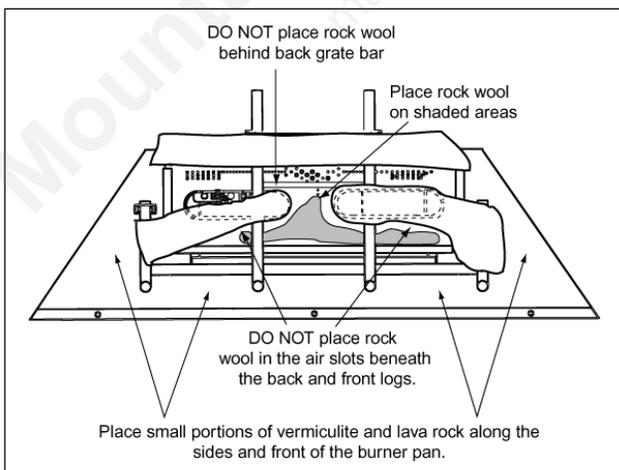


Figure 36  
Placing the Vermiculite and Lava Rock  
(top logs removed for clarity)

#### c. 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 37.

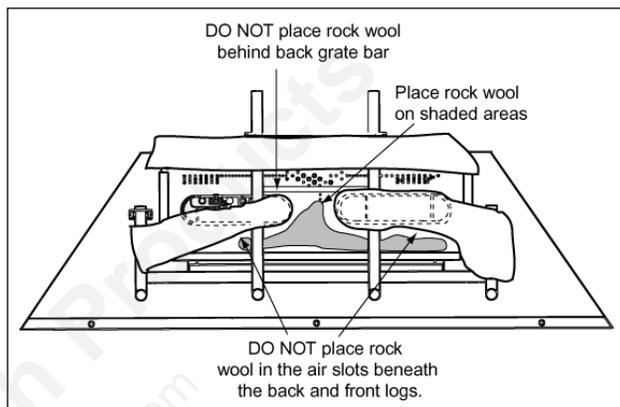


Figure 37 - Placing the Rock Wool  
(top logs removed for clarity)

### 6. GLASS AND SCREEN REPLACEMENT

See page 24 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.

### 7. CONTROL ACCESS PANEL PLACEMENT

Place the control access panel as shown in Figure 38.



Figure 38 - Replace Control Access Panel

## I. DETERMINING THE IGNITION TYPE

To determine whether your appliance is an electronic ignition or a standing pilot ignition, open the control access panel to examine the wiring system. If your system has a red ignitor button (as shown in Figure 39), 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 control access panel to determine ignition type.

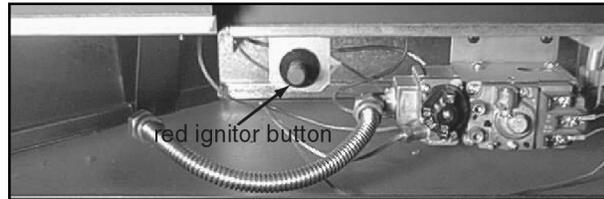


Figure 39 - Standing Pilot Ignition

## J. LIGHTING INSTRUCTIONS

### 1. ELECTRONIC IGNITION APPLIANCES

#### 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 electrical 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 and move the gas control lever or turn the gas control knob. Never use tools. If the lever or knob will not move by hand, don't try to repair it--call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

#### 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.
2. Turn gas line to the "OFF" position.
3. Close control access panel.

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### 2. STANDING PILOT

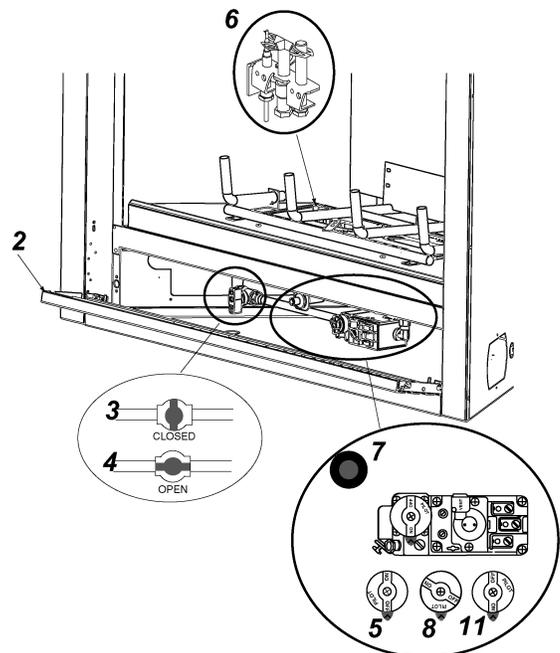
#### FOR YOUR SAFETY READ BEFORE OPERATING

**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 electrical 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 wall switch to the "OFF" position or set thermostat to lowest setting.
2. Open the control access panel.
3. Turn manual shutoff valve to "CLOSED". Wait five 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 manual shutoff 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 five 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. Open the control access panel.
3. Turn the manual shutoff valve to the "CLOSED" position. Do not force.
4. Close the control access panel.

## K. SEASONAL CHECKLIST

### 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 an appliance must be replaced prior to operating this appliance. Clothing or other flammable material should not be placed on or near the appliance.

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 from combustible materials, gasoline, and other flammable vapors and liquids.

### 1. STANDING PILOT OPERATION

Hearth Technologies Inc. recommends you leave the pilot on year round.

If you decide to shut down the appliance for a long period of time:

- a. Turn all wall switches to "OFF".
- b. Turn pilot knob on valve to "OFF".
- c. Turn the gas line to "CLOSED".

**Lighting the Appliance During Regular Use:** Turn the wall switch to "ON".

**Shutdown During Regular Use:** Turn the wall switch to "OFF".

### 2. ELECTRONIC IGNITION OPERATION

**To shut down the appliance for a long period of time:**

- a. Turn all wall switches to "OFF".
- b. Turn the gas line to "CLOSED".

**Lighting the Appliance During Regular Use:** Turn the wall switch to "ON".

**Shutdown During Regular Use:** Turn the wall switch to "OFF".

### 3. FUEL

Do not burn wood or other material in this appliance. Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Hearth Technologies Inc. specified and approved parts.

In the event your appliance must be converted to use propane, you must use a CKVP Conversion Kit. To convert to use natural, you must use a CKVN Conversion Kit.

### WARNING!

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

## L. 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 appliance.	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.

## M. MAINTENANCE INSTRUCTIONS

### 1. CLEANING THE BURNER AND CONTROL COMPARTMENT

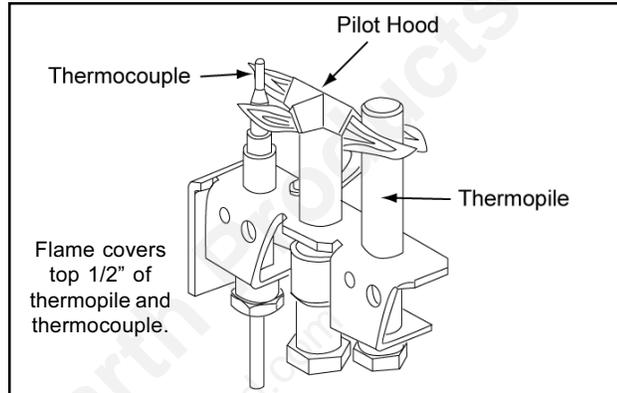
Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Failure to do this may shorten the fan's life (where applicable). Always turn off the wall switch, remote control, and/or thermostat before cleaning.

### 2. CHECKING THE FLAME PATTERNS

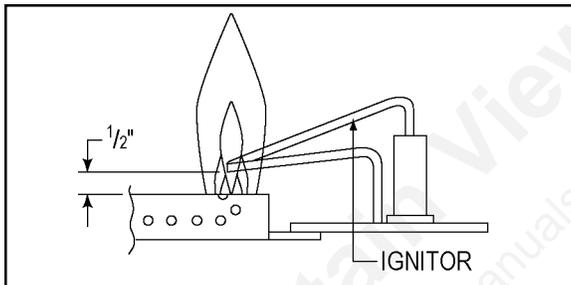
Visually check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. See Figure 43. The ignitor (electronic) or thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figures 40-42.

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 43. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer.

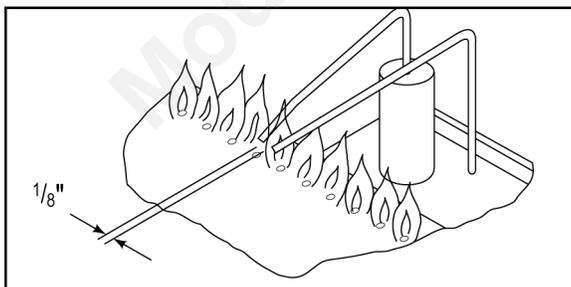
**Note:** The look of the flames and embers may differ based on the type of fuel and venting assembly that is used.



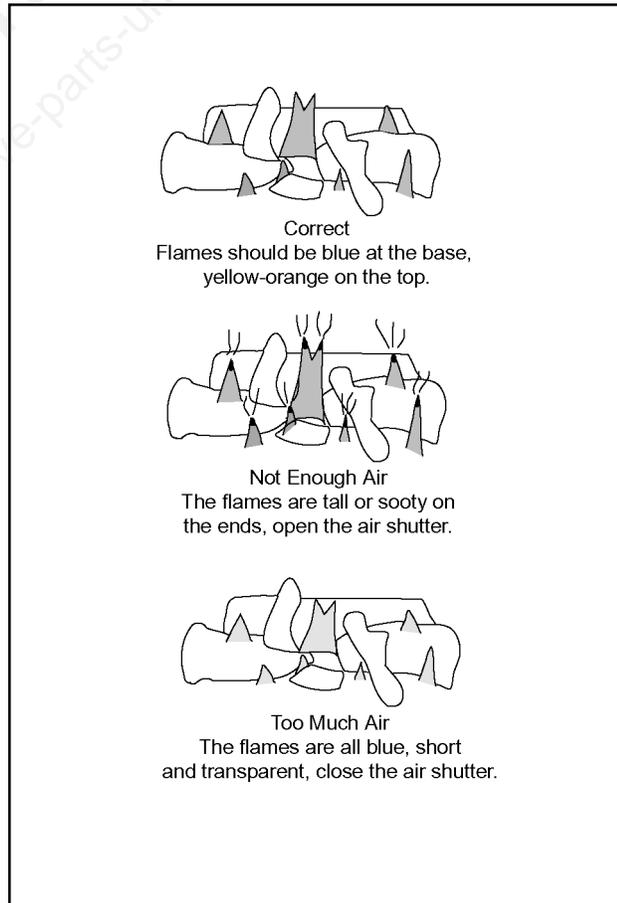
**Figure 42**  
**Standing Pilot**



**Figure 40**  
**Electronic Ignition**



**Figure 41**  
**Electronic Ignition**



**Figure 43**  
**Flame Patterns**

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### 3. VENTING SYSTEM INSPECTION

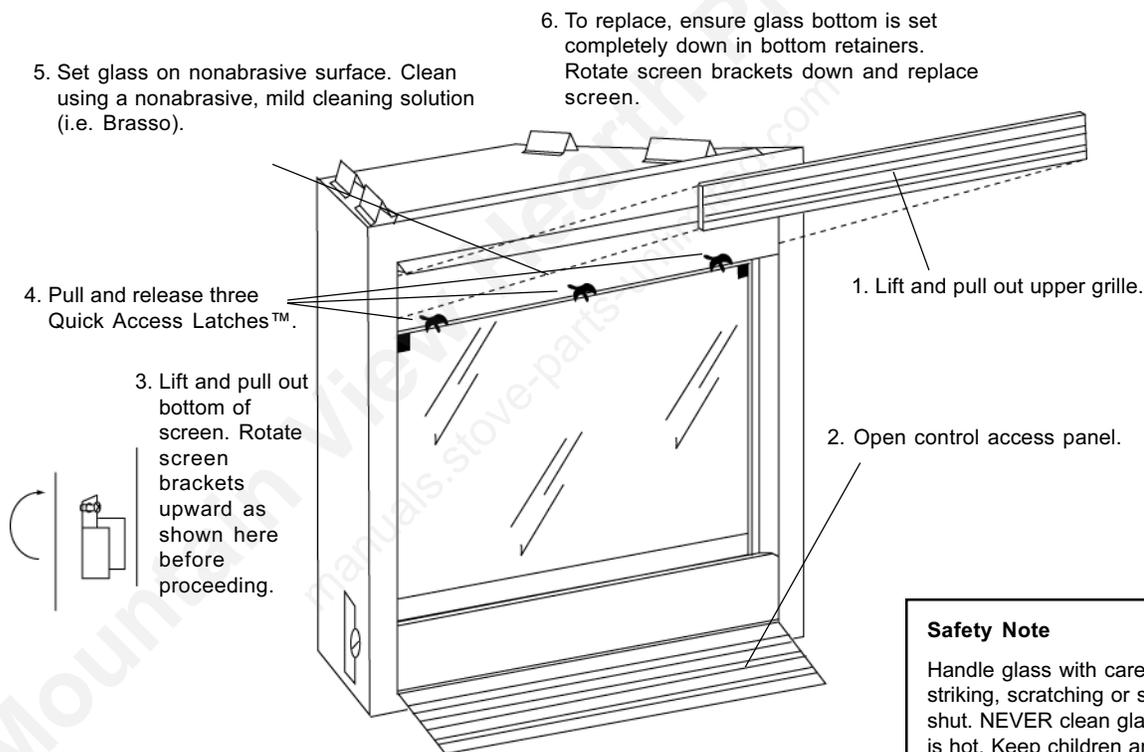
The appliance and venting system should be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

### 4. CLEANING THE GLASS

See Figure 44.

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

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 PIECES ARE HOT!** Replace glass with only a Heatilator brand glass panel assembly ordered direct or through your local distributor. Never use substitute material. Only fully tempered soda lime safety glass or ceramic glass may be used on this appliance.



**Figure 44**  
Glass Cleaning

**Safety Note**

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

### 5. LOG REMOVAL/REPLACEMENT

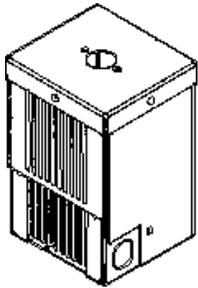
If removal of the logs becomes necessary, remove the two screws at the front of the grate. Grasp the two outside upright grate bars. Pull the log toward the front and up, off the burner. See Figure 45.

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.



**Figure 45 - Log Removal**

**N. OPTIONAL COMPONENTS**

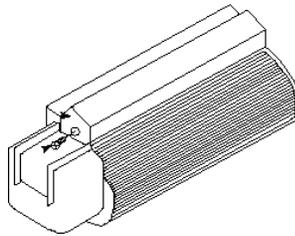


**BC11**  
Automatic Variable  
Blower Control  
(pictured)

**BC10**  
Fan Motor Rheostat Control

**BC12**  
Automatic Variable Blower  
Control

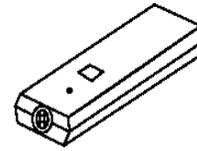
**BC14**  
Variable Fan Control with  
Thermostat



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

(pictured)

**FK21**  
Fan Kit  
(30" appliances only)

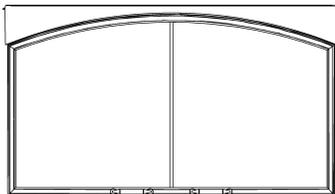


**RC-SMART-HTL**  
Remote Control  
**RC-ELEC-HTL**  
Remote Control  
(Electronic Ignition)  
**RC-BATT-HTL**  
Battery-operated Remote Control  
(Standing Pilot)

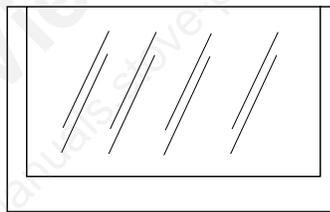
**RCT-MLT-HTL**  
Multi-Function  
Remote Control

**SMART-STAT-HTL**  
Remote Control  
with Thermostat Control

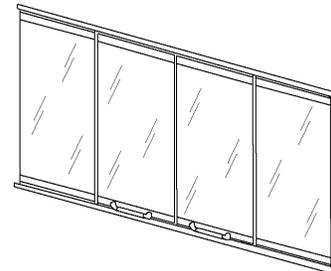
**SMART-BATT-HTL**  
Battery-operated Remote Control  
with Thermostat Control



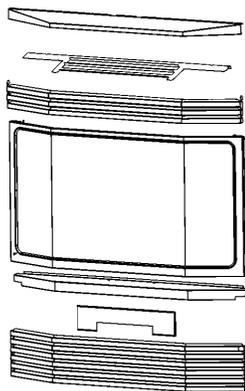
**DFA30/B**  
**DFA33/B**  
**DFA36/B/S**  
Cabinet-Style  
Arched Glass Door



**GP30 - Ceramic Glass-30"**  
**GP33 - Ceramic Glass-33"**  
**GP36 - Ceramic Glass-36"**



**DFN0B**  
**DFN3B**  
**DFN6B/S**  
Fixed Glass Door



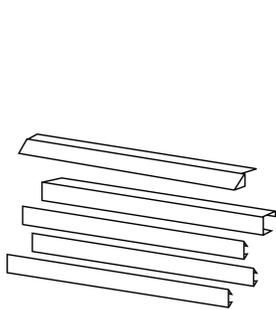
**DFBN36**  
Bay Door  
(36" appliance only)



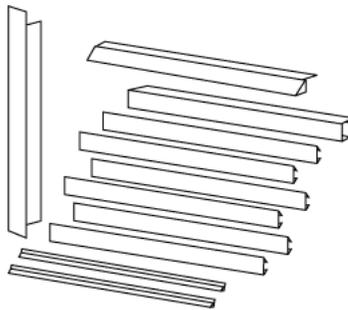
**TKB6**  
Polished Brass Trim  
Kit for Bay Door

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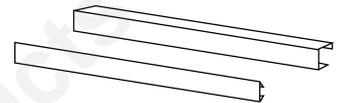
## OPTIONAL COMPONENTS (con't)



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



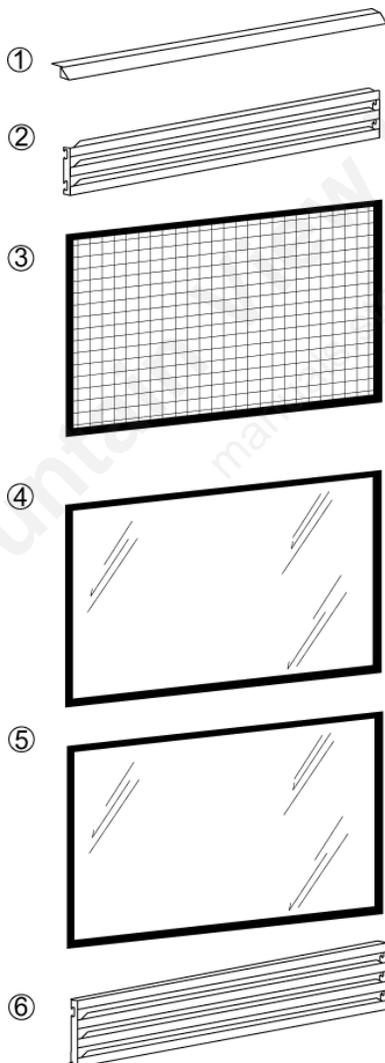
TKN02A/B/S, TKN32A/B/S,  
TKN62A/B  
Trim Kits



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

## O. REPLACEMENT PARTS

Replacement parts are available from your distributor/dealer.



**A**

ITEM	PART #	DESCRIPTION	QTY
A	34051	33/36" Novus Log & Grate Assy	1
	34923	30" Novus Log & Grate Assy	1
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	Dec. Glass w/Frame - 36"	1
	22711	Dec. Glass w/Frame - 33"	1
	22710	Dec. Glass w/Frame - 30"	1
5	22715	Heater Glass w/Frame - 36"	1
	22714	Heater Glass w/Frame - 33"	1
	22713	Heater Glass w/Frame - 30"	1
6	21582	Lower Grille - 36"	1
	21581	Lower Grille - 33"	1
	21580	Lower Grille - 30"	1

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# Index

## A

Appliance Locations 5  
Appliance Preparation 18  
    Lava Rock 18  
    Rock Wool 18  
    Vermiculite 18  
Attaching the Hood 17

## C

Certification 3  
Chase Installation 12  
Chimney Assembly 8  
Chimney Height 12  
Clearances 5  
Codes 3  
Combustible Materials 6  
Control Access Panel 17, 18  
Conversion Kits 21

## D

Disassembling Vent Sections 14

## E

Electronic Ignition 16, 23  
    Operation 21  
    Units 19  
    Wiring Diagram 16  
Exterior Wall Hole 9

## F

Finishing 17  
    High Temp Sealants 17  
    Noncombustible Materials 17  
Firebox Preparation 17  
Firestop Spacer Installation 12  
Flames  
    Blue 22  
    Checking the flame patterns 23  
    Ghosting 23  
Framing 6  
Fuel 21

## G

Gas Line 15  
Gas Line Connection 14  
Gas Pressure 15  
Glass  
    Condensation 22  
    Film 22  
Glass and Screen Removal 17  
Glass and Screen Replacement 18  
Grille Panel Removal 15

## H

High Altitude InstallAtion 14  
High Temperature Sealant Material 17  
Hood 17  
Horizontal Installation 3  
Horizontal Termination  
    Clearances 7  
    Vent Lengths 7

## I

Interior Wall Shield 9

## J

Junction Box 16  
Junction Box Wiring 16

## L

Lava Rock 18  
Lighting Instructions  
    Electronic Ignition 19  
Log Set 18

## M

Maintenance Instructions 23  
Mantel Heights 6  
Minimum Installation (MI) Sections 13

## N

Nomenclature 4  
Noncombustible Finishing Material 17  
Noncombustible Materials 6

## O

Odor 22  
Optional Components 25, 26

## R

Replacement Parts 26  
Rock Wool 18

## S

Safety Precautions 2  
Seasonal Checklist 21  
Setting the Appliance 6  
Slip Sections 14  
Space Requirements 5  
Standing Pilot Ignition 16, 23  
    Operation 21  
    Wiring Diagram 15  
Start-up Issues 22

## T

Termination Cap Locations 10  
Termination Installation 12

## U

Upper Grille Panel 17  
Utilities 14

## V

Venting 13  
    Assembling 13  
    Attach to Appliance 13  
    Disassembling Vent Sections 14  
    Minimum Installation (MI) Sections 13  
    Slip Sections - Assembly 14  
    Through the Wall 9  
Vermiculite 18  
Vertical Installation 3  
Vertical Termination  
    Chimney Height 12  
    Clearances 11  
    Multiple Terminations 12  
    Vent Lengths 11  
Vertical Termination Cap 12

## W

Wiring 15  
    Electronic Ignition 16  
    Wiring Diagram 16  
Junction Box 16  
Standing Pilot 15, 16  
    Wiring Diagram 15

The first name in fireplaces



## Gas Appliance (Fireplace) Limited Lifetime Warranty

**HEARTH TECHNOLOGIES INC. ("HTI")** extends the following warranty for HEATILATOR® gas appliances installed in the United States of America or Canada (the "Appliance"). Dealers and employees of HTI have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty.

### **Limited Lifetime Warranty.**

HTI warrants the Appliance for component failure due to a manufacturing defect of any of the following components: 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 Warranty.**

HTI warrants the Appliance to be free from failure of any of the following components for a period of one year after installation: 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 Appliance is found to be defective in either material or workmanship within one year of the date of original installation, HTI will provide replacement parts at no charge and pay reasonable labor and freight costs, and is for the period of one year following the date of original installation of the Appliance.

### **Conditions, Exclusions, & Limitations of Liability.**

- A.** Both the Limited Lifetime and 1 Year Limited Warranties supplied by HTI apply only while the Appliance is in its location of original installation. HTI'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 HTI; and/or (7) modification of the Appliance not expressly authorized and approved by HTI in writing. This warranty is limited to only the component parts manufactured or supplied by HTI.
- B.** HTI's liability under both the Limited Lifetime Warranty and the 1 Year Limited Warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HTI may fully discharge all of its obligations under such warranties by repairing the defective component(s) or at HTI's discretion, providing replacement parts at no charge and paying reasonable labor and freight costs.
- C. EXCEPT TO THE EXTENT PROVIDED BY LAW, HTI 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.**
- D.** Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

### **How to Obtain Service.**

To obtain service under this warranty you must:

1. Send written notice of the claimed condition to Heatilator Technical Service Department, Hearth Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563. You may also register your claim online at [www.heatilator.com/contact.asp](http://www.heatilator.com/contact.asp).
2. Provide proof of purchase, model number, serial number, and manufacturing date code to HTI.
3. Provide HTI 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 HTI'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, call 1-800-843-2848.

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