



heatilator®

The first name in fireplaces

Hearth Technologies-Mt. Pleasant
1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
Division, HON INDUSTRIES
www.heatilator.com

This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual
service parts list located on the brand websites.

INSTALLATION & OPERATING INSTRUCTIONS

CALIBER NXT DIRECT VENT

CNXT70E/90E

HEATER LISTED



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 this appliance to the elements (such as rain, etc.).

WARNING!

The fixed glass panel on the front of this heater is extremely hot while it is in operation and for one hour after it has been shut off. A secondary barrier has been provided to prevent direct contact with the fixed glass panel. Do not operate this appliance with the barrier removed.

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

Safety Precautions	2
A. Appliance Specifications	3
Caliber Nomenclature	4
B. Location and Clearances	6
C. Framing	7
D. Setting the Appliance	7
E. Conversion from Top Vent to Rear Vent	8
F. Venting and Termination	11
G. Utilities	19
H. Finishing	23
I. Appliance Preparation	23
J. Lighting Instructions	26
K. Seasonal Check List	27
L. Start-up Issues	28
M. Maintenance Instructions	29
N. Optional Components	31
O. Replacement Parts	33
Index	39
Warranty	40

WARNING!

Do NOT use this appliance if any part has been under water! You must call a qualified service technician immediately to inspect the appliance and to replace any part of the control system or gas control that has been under water.

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 Caliber 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. APPLIANCE SPECIFICATIONS

1. U.S. and Canada Certification

The Caliber NXT gas appliance has been tested in accordance with the ANSI standard Z21.88-2000 in the United States, the current CSA 2.33-2000, IR41, P4, and IR66 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.

2. 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., and the **CAN/CGA B149, Installation Codes** in Canada.

The Caliber NXT gas appliance has also 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.

If you need assistance during installation, contact your local dealer or the Heatilator Technical Services Dept., Hearth Technologies Inc. (HTI), 1915 W. Saunders St., Mt. Pleasant, IA 52641, 1-800-843-2848.

HEATILATOR® is a registered trademark of Hearth Technologies, Inc.

3. Efficiency

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

4. Glass Certifications/Specifications

Heatilator gas appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the CPSC. The tempered glass has been tested and certified to the requirements of ANSI Z97.1-1984 and CPSC 16 CFR 1202. (Safety Glazing Certification Council SGCC# 1595 and 1597. Architectural Testing, Inc. Reports 02-31919.01 and 02-31917.01.)

This statement is in compliance with SPCS 16 CFR Section 1201.5 "Certification and labeling requirements" which refers to 15 USC 2063 stating "...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

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

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

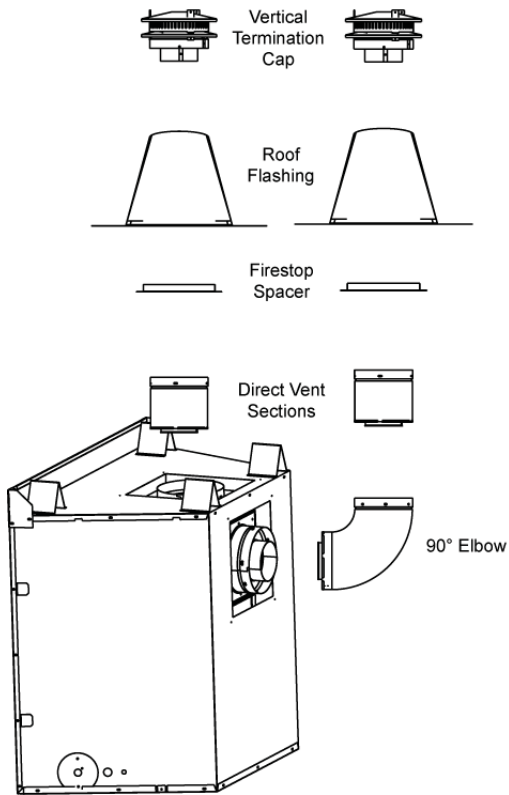
Tools and building supplies normally required for installation:

Saw	Framing Material
Pliers	Appliance Surround
Hammer	Caulking Material
Phillips Screwdriver	Gloves
Tape Measure	Framing Square
Plumb Line	Electric Drill and Bits
Level	Wall-finishing materials
Safety Glasses	

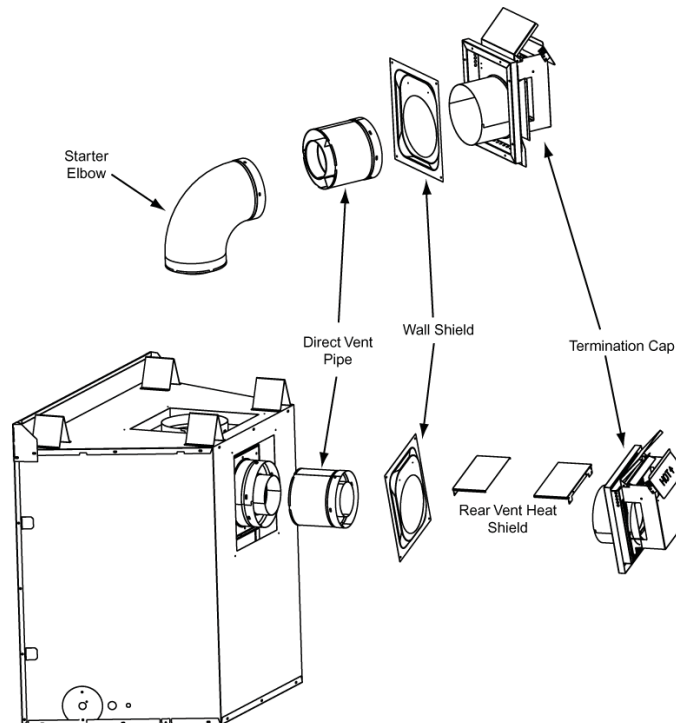
CALIBER NOMENCLATURE

Catalog #	Description
CNXT70E	41" width, 36" opening, intermittent pilot, natural gas appliance
CNXT90E	47" width, 42" opening, intermittent pilot, natural gas appliance
The following suffixes are defined as follows:	
No suffix	Natural gas
L	Propane gas
T	Traditional refractory
H	Herringbone refractory
Examples:	CNXT70LET is a propane gas with traditional refractory appliance CNXT90EH is a natural gas with herringbone refractory appliance
Installation Components	Description
CS	Direct Vent Cap Shield (for horizontal termination only)
VP-TH	Standard Horizontal Termination Cap with 5" collar
VP-TR	Standard Horizontal Termination Cap with 5" collar and heat shield - rear vent
VP-TR2	Standard Horizontal Termination Cap with 3.5" collar and heat shield - rear vent
VP-TV	Vertical Termination Cap
VP-VT1	Horizontal Termination Cap
VP-VT1X	Extended Horizontal Termination Cap
VP-TB1	Basement Horizontal Termination Cap
VP-THK	Horizontal Top Vent Kit: VP-TH, WS6, VP6-9, VP90ST
VP-THK-MI	Horizontal Top Vent Kit: VP-TR, WS6, Heat Shield, VP24MI, VP90ST
VP-TRK	Horizontal Rear Vent Kit: VP-TR, WS6, Heat Shield, VP6-9
VP-TRK2	Horizontal Rear Vent Kit: VP-TR2, WS6, Heat Shield, VP4
VP45	45° Elbow
VP90ST	90° Starter Elbow
VP90	90° Elbow
VP4	4" Vent Pipe
VP6	6" Vent Pipe
VP12	12" Vent Pipe
VP24	24" Vent Pipe
VP36	36" Vent Pipe
VP48	48" Vent Pipe
VP12MI	12" Non-unitized Vent Section (can be cut to length)
VP24MI	24" Non-unitized Vent Section (can be cut to length)
VP6-9	6-9" Slip Section
VP9-14	9-14" Slip Section
VP14-24	14-24" Slip Section
FS6	Firestop Spacer
WS6	Wall Shield to ensure horizontal clearances
VSS2	Vinyl Soffit Shield
RF6	Roof Flashing (vertical termination for 0/12 to 6/12 pitch)
1243S	Steep Pitch Roof Flashing (for 7/12 to 12/12 pitch)
VS4	Vertical Vent Support

Typical Vertical Installations (Rear and Top Vent Shown)

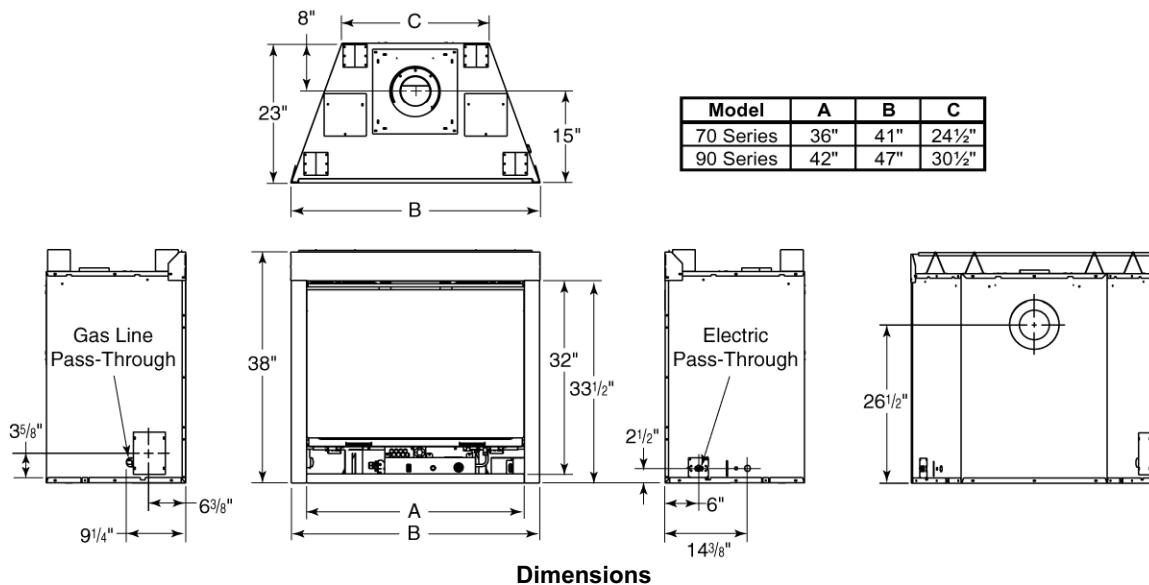


Typical Horizontal Installations (Rear and Top Vent Shown)



The first name in fireplaces

B. LOCATION AND CLEARANCES



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 NXT 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.

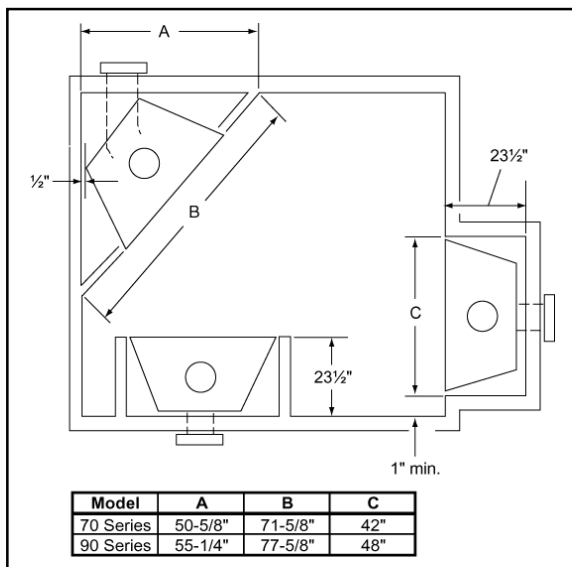


Figure 1 - Appliance Locations

2. Clearances

Figure 2 shows all clearances that must be maintained around the appliance. See page 11 for termination cap clearances and pages 12 and 16 for pipe clearances.

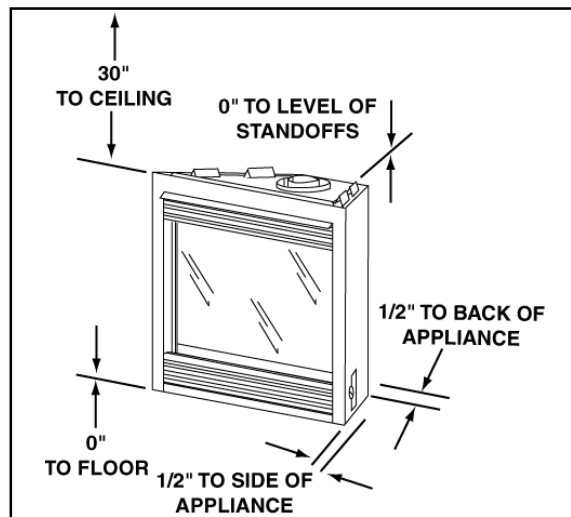


Figure 2
Appliance Clearances to Combustible Materials

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

C. FRAMING

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

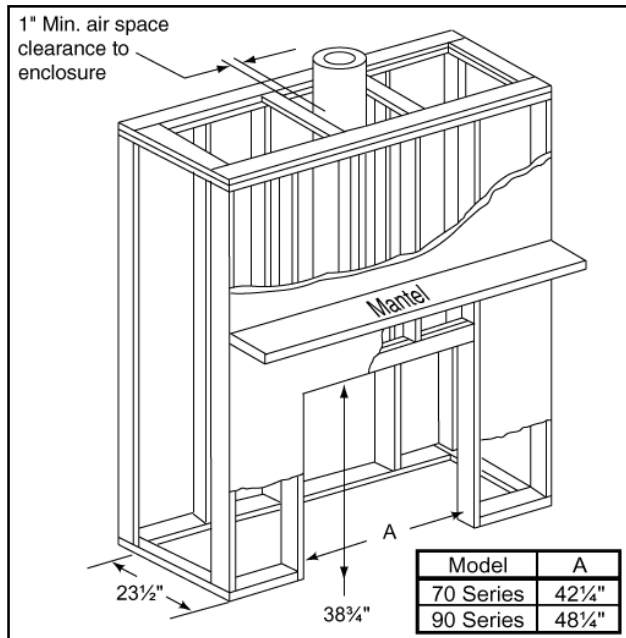


Figure 3 - Framing

Mantel Projection	Height	Framing must be above standoffs.
9" - 12"	52"	
6" - 9"	49"	
3" - 6"	46"	
0 - 3"	43"	

Mantel height listed is measured from the BASE of the appliance.

12" is the maximum mantel projection allowed.

Figure 4 - Mantel Heights

CAUTION:
Wear gloves and safety glasses for protection.

CAUTION:
Provide adequate accessibility clearances around the upper and lower grilles for servicing and proper operation.

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.

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 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" back from the front of the appliance to allow the addition of drywall.

WARNING!

This appliance may use only the approved venting systems shown in these installation instructions. It must not be connected to a chimney flue servicing a separate solid fuel or gas fuel burning appliance.

Note: If the appliance is to be top vented, remove and discard the plate (Figure 5) and replace the screw you removed in Step 1.

E. CONVERSION FROM TOP VENT TO REAR VENT

1. Remove one screw holding the cover plate (see Figure 5) to the top of the appliance and set aside to be used in Step 14 if you are converting to rear vent.
3. Remove the cover plate (four screws) from the top pan heat shield and discard. See Figure 7.

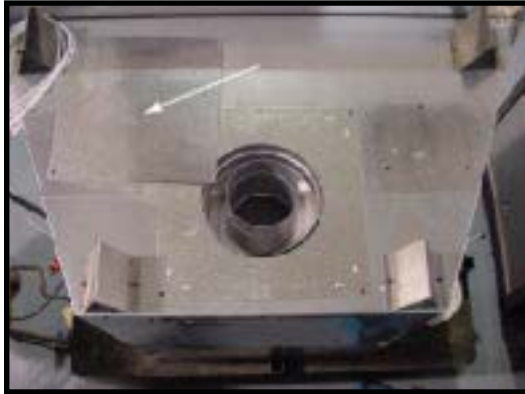


Figure 5 - Cover Plate, Top of Appliance

Note: When converting from Top Vent to Rear Vent, retain all parts removed from the top. They will be used again, with the exception of the top pan heat shield removed in Step 3.

2. Remove four screws holding the plate surrounding the flue. See Figure 6. Remove the plate.



Figure 6 - Remove Plate Screws

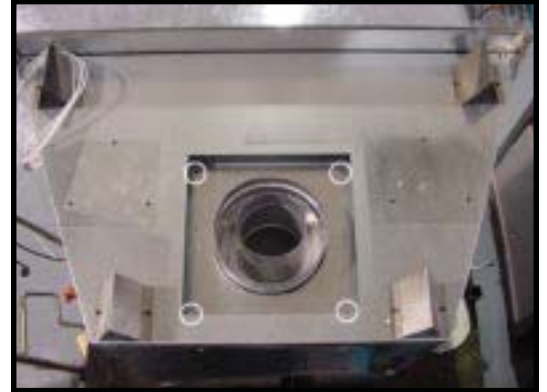


Figure 7 - Cover Plate, Top Pan

4. Remove four screws holding the outer collar to the appliance top. See Figure 8. Remove the outer collar.

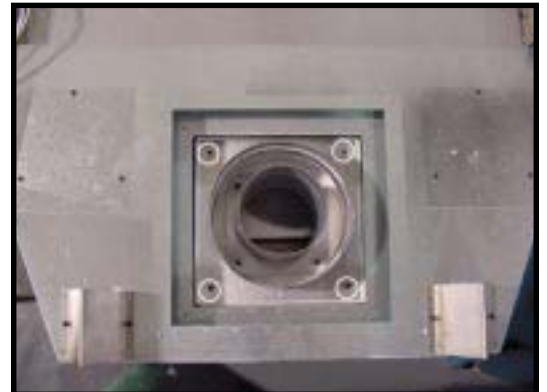


Figure 8 - Remove Screws from Outer Collar

5. Remove four screws holding the inner collar to the appliance top. See Figure 9. Remove the inner collar.



Figure 9 - Remove Screws from Inner Collar

6. Remove four screws holding the back cover plate on. Remove the cover plate. See Figure 10.

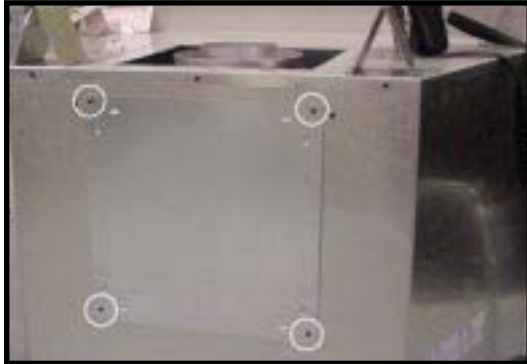


Figure 10 - Back Cover Plate

7. Remove four screws holding the outer cover plate to the appliance back. See Figure 11. Remove the outer cover and white gasket.

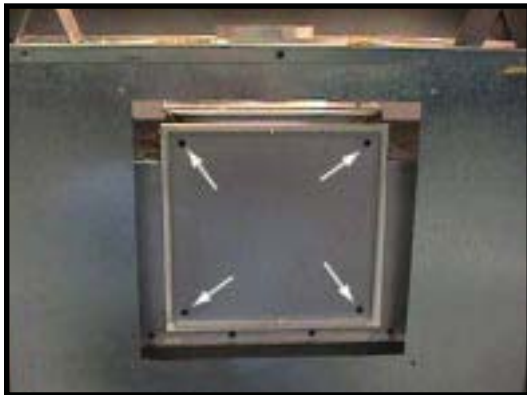


Figure 11 - Remove Outer Cover Plate

8. Remove four screws holding the inner cover plate to the appliance back. See Figure 12. Remove the inner cover and white gasket.



Figure 12 - Remove Inner Cover Plate

9. Place the inner collar on the appliance back and replace the four screws to hold this collar in place. See Figure 13.



Figure 13 - Place Inner Collar on Rear of Appliance

10. Place the outer collar on the appliance back and replace the four screws to hold this collar in place. See Figure 14.



Figure 14 - Place Outer Collar on Rear of Appliance

11. Locate the plate removed in Step 2. Place the plate around the rear vented collars and replace the four screws to hold the plate in place. See Figure 15.



Figure 15 - Place Plate on Rear of Appliance

The first name in fireplaces

12. Place the inner cover plate and white gasket (removed in Step 8) on the appliance top and replace the four screws to hold the inner cover plate in place. See Figure 16.

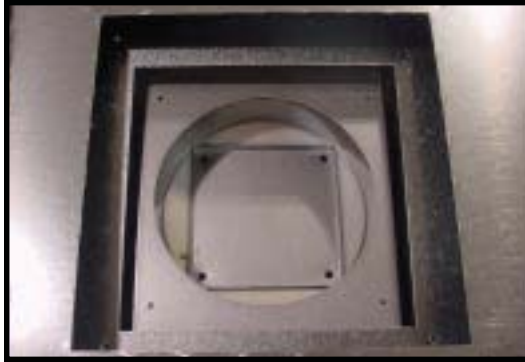


Figure 16 - Place Inner Cover Plate on Top of Appliance

13. Place the outer cover plate and white gasket (removed in Step 7) on the appliance top and replace the four screws to hold the outer cover plate in place. See Figure 17.

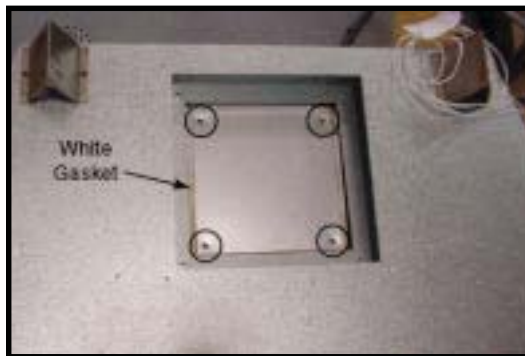


Figure 17 - Place Outer Cover Plate on Top of Appliance

14. Locate the cover plate removed in Step 1 and place on top of the top pan heat shield. Replace the four screws to hold this plate in place. See Figure 18.

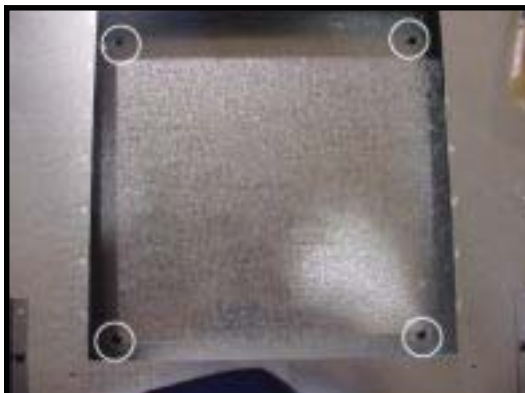


Figure 18 - Cover Plate

15. Locate the cover plate removed in Step 6. Place the plate on top of the appliance. See Figure 19. Replace the four screws to hold this plate in place. See Figure 20.

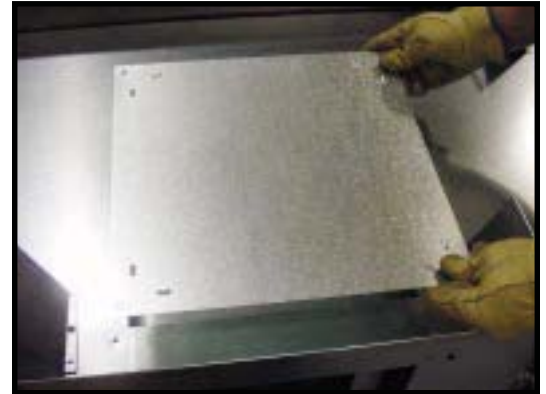


Figure 19 - Plate on Top

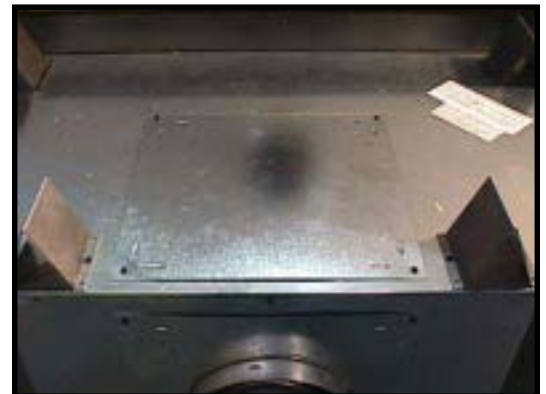


Figure 20 - Plate into Place

16. The appliance should look like the one shown in Figure 21 after it has been converted to a rear vent appliance.



Figure 21 - Completed Conversion

F. VENTING AND TERMINATION

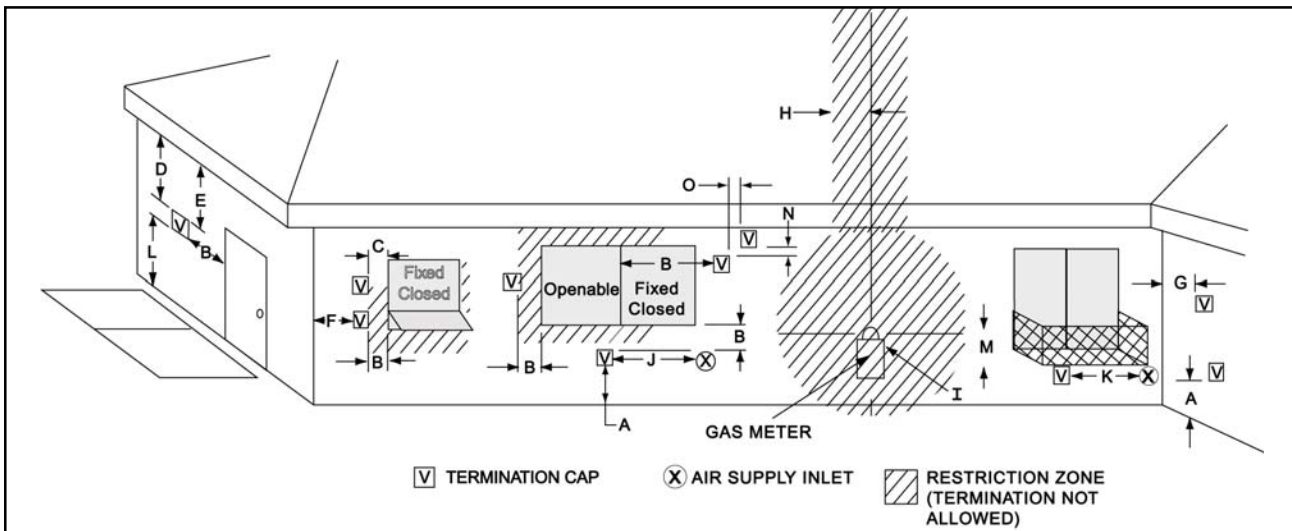


Figure 22 - Termination Cap Locations

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

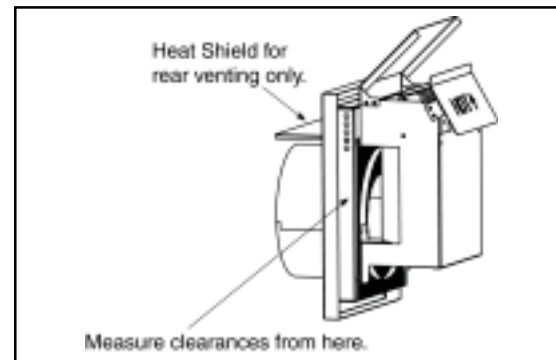
- N** Vertical clearance between two horizontal termination caps - 12 inches (30 cm) minimum.
- O** Horizontal clearance between two horizontal termination caps - 12 inches (30 cm) minimum.
- * As specified in CGA B149 Installation Codes
Note: Local codes or regulations may require different clearances.
- ** 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.



Measure Clearances

1. Horizontal Termination

a. Clearances

See Figures 23 and 24 for clearance information.

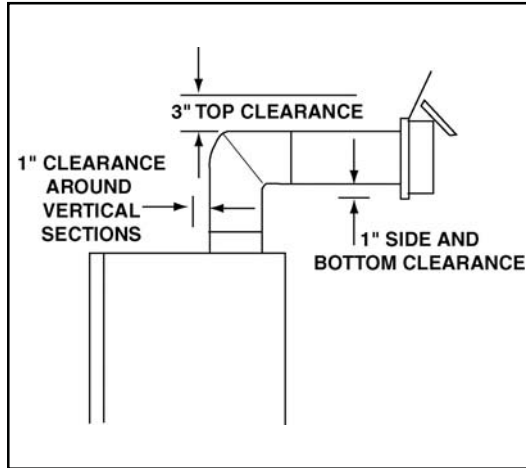


Figure 23 - Venting Clearances to Combustible Materials (Top Vent)

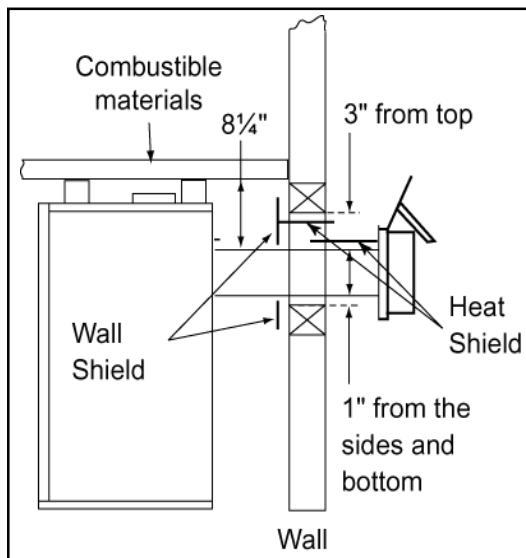


Figure 24 - Venting Clearances to Combustible Materials (Rear Vent)

Note: Starter elbows cannot be used in any rear vented configuration.

CAUTION:

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

b. Vent Lengths for Top Vent (see page 13 for Rear Vent)

Various venting configurations are shown in Figures 25-28 from which maximum vent lengths can be determined.

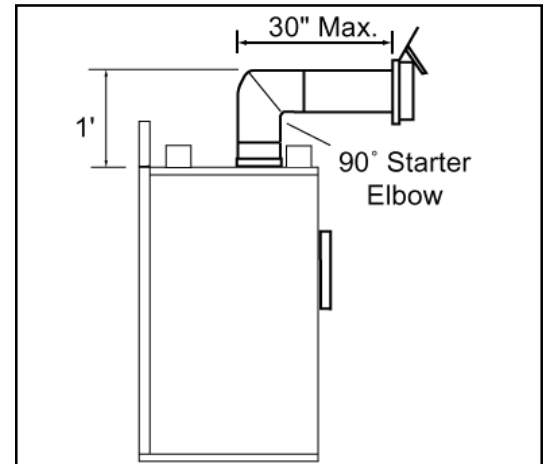


Figure 25 - Vent Lengths with One Elbow (minimum vertical)

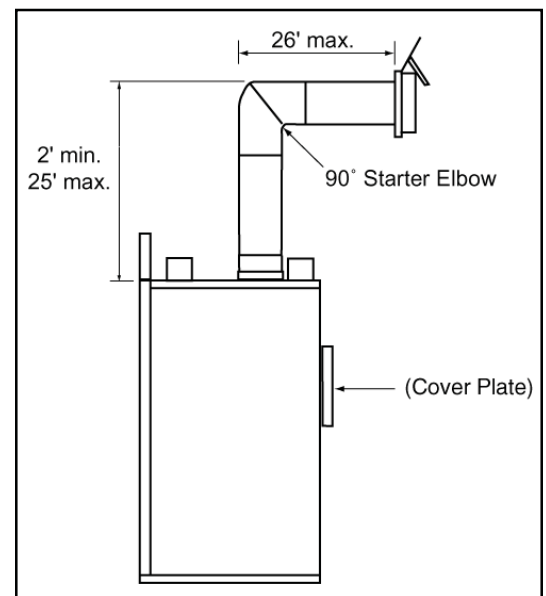


Figure 26 - Vent Lengths with One Elbow (2' vertical or more, 25' maximum)

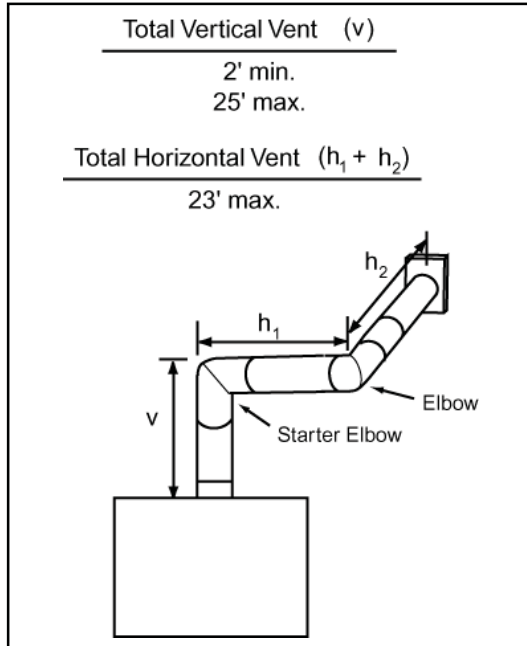


Figure 27 - Vent Lengths with Two Elbows

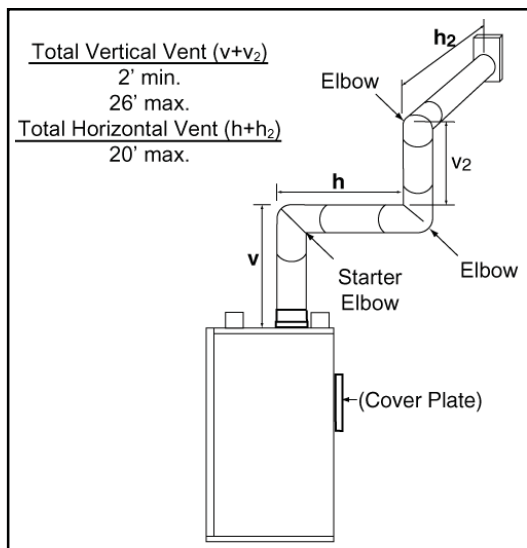


Figure 28 - Vent Lengths with Three Elbows

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 create a fire hazard.

c. Vent Lengths for Rear Vent

Various venting configurations are shown in Figures 29-32.

Note: Starter elbows cannot be used in any rear vented configuration.

1) No Elbows

The maximum horizontal run, with no vertical sections of vent, is 18 inches from the back of the appliance to the base of the cap. See Figure 29.

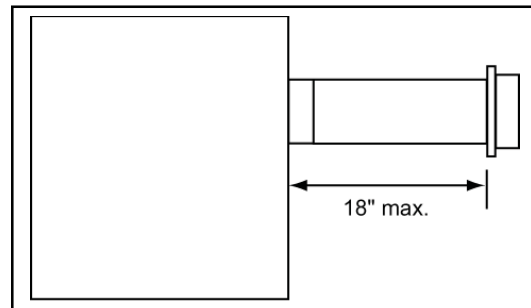


Figure 29 - No Elbows

2) 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 30.

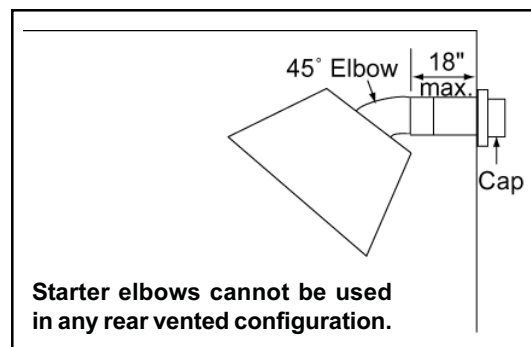


Figure 30 - 45° Elbow

3) Two Elbows

Elbows used on rear-vented configurations should be either a 90° or a 45° elbow. **Starter elbows CANNOT be used in any rear-vented configuration.** Figure 31 shows various venting configurations using two elbows to terminate horizontally.

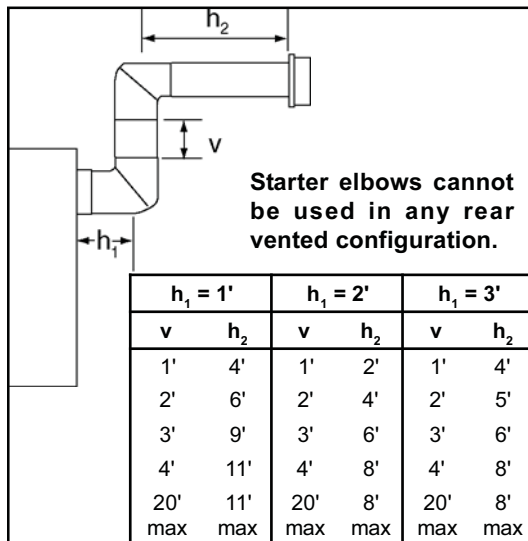


Figure 31 - Two Elbows

4) Three Elbows

Elbows used on rear-vented configurations should be either a 90° or a 45° elbow. **Starter elbows CANNOT be used in any rear-vented configuration.** Figure 32 shows various venting configurations using three elbows to terminate horizontally.

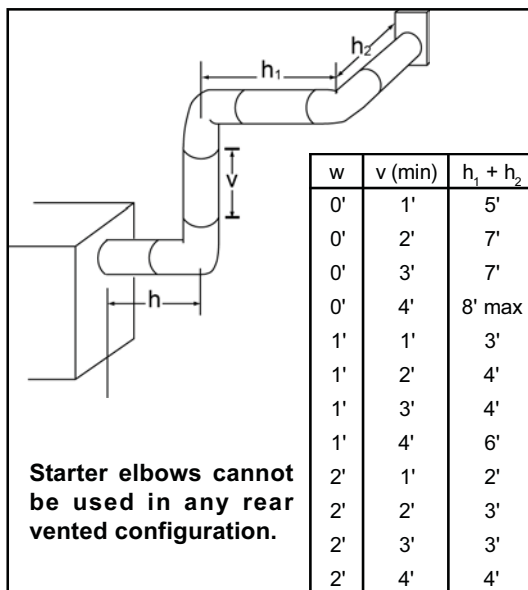


Figure 32 - Three Elbows

d. Installing the Interior Wall Shield

Whenever a combustible wall is penetrated, the hole must be framed (as shown in Figure 33) to receive an interior wall shield (Figure 34). This shield maintains minimum clearances and restricts cold air infiltration.

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

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

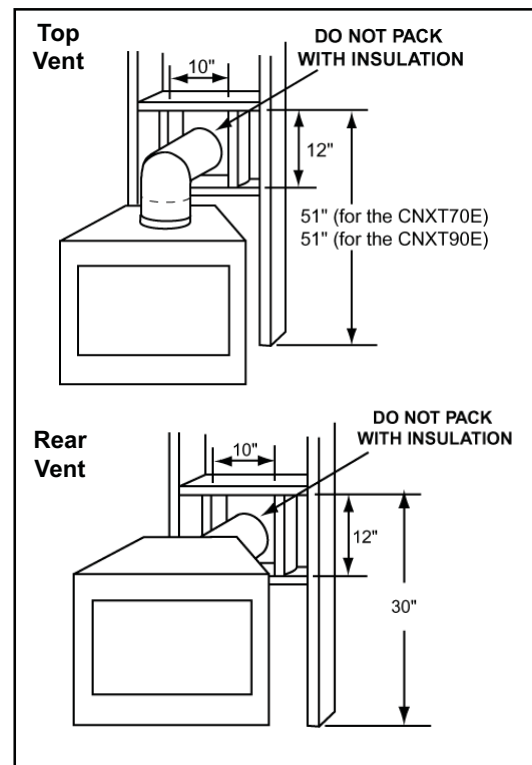


Figure 33 - Exterior Wall Hole

Secure the shield to the framing as shown in Figure 33.

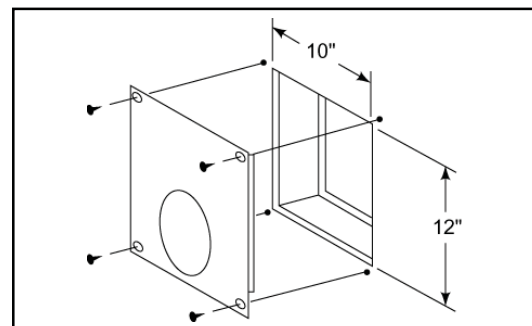


Figure 34 - Interior Wall Shield

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

The last section of vent may require cutting, depending upon the wall thickness and appliance location. The cap should overlap the vent sections by at least 1½". See Figure 35.

Note: If cutting is necessary, you must use VP12MI and VP24MI pipe.

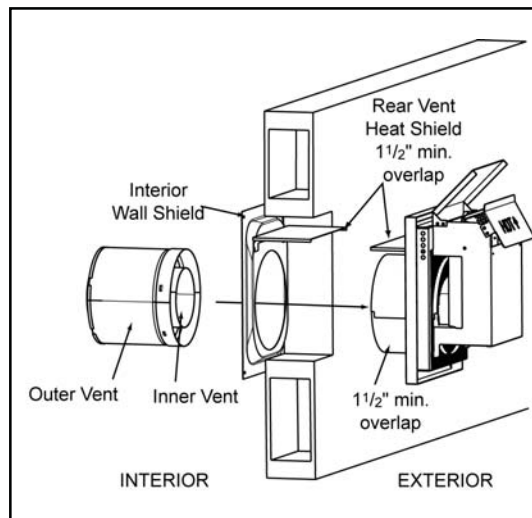


Figure 35 - Venting Through the Wall

e. Installing the Rear Vent Heat Shield

For rear vented appliances a heat shield **MUST** be placed 1 inch above the top of the vent between the wall shield and the termination cap. There are two sections of the heat shield. One section attaches to the wall shield with two screws. The remaining section is attached to the cap in the same manner. The sections of the heat shield will overlap to match the wall thickness (depth). The small leg on the shield should rest on the top of the vent to properly space it from the pipe section. See Figure 36. This heat shield is not necessary on top vented appliances.

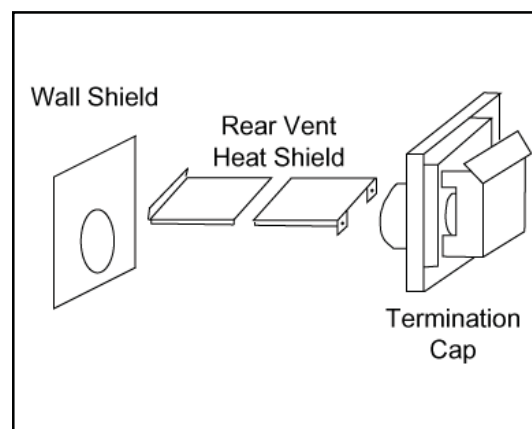


Figure 36 - Rear Vent Heat Shield

WARNING - RISK OF FIRE!

Be sure there won't be any future obstructions from trees, bushes, snow drifts, etc.

WARNING - RISK OF FIRE!

Always maintain minimum air space clearances or greater around the appliance and vent system.

f. Termination

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

Install the cap as shown in Figure 35. Cap pipe sections should overlap the vent pipe by 1½ inches. Caulk outside edges of cap.

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

Figure 22, page 11 illustrates cap locations prescribed by current Z223.1 and CAN/CGA-B149 Installation Codes.

CAUTION:

A vinyl soffit shield (VSS2) should be installed if a cap is within 30" of a vinyl soffit.

The first name in fireplaces

2. Vertical Termination

a. Top and Rear Vent Clearances

See Figure 37 for clearance information.

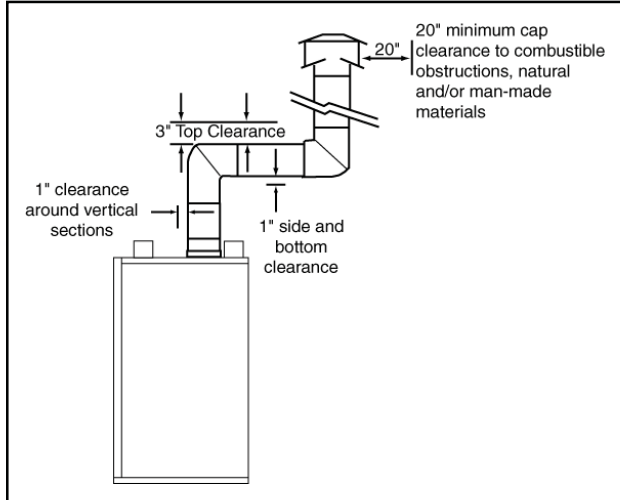


Figure 37
Vertical Termination Clearances
(top vent shown)

b. Top Vent Lengths

Various venting configurations are shown in Figures 38 and 39 from which maximum vent runs can be determined.

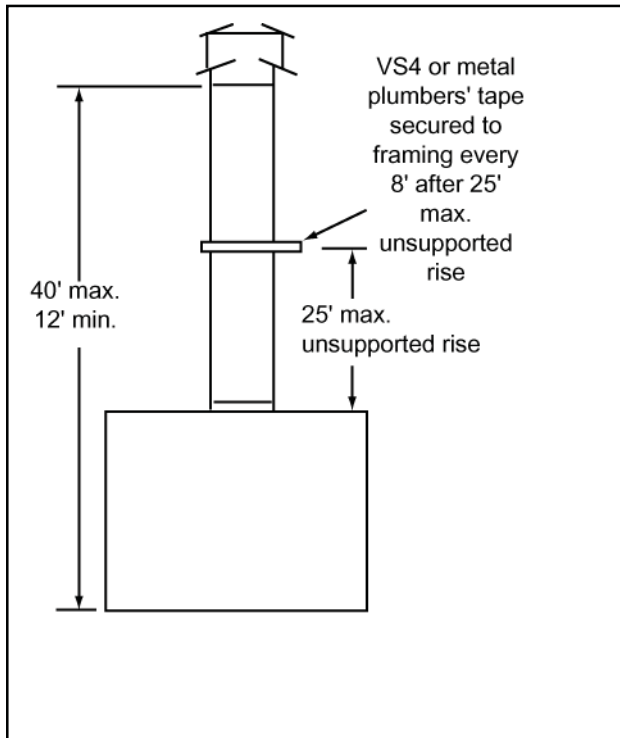


Figure 38
Vertical Termination Vent Lengths

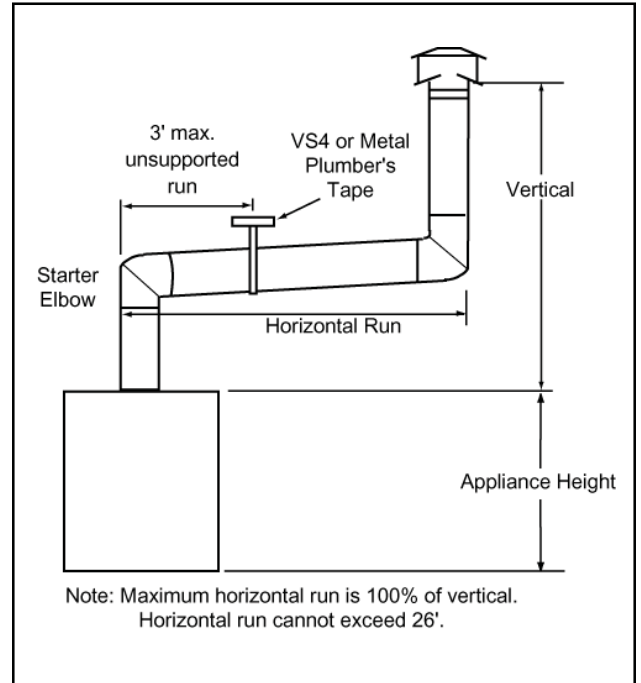


Figure 39
Maximum Horizontal Vent Lengths

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

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 create a fire hazard.

c. Rear Vent Lengths

Attach a rear vent kit straight section or an elbow (depending upon your specific installation) to the appliance. See Figure 40. **Starter elbows CANNOT be used in any rear vented configuration.** A maximum of three elbows are allowed in the vent system. Use only pipe listed with this appliance. **ALWAYS MAINTAIN MINIMUM AIR SPACE CLEARANCES OR GREATER AROUND THE VENT SYSTEM.** Do not pack air spaces with insulation or other material.

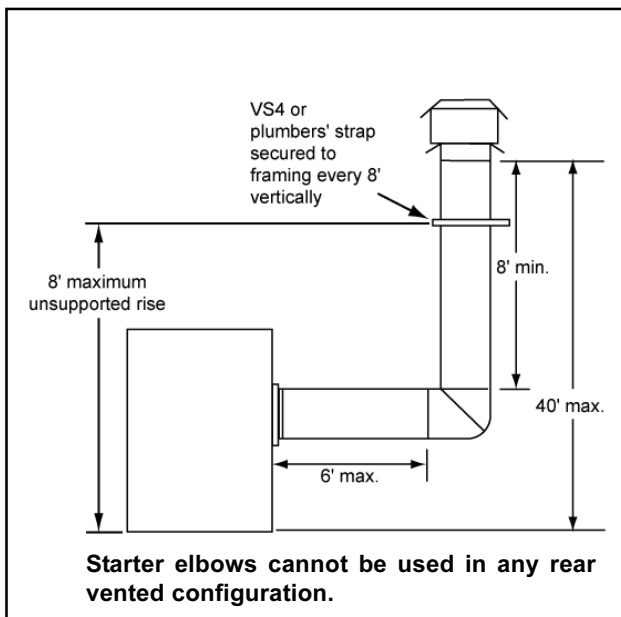


Figure 40
Rear Vent Length Allowances for
Vertical Termination Only

CAUTION:

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

WARNING - RISK OF FIRE!

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

d. Firestop Spacer/Vent Installation

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 41. 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 vent.

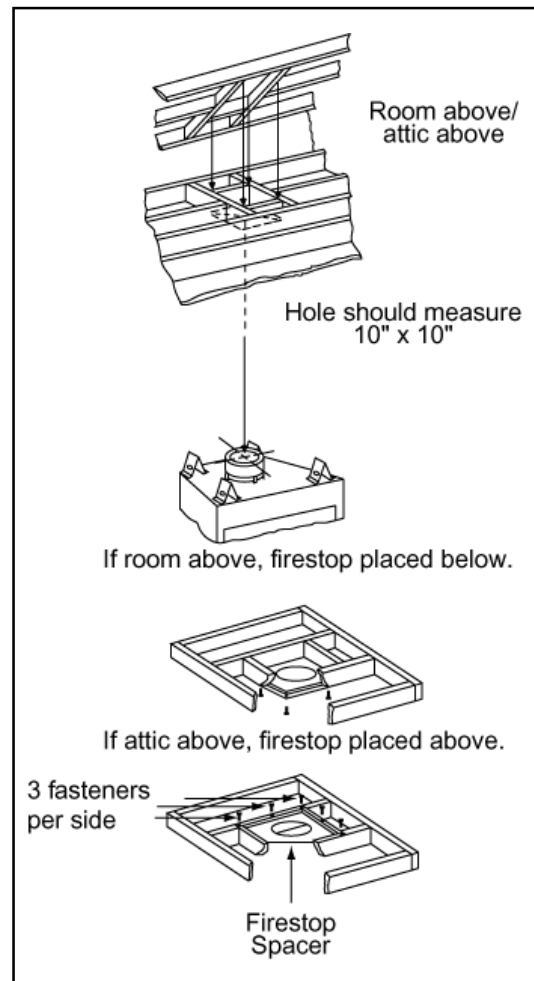


Figure 41
Installing the Firestop Spacer

e. Chase/Termination Installation

Figures 42 and 43 and Table 1 specify minimum vent heights for various pitched roofs.

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.

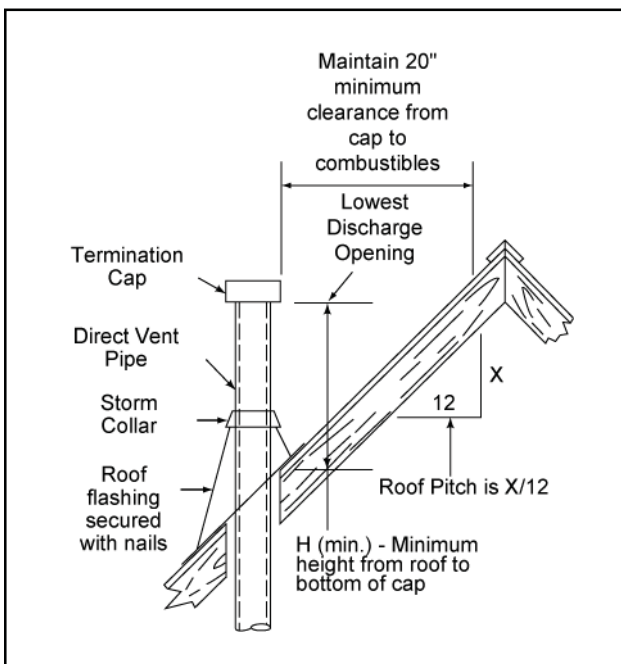


Figure 42 - Vent Height for Vertical Termination

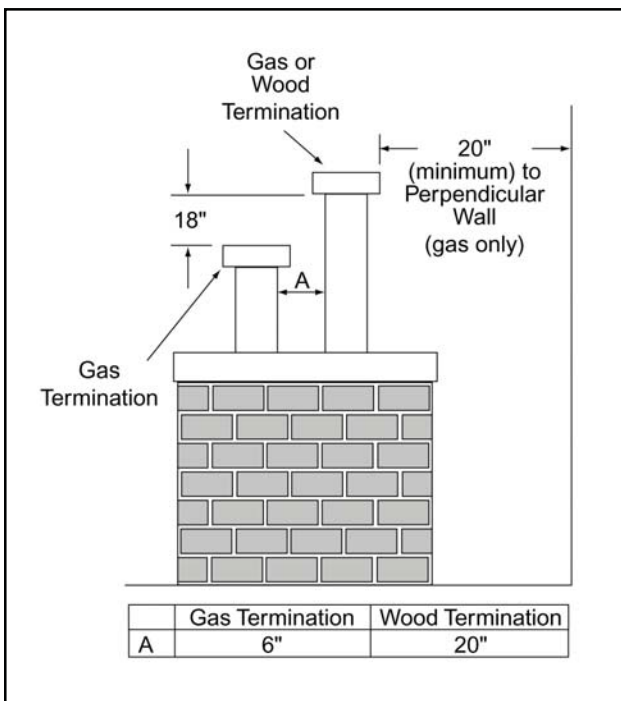


Figure 43 - Multiple Vertical Terminations

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

3. Assembling the Vent Sections

a. Attaching the Venting to the Appliance

To attach the first VP section to the appliance collars, simply slide the flared end of the inner vent of the VP section over the inner collar on the appliance. At the same time, insert the outer vent into the outer collar on the appliance. Push the vent section into the appliance collar until all the lances have snapped in place. Tug slightly on the vent to confirm it has completely locked into 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 44. 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 45.

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

Make sure that the seams are not aligned to prevent unintentional disconnection.

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

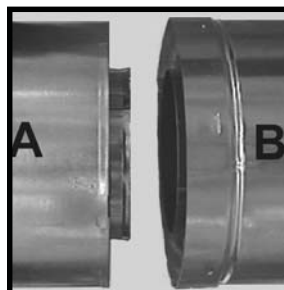


Figure 44

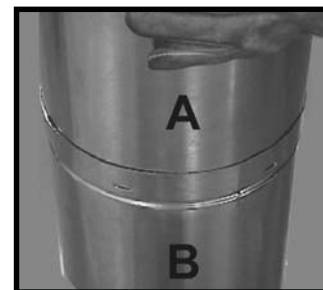


Figure 45

c. Assembling Minimum Installations (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 46. They can then be attached by first connecting the expanded end of the MI inner vent with the inner vent from the adjacent vent section and securing with three screws. The expanded portion of the MI inner vent must overlap completely with the untreated end of the adjacent vent section. The outer vent can then be inserted into the adjacent outer vent 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.

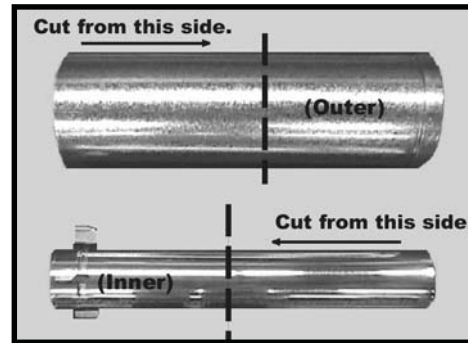


Figure 46

d. Assembling 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 two sections of the slip section then need to be secured by driving two screws through the overlapping portions of the outer vent. See Figure 47. 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.

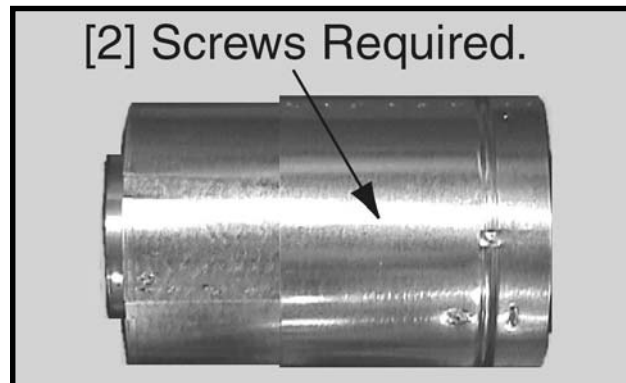


Figure 47

e. Disassembling Vent Sections (only if necessary)

To disassemble any two pieces of pipe, rotate one section so that the seams on both pipe sections are aligned as shown in Figure 48. They can then be carefully pulled apart.

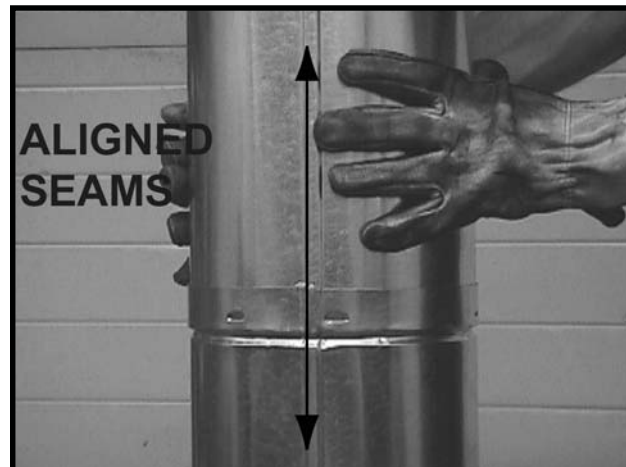


Figure 48

G. 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

The appliance is provided with a stainless steel flexible connector and a listed (and Commonwealth of Massachusetts approved) tee-handle manual shutoff valve. See Figure 49. 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. See Figure 50 to connect the gas line. Optional: Seal around gas line to prevent cold air leakage.

All connections must be tightened and checked for leaks with a soap and water solution or a leak detector.

Bleed the gas line to extract any air that may have been trapped inside the pipe.

Note: Have the gas supply line installed in accordance with building codes by a qualified installer approved and/or licensed as required by the locality. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

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).



Figure 49
Flex Connector & Manual Shutoff Valve

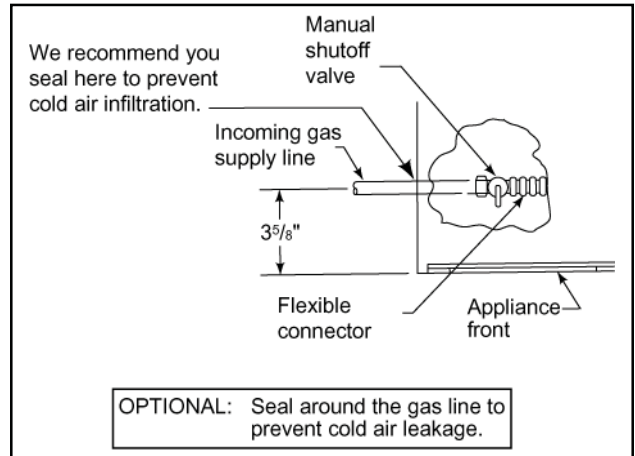


Figure 50 - Gas Line

3. Gas Pressure

A pressure tap is included on the front face of the intermittent pilot ignition gas control valve.

Table 2 shows optimum gas pressure information. Consult your local gas company for assistance in determining the proper orifice for your altitude or refer to ANSI Z223.1-latest edition, Appendix F.

Table 3 shows orifice sizes and BTU ratings.

4. Field Fuel Conversion

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 DCKVPNXT Conversion Kit. To be converted to use natural gas, you must use a DCKVNNXT Conversion Kit.



WARNING

THIS VALVE HAS BEEN PRESET AT THE FACTORY. ALTERING SETTINGS MAY RESULT IN FIRE HAZARD OR BODILY INJURY.

CALIBER NXT 70/90	
Inlet Gas Supply Pressure (N.G.)	4.5 (min.) - 7.0 (max.) in w.c.
Optimal Manifold Pressure (N.G.)	3.5 in. w.c.
Inlet Gas Supply Pressure (L.P.)	11.0 (min.) - 14.0 (max.) in. w.c.
Optimum Manifold Pressure (L.P.)	10 in. w.c.

Table 2
Gas Information for Intermittent Pilot Ignition Appliances

CALIBER NXT	70	90
Input Rate (N.G.)	40,000 BTU/hr.	45,000 BTU/hr.
Input Rate (L.P.)	37,500 BTU/hr.	40,000 BTU/hr.
Orifice Size (N.G.) Front	.059 in./1.49 mm	.067 in./1.70 mm
Orifice Size (N.G.) Back	.110 in./2.79 mm	.110/2.79 mm
Orifice Size (L.P.) Front	.035 in./89 mm	.035/.89mm
Orifice Size (L.P.) Back	.063 in./1.60 mm	.067 in./1.70 mm

Table 3
Gas Information for Intermittent Pilot Ignition Appliances

5. Wiring - Intermittent Pilot Ignition (IPI)

- a. **Appliance Requirements:** This appliance requires a 110V AC supply to the appliance junction box for operation. A wiring diagram is shown in Figure 52.

This appliance is equipped with an intermittent pilot control valve which operates on a 3 volt system. See ignition wiring diagram, Figure 51.

The appliance is supplied with a battery pack and a 3 volt AC transformer, which requires the installation of the supplied junction box. It is highly recommended that the junction box be installed at this time to avoid reconstruction. The battery pack requires two D cell batteries (not included). Batteries cannot be placed in the battery pack while using the 3 volt AC transformer. Conversely, the transformer must be unplugged if the battery pack is used.

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

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: 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 C22.1.1.

CAUTION:

Battery polarity must be correct or control module damage will occur.

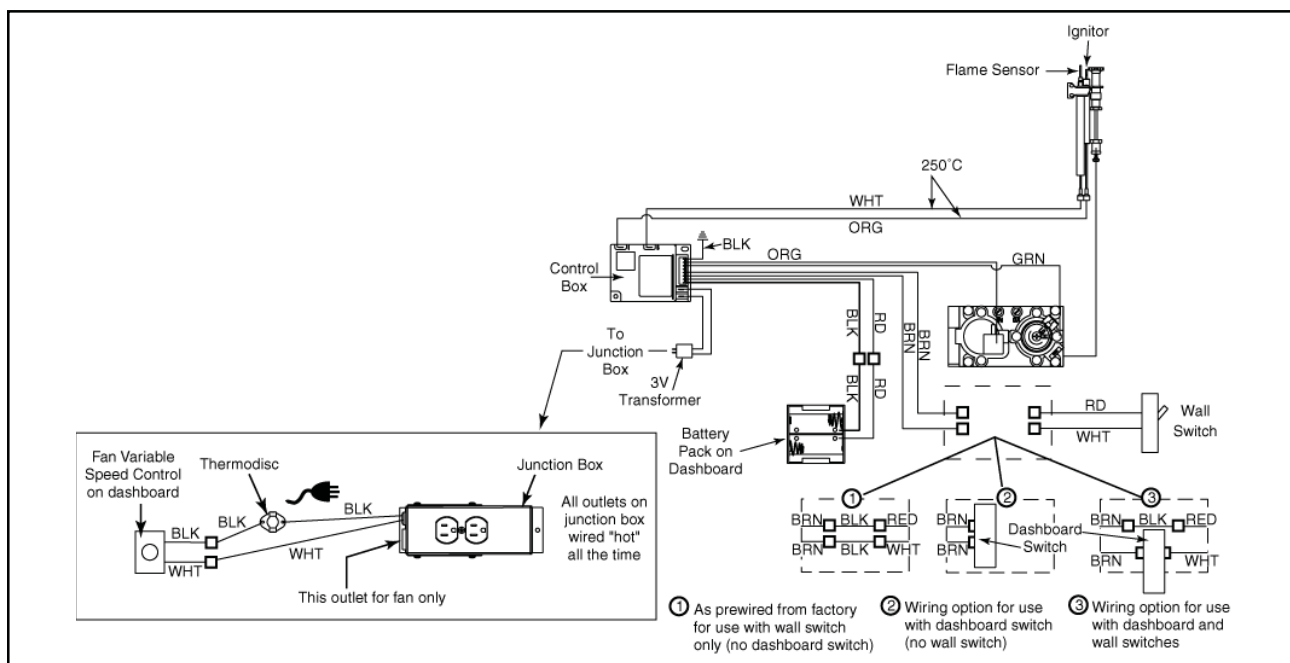


Figure 51 - Intermittent Pilot Ignition Wiring Diagram

c. Wall Switch Wiring

This appliance is pre-wired from the factory for use with a wall switch only.

d. Dashboard Switch Wiring

- 1) Find the two brown wires from the control box.
- 2) Disconnect these two brown wires from the two black jumper wires.
- 3) Connect the two brown wires to the male connectors on the back of the dashboard switch.

See Figure 51, #2 detail.

e. Wall Switch and Dashboard Switch Wiring

This appliance can be wired to run through both switches.

- 1) Find one of the black jumper wires that connects one brown wire from the control box and to one side of the wall switch wire.
- 2) Disconnect this black jumper wire from both ends and discard.
- 3) Connect the free end of the brown control box wire to one of the male connectors on the back of the dashboard switch.
- 4) Connect the free end of the wall switch wire to the other male connector on back of the dashboard switch.

See Figure 51, #3 detail.

f. Fan Variable Speed Control (located on dashboard)

To connect the variable speed control into the fan circuit:

- 1) Find the black wire from the thermodisc and connect to the black wire from the variable speed control.
- 2) Connect the white wire from the junction box to the white wire from the variable speed control.

Note: The fan will not operate without the variable speed control wired.

Note: If you wire the appliance to use both switches, both switches have to be ON for the appliance to run, although you will be able to shut the appliance off with either switch.

6. Junction Box Installation

- a. Remove the junction box assembly from the valve compartment.
- b. If the box is being wired from the OUTSIDE of the appliance;
 - 1) Loosen two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 2) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 3) Attach the junction box assembly to the outside of the appliance with the two screws provided.
- c. If the box is being wired from the INSIDE of the appliance;
 - 1) Pull the electrical wires from outside the appliance through this opening into the valve compartment.
 - 2) Loosen the two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 3) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 4) Attach the junction box assembly to the inside of the appliance with the two screws provided.
- d. If the box is not to be wired at the time of appliance installation, assemble the receptacle and cover to the box and install on the inside of the appliance.

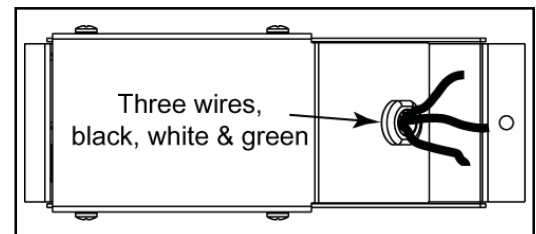


Figure 52 - Junction Box Detail

H. 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" minimum bead width, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 53.

A combustible mantel may be installed. Please refer to Figure 4, page 7.

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

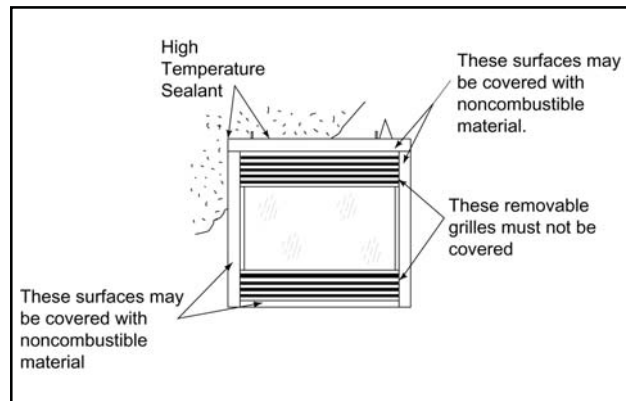


Figure 53 - Finishing Materials

I. APPLIANCE PREPARATION

1. Glass Removal

Remove the glass as shown in Figure 65 on page 30.

2. Dashboard Installation

- Remove the dashboard (located in the upper firebox, center, attached with three screws). See Figure 54.

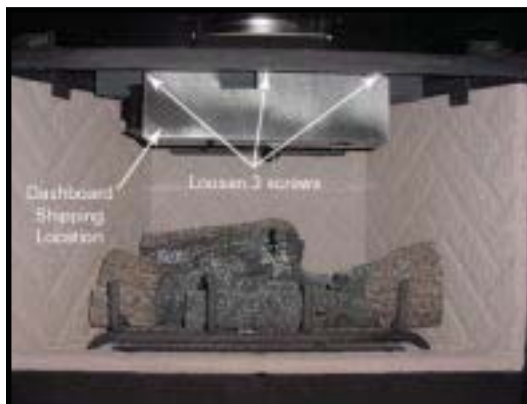


Figure 54 - Shipping Location of Dashboard

- Rotate the dashboard and place under the firebox (make sure the battery box wires are in the slot on the dashboard).
- Align the dashboard holes with the three holes on the control panel and attach with the three screws previously removed from the control panel. If any wires are exposed, tuck them behind the dashboard.
- See page 22 for dashboard switch wiring.



Figure 55 - Screw Locations

- Locate and remove the two screws on the left side of the control panel and one screw on the right side. See Figure 55.
- Hold the dashboard in front of the lower part of the appliance and plug in the wire as shown in Figure 51, page 21.

3. Placing the Rock Wool

Place a small amount of ½" diameter pieces on all exposed parts of the hearth log, but not on the burners. This will provide the "glowing embers" look. It is not necessary to use the entire bag. Save the remainder for future use. See Figure 56.

4. Setting the Logs - CNXT70E (36")

(For the CNXT90E log set up, skip to Step 5.)

See page 34 for log illustrations.

- Place LEFT FRONT LOG on the far left grate bar so the notch on the log sets on the horizontal portion of the grate bar and the body of the log is on the grate burner. See Figure 57.
- Place LEFT TOP LOG on the white notches of the left center log and the back log. Set the log so that the "Y" is pointed down. See Figure 58.
- Place RIGHT CENTER LOG on the white notches in the left center log and the back log. The log should set on the log tab welded to the back of the far right grate bar. The long leg of the "Y" in the log should point towards the front center of the log set. See Figure 59.



Figure 56 - Placing the Rock Wool



Figure 57 - Set Left Front Log



Figure 58 - Set Left Top Log



Figure 59 - Set Right Center Log

5. Setting the Logs - CNXT90E (42")

See page 34 for log illustrations.

- a. Place LEFT FRONT LOG on the front left corner of the far left grate bar. The rounded notch in the bottom of the log should set over the grate bar with the remainder of the log setting on the hearth log. See Figure 60.



Figure 60 - Setting the Left Front Log

- b. Place TOP LEFT LOG so that the burnt tip of the log sets against the left center grate bar. The body of the log should rest on the white groove on the left center log and the groove in the back log (natural gas). See Figure 61. If your appliance is set up for LP gas, this log will not set on the back log.



**Figure 61 - Placing Top Left Log
(Natural Gas Shown)**

- c. Place RIGHT CENTER LOG so that the groove in the bottom of the log sets on the right grate bar. The log should set on the tip of the left center log against the log tab and against the tab on the right grate bar. See Figure 62.



Figure 62 - Placing the Right Center Log

6. Placing the Lava Rock and Vermiculite (optional)

You can place lava rock behind the sides of the hearth refractory. A small amount of vermiculite can be sprinkled over the lava rock. It is not necessary to use the entire bag.

7. Placing the Fire Glow

Fire glow (FIRE98) is a flame colorant material that adds to the realism of the gas appliance flame. After placing the rock wool in the appliance, sprinkle some of the fire glow on top of the rock wool. As with the lava rock, vermiculite and rock wool, it is not necessary to use the entire bag. Save the remainder for future use.

8. Replacing the Glass

Replace the glass as shown in Figure 65 on page 30.

WARNING - RISK OF CARBON MONOXIDE!!

Do not hit or strike glass. Do not operate this appliance if the glass is broken or cracked. NEVER operate this appliance with the glass removed or not sealed.

The first name in fireplaces

J. LIGHTING INSTRUCTIONS

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.

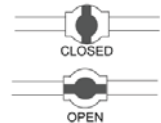
- A. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the 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 close the gas line. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

INTERMITTENT PILOT IGNITION LIGHTING INSTRUCTIONS

1. Turn wall or dashboard switch to the OFF position.
2. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
3. Wait five minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you do not smell gas, go on to the next step.
4. Turn the switch to the ON position.
5. If the appliance will not operate, follow the instructions "TO TURN OFF THE GAS TO THE APPLIANCE" and call your service technician or gas supplier.
6. If using the battery pack and the appliance will not operate, check the batteries for sufficient charge and replace if necessary.

TO TURN OFF THE GAS TO THE APPLIANCE

1. Turn off the wall or dashboard switch.
2. Open control access panel. Turn manual shutoff valve to the CLOSED position. Do NOT force.
3. Close control access panel.



K. 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.

1. Intermittent Pilot Ignition Operation

- a. **Lighting the appliance during regular use:** Turn dashboard and/or wall switch to "ON".
- b. **Shutdown during regular use:** Turn all switches to "OFF".
- c. **To shut down the appliance for a long period of time:**
 - 1) Turn all switches to "OFF".
 - 2) Turn the manual shutoff valve to "CLOSED".
- d. To relight the appliance, see page 26.

2. 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 Hearth Technologies Inc. specified and approved parts.
- c. If your intermittent pilot appliance must be converted to use propane, you must use a DCKVPNXT Conversion Kit. To convert to use natural gas, use a DCKVNNXT Conversion Kit.

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!

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.

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.

WARNING!

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

M. MAINTENANCE INSTRUCTIONS

1. Annual Maintenance

To ensure that your heater operates in a safe and efficient manner, your heater needs to be inspected at least on an annual basis by a qualified field service person. Like any gas appliance, your heater must be tuned up to ensure optimum performance.

2. 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. Always turn off the wall (or dashboard switch) and the gas valve before cleaning.

3. Checking Flame Patterns

- a. 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. The sensor tip should be covered with flame from the pilot. See Figure 63.
 - **Correct** - Flames should be blue at the base, yellow-orange at the top.
 - **Not Enough Air** - The flames are tall or sooty on the ends. Open the air shutter.
 - **Too Much Air** - The flames are all blue, short and transparent. Close the air shutter.
- b. 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. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off the gas to the appliance and contact the dealer.
- c. To reduce the possibility of soot, we have provided your appliance with an adjustable air shutter. Your air shutter is provided in the closed position for natural gas and in the open position for propane. It takes 16 full turns (360°) to move the air shutter from fully OPEN to fully CLOSED. In the event soot is accumulating in your appliance, the air shutter should be opened farther. This can be done by opening the control access panel and locating the air shutter handle (Figure 64) located on the bottom of the appliance. When the fixed wing bolt is turned all of the way **DOWN**, the air shutter is fully **closed**. When the fixed wing bolt is turned all the way **UP**, the air shutter is fully **open**.

4. 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.

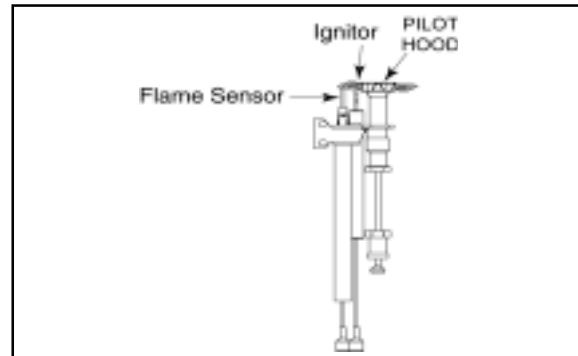


Figure 63 - Intermittent Pilot Ignition Assembly

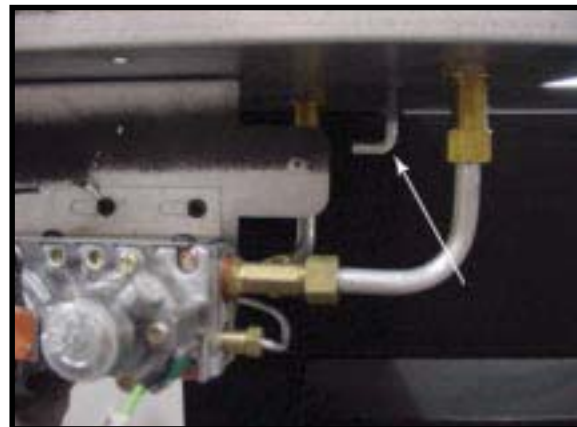


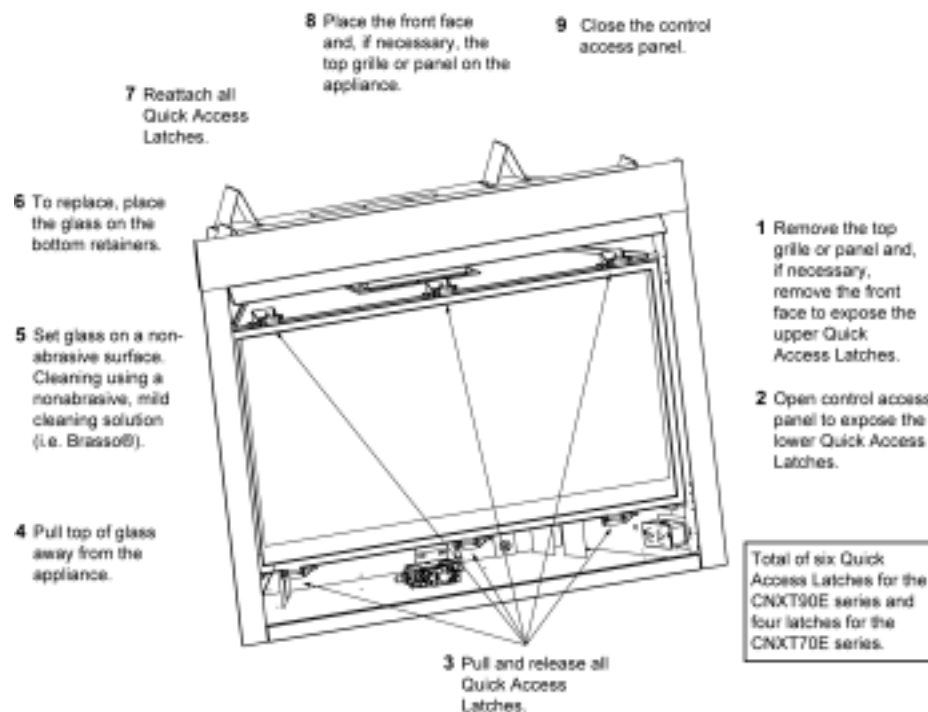
Figure 64 - Air Shutter Handle Location

The first name in fireplaces

5. Cleaning the Glass

The glass panel and its gasket must be inspected at least once a year. See Figure 65 for glass panel removal instructions.

- Carefully inspect the fixed glass door gasket to make certain it is sealing properly. Check for worn spots, or where the gasket may have come loose from the frame. Replace the gasket if it is worn or has come loose from the frame.
- Clean the glass (only when cool!) with a nonabrasive cleaner such as Brasso®.
- Never operate this appliance without the glass properly secured in place or if the glass is broken.
- 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 the glass only with a Heatilator glass panel assembly ordered through your local distributor. Never use substitute material. Only ceramic glass may be used on this appliance.



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 65 - Glass Removal

6. Log Removal/Replacement

If removal of the logs becomes necessary, remove the three loose logs first. Remove three screws, two on each end of the grate burner assembly and one on the back foot of the far right grate bar. Lift the grate burner assembly up until the right side clears the hearth refractory. While still lifting, swing the right end towards you until the opposite end of the assembly clears the hearth. Replacement is done in reverse order. Be sure to reattach three screws.

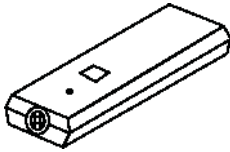
To remove the back log, remove the five screws (two on each end, one in the front center) holding the log bracket. Lift the log and bracket out of the appliance. Installation is in reverse order.

To remove the hearth logs, remove four screws (two in each log) and lift out. Installation is in reverse order.



Figure 66 - Three Screws-Grate/Burner Assy.

N. OPTIONAL COMPONENTS



RC-SMART-HTL
Remote Control

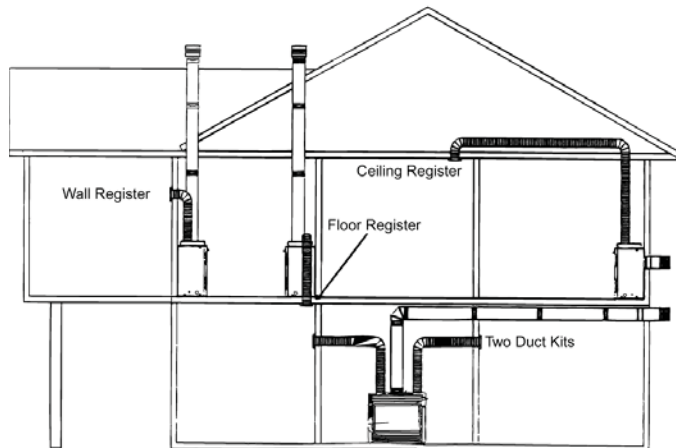
RC-BATT-HTL
Battery-operated Remote
Control (Standing Pilot)

RCT-MLT-HTL
Multi-Function
Remote Control

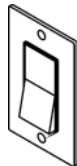
SMART-STAT-HTL
Remote Control with
Thermostat Control

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

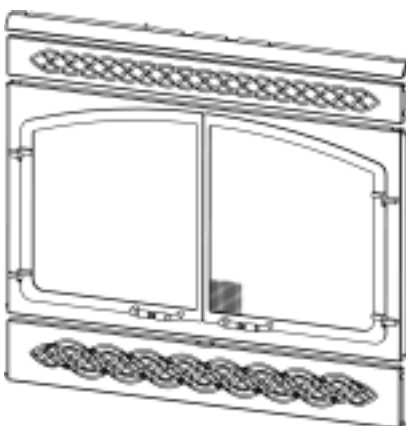
HTZ-2000 Heat Transfer System
Possible Air Duct Runs/Locations



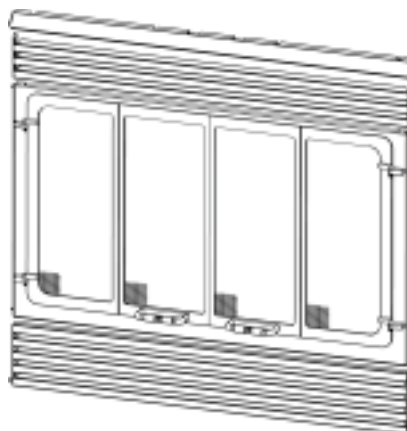
HTZ-2000
Heat Transfer System (Fan with cover and 20' flex)



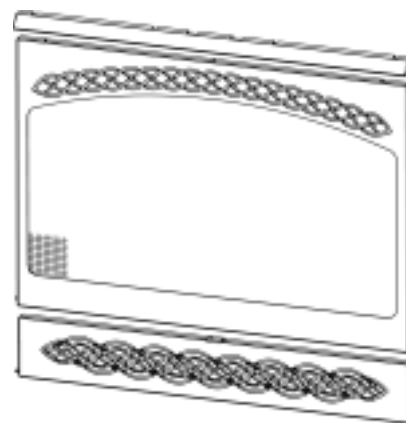
WSK-MLT-HTL
Multi-Function Wall Switch



NXT-AMD 70/90



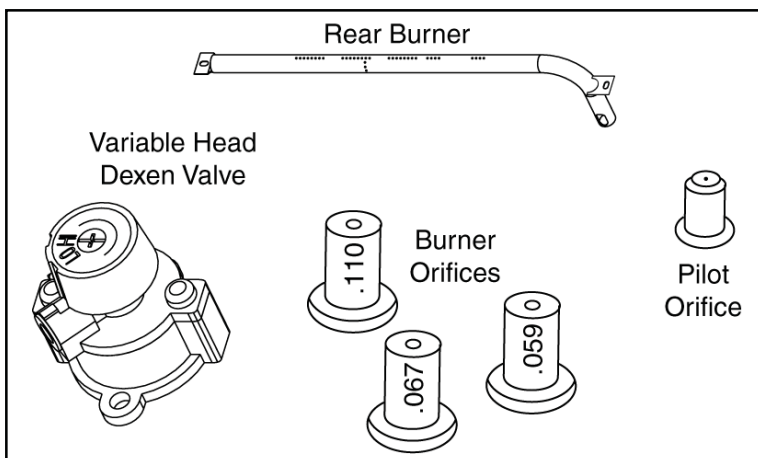
NXT-BFMD 70/90



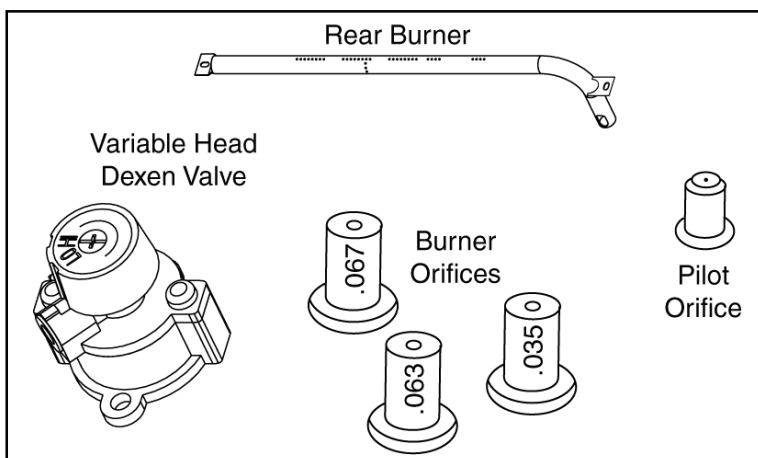
FF-NXT 70/90 BS
FF-NXT 70/90 PWT
FF-NXT 70/90 AC

The first name in fireplaces

OPTIONAL COMPONENTS (con't)



DCKVNNXT
Conversion Kit
Propane to Natural Gas
(IPI)



DCKVPNXT
Conversion Kit
Natural to Propane Gas
(IPI)

Homeowner's Notes Page

The first name in fireplaces

Homeowner's Notes Page

The first name in fireplaces

Homeowner's Notes Page

The first name in fireplaces

Index

A

Air Shutter Handle Location 29
Appliance Locations 6
Appliance Preparation 23
Assembling Vent Sections 18
Attaching Venting to the Appliance 18

B

BTUs 21
Building Codes 3, 11, 15

C

Chase Installation 18
Cleaning
 Burner & Control Compartments 29
 Glass 30
Clearances 6, 12
Codes
 Building 3, 11, 15
 Electric 21, 22
 Gas 3, 19, 20
Combustible Finishing Material 23
Combustible Materials 6
Components, Included 4
Conversion from Top Vent to Rear Vent 8

D

Dashboard
 Fan Variable Speed Control 22
 Installation 23
 Shipping Location 23
 Switch Wiring 22
Disassembling Vent Sections 19

E

Electric Codes 21, 22
Exterior Wall Hole 14

F

Fan Variable Speed Control 22
Field Fuel Conversion 20
Finishing 23
Finishing Material 23
Fire Glow 25
Firestop Spacer 17
Flame Patterns 29
Flex Connector 20
Framing 7
Fuel 27
Fuel Conversion 20, 27

G

Gas Codes 3, 19, 20
Gas Line Connection 20
Gas Pressure 20
 Table 21
Gasket
 Glass Door 30
Glass
 Cleaning 30
 Door Gasket 30
 Removal 23

H

Heat Shield 15
High Altitude Installation 19

I

Input Rate 21
Interior Wall Shield 14
Intermittent Pilot Ignition
 Assembly 29
 Operation 27

J

Junction Box Wiring 22

L

Lava Rock 25
Lighting Instructions for Intermittent Pilot 26
Log Removal/Replacement 30
Logs
 Setting CNXT70E (36") 24
 Setting CNXT90E (42") 25

M

Mantel Height 7
Manual Shutoff Valve 20
Manufactured Home Construction 3
MI Sections 19
Minimum Installations Sections 19

N

Nomenclature 4
Noncombustible Finishing Material 23

O

Orifice Sizes
 Table 21

R

Ratings
 Table 21
Rear Vent Heat Shield 15
Replacing Glass 25
Rock Wool 24

S

Sealant Material 23
Seasonal Check List 27
Setting the Appliance 7
Setting the Logs
 CNXT70E (36") 24
 CNXT90E (42") 25
Slip Sections 19
Space Requirements 6

T

Temperature, High Sealant Material 23
Termination 15
 Horizontal 12
 Installation 18
 Vertical 16
 Vertical Clearances 16
Top and Rear Vent Clearances 16
Troubleshooting 28
Typical Installations 5

U

Utilities 19

V

Vent Lengths
 Maximum Horizontal 16
 Rear Vent 13, 17
 45° Elbow 13
 No Elbows 13
 Three Elbows 14
 Two Elbows 14
 Vertical Termination Only 17
 Top Vent 12, 16
 One Elbow 12
 Three Elbows 13
 Two Elbows 13
Vent Sections
 Assembling 18
 Attaching to appliance 18
 Disassembling 19
 Minimum Installation (MI) Sections 19
 Slip Sections 19
Vent Supports 16
Vent Termination 15
Venting Clearances
 Rear Vent 12
 Top Vent 12
Venting System Inspection 29
Venting Through the Wall 15
Vermiculite 25
Vinyl Soffit Shield 15

W

Wall Switch Wiring 22
Website 33
Wiring
 Dashboard Switch 22
 Junction Box 22
 Wall Switch 22
Wiring Intermittent Pilot Ignition 21

heatilator®

The first name in fireplaces

Hearth Technologies-Mt. Pleasant
1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
Division, HON INDUSTRIES
www.heatilator.com

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.
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.

©2001 Heatilator® is a Registered Trademark of Hearth Technologies Inc.