EuropeanHome

# Vista 38 ST

## Direct Vent See-through Gas Fireplace

## Installation, Operation and Maintenance Manual

**⚠ 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.*

**Safety Notice:**

Glass doors on gas fireplaces are extremely hot while the fireplace is on and remain hot even after the fireplace has been turned off. Safety screens are available and can reduce the risks of severe burns. Please keep children away from the fireplace at all times.

**For Your Safety:**

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**⚠ Warning:**

**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.*

- *Installer: Leave this manual with the appliance.*
- *Consumer: Keep this manual for future reference.*

**⚠ Warning:**

**Read this manual before installing, operating or troubleshooting this appliance. Please retain this owner's manual for future reference.**

## Thank You

**Thank you for selecting a European Home Gas Fireplace, an elegant and well-designed gas fireplace built with you in mind. The gas fireplace you have selected is designed to provide the utmost in safety and reliability.**

**As the owner of this new fireplace, you'll want to read and carefully follow all the instructions contained in this installation, operation and maintenance manual. Pay special attention to all cautions, warnings, and important notes.**

**This owner's manual should be retained for future reference. We suggest that you keep it with all your other important documents and product manuals.**

**The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.**

**Welcome to the European Home family of gas fireplace products. Your new European Home gas fireplace will give you years of durable, reliable use.**

### ⚠ *Safety Alert Key:*

- ***DANGER!*** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- ***WARNING!*** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- ***CAUTION!*** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- ***NOTICE:*** Used to address practices not related to personal injury.
- ***Important:*** *Used to address practices not related to personal injury.*

## *Table Of Contents*

# Introduction

## About this Fireplace

The **Vista 38 ST** is a gas fireplace with a linear burner, available in black painted or brushed stainless steel.

The **Vista 38 ST** is rated for 34,000 (maximum) BTU/Hr. (9.38) kilowatts input in natural gas (NG), and 33,000 (maximum) BTU/Hr. (9.28) kilowatts input in liquid propane (LP).

- **Vista 38 ST;** uses a millivolt pilot ignition system.
- **Vista 38 ST E;** uses an electronic ignition system.

This manual covers installation, operation and maintenance. Lighting, operation and care of this fireplace can be easily performed by the homeowner. However, all installation and service work should be performed by a qualified or licensed installer, plumber, or gas fitter who is qualified or licensed by the state, province, region, or governing body in which the appliance is being installed.

This manual covers all models and unless otherwise specified, the designation **Vista 38 ST** refers to all variations of the model above. Sections which are specific to a particular variation are marked with a ⬬ symbol, plus the appropriate model number.

## Warranty and Installation Information:

The European Home warranty will be voided by, and European Home disclaims any responsibility for the following actions:

- Modification of the fireplace and/or components including direct vent assembly or glass doors.
- Use of any component part not manufactured or approved by European Home in combination with this European Home fireplace system.
- Installation other than as instructed in this manual.

Consult your local Gas Inspection Branch on installation requirements for factory-built gas fireplaces. Installation and repairs should be done by a qualified contractor.

**Installations in Canada** must conform to the current **CAN/CGA B-149.1** and **.2** Gas Installation Code and local regulations. If the optional air-circulating fan kit is installed, it must be electrically grounded in accordance with **CSA C22.1** Canadian Electrical Code Part 1 and/or Local Codes.

**Installations in the USA** must conform to local codes, or in the absence of local codes to the National Fuel Gas Code, **ANSI Z223.1-1988**. If the optional air-circulating fan is installed, it must be grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, **ANSI/NFPA 70-1987.** See Appendix for installation within the **State of Massachusetts. T**his fireplace must comply with **NFPA-54 Chapter 10**.

**⚠ *WARNING!***

When this appliance is installed directly on carpeting, tile or any combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the appliance.

### *What is Combustible?*

Materials that can catch fire and burn are considered combustible. Any material that is made of, or faced with, wood, wood pulp, paper, plastic or any other material that can catch fire and burn is considered combustible. Even though these materials may have been 'flame-proofed', made 'fire-resistant' or are 'fire-rated' they are considered combustible.

The combustibility of a material can be tested per "ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C". Note that 'fire-resistant' does NOT mean non-combustible.

Note: If a certain material has a core considered to be non-combustible (in accordance with ASTM E136) but is faced with a combustible material then the material is considered to be combustible.

When in doubt, ask for an ASTM E136 compliance statement.

### *What is Non-combustible?*

A given material is said to be non-combustible when it cannot catch fire and burn. For example, materials made entirely, or in combinations, of, stone, brick, concrete, tile, steel, plaster or glass are considered non-combustible.

For the purposes of the installations described in this Manual, those materials that have passed the ASTM E136 tests are considered to be non-combustible.

As of this writing, the materials listed below are reported by their manufacturers to be non-combustible (in accordance with ASTM E136):

- James Hardie Building Products, Inc.:
  HardieBacker™ ¼" Cement Board
- U.S. Architectural Products, Inc.:
  Versaroc® Cement Bonded Particle Board
  Cem-Clad® Cement Panel

**⚠ CAUTION!**

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

- Children and adults should be alerted to the hazards of the high surface temperature, which could cause burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

# Installation

## Installing the Fireplace Shell

The fireplace may be installed in any location that maintains proper clearances to air conditioning ducts, electrical wiring and plumbing. Safety, as well as efficiency of operation, must be considered when selecting the fireplace location. Try to select a location that does not interfere with room traffic, has adequate ventilation, and offers an accessible pathway for the venting installation. Refer to page 4 - *Vent Installation* for more information.

The fireplace dimensions for **Vista 38 ST** models are shown below:

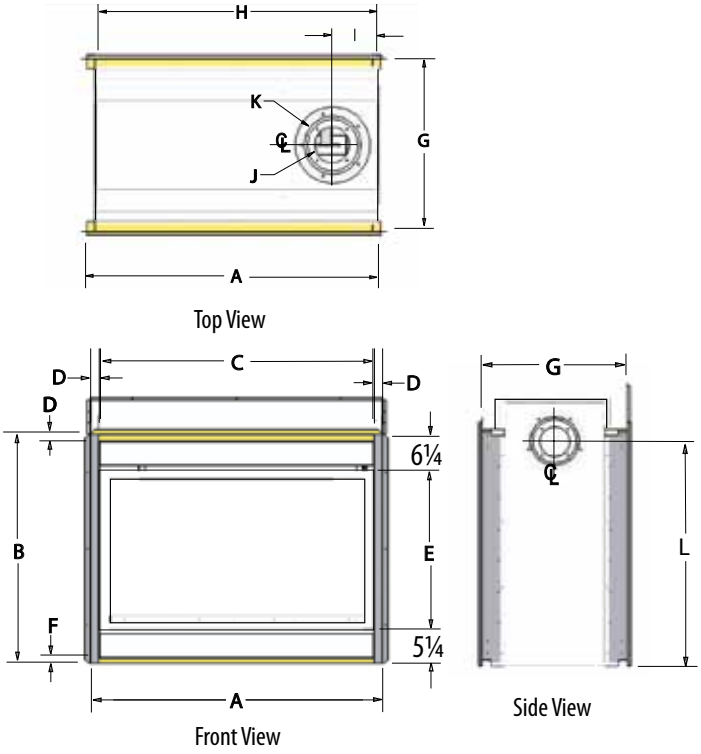



**Figure 1.** *Fireplace dimensions.*

| Vista 38 ST Fireplace Dimensions (inches) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J | K | L |
| 37¾ | 36½ | 35¼ | 1¼ | 25 | 1 | 24 | 36¼ | 7⅛ | 5 | 8 | 33½ |

### Clearances

The clearances to combustible materials are:

| ⚠ | Vista 38 ST |
|---|---|
| Top (top vented)* | 19" |
| Top (rear vented) | 10" |
| Fronts | 2" |
| Sides | 1" |
| Floor | 0" |
| Mantle** | 4" |

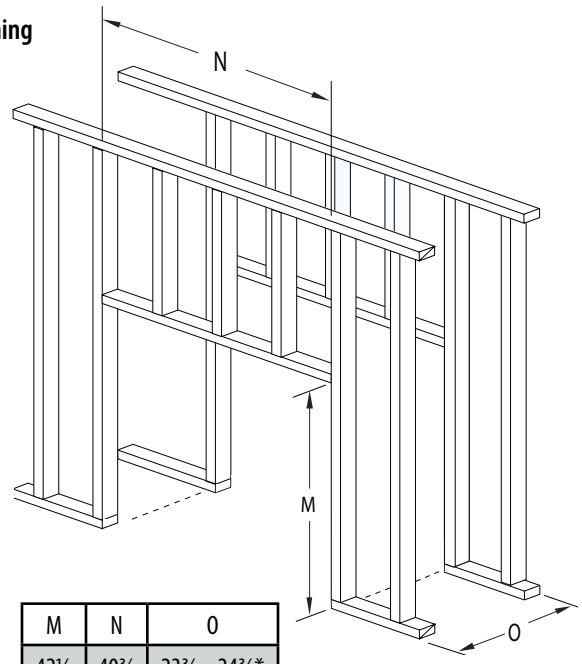
* Clearance from the top of the fireplace to a combustible ceiling within the fireplace enclosure.

** Refer to page 14.

(Minimum 1" clearance must still be maintained around the vent pipes, except on horizontal venting sections where the top of the pipe must have a clearance of 2")

For protection against freezing temperatures, it is recommended that outer walls of the chase be insulated with a vapor barrier. This will reduce the possibility of a cold air convection current on the fireplace.

### Framing




| M | N | O |
|---|---|---|
| 42½ | 40¾ | 23¾ or 24¾* |

* When facing with the Overlay Method the depth is increased by 1". See Planning Guide for more information.

**Figure 2.** *Framing dimensions.*

1.) Frame the fireplace cavity (thru-wall design) according to ***Figure 2***.
2.) Frame your installation, ***Figure 2a*** if the design incorporates a shelf over the fireplace.
3.) Once complete, slide the fireplace into the completed cavity.
4.) Next, tack four jack studs (vertical, "broken line") in place, ***Figure 2c.***
5.) Secure the fireplace in position by nailing/screwing the fireplace flange into these jack studs.

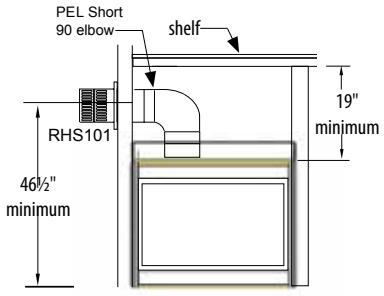



**Figure 2a.** *Framing dimensions. (top vent)*

**⚠ WARNING!**

When this appliance is installed directly on carpeting, tile or any combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the appliance.

# Installation

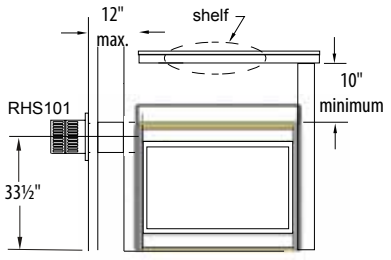



**Figure 2b.** *Framing dimensions. (rear vent)*

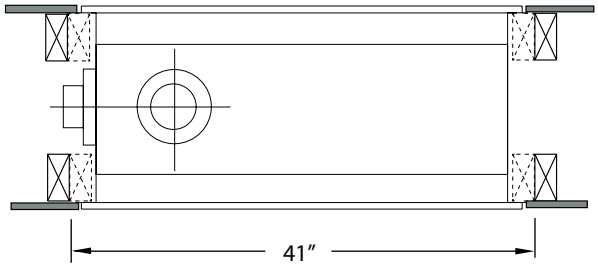



**Figure 2c**. *Back frame dimensions.*

## Installing The Gas Line

The gas line must be installed before finishing the **Vista 38 ST** fireplace. **Natural Gas** requires a minimum inlet gas supply pressure of 5.5" w.c. and a manifold pressure of 3.5" w.c. **Propane Gas** requires a minimum inlet gas supply pressure of 11" w.c. and a manifold pressure of 10" w.c. Provision must also be made for a ⅛" N.P.T. plugged tapping and be accessible for test gauge connection immediately upstream of the gas supply controls to the appliance. The fireplace gas connection and the main operating gas valve is located behind the removable trim at the bottom of the unit and need only be attached to the gas line with an approved fitting, as required by the **applicable installation codes**.

• Only use gas shut-off valves approved for use by the state, province, region, or governing body, in which the appliance is being installed, or as required by the applicable installation codes.

• Flexible gas connectors must not exceed 3 feet in length, unless it is allowable within applicable installation codes.

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.5 kPa).

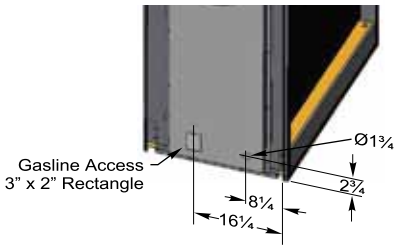



**Figure 3.** *Gas line access.*

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5 kPa).

**Note:** After the gas line is connected, ***each appliance connection, valve and valve train*** must be checked while under normal operating pressure with either a liquid solution, or leak detection device, to locate any source of leak. Tighten any areas where bubbling appears or leak is detected until bubbling stops completely or leak is no longer detected. **DO NOT use a flame of any kind to test for leaks.**

## Installing The Remote Switch

The **Vista 38 ST** gas valve, located behind the lower trim, is connected to a length of thermostat wire and is switched by a remote controlled receiver. Strip the wire insulation back ½" and connect the white and black wires to the receiver.

**Note:** The switch location must not exceed 30' from the fireplace.

## Vent Installation

This section covers the installation of direct venting and terminations.

### Installation Requirements

- **Vista 38 ST** Series fireplaces are certified for use with European Home Standard Series (5"/8") venting components.
- Minimum clearance to combustible construction around the vent pipe is 1" on all sides, except on horizontal venting where the top of the pipe must have a clearance of at least 2".
- Use only certified European Home vent components. Use of other parts will void the European Home warranty and may impede the operation of the fireplace.
- All joints must be secured with a minimum of two screws per joint.
- Vent terminations must not be recessed in walls or siding.
- Horizontal runs must be supported by a minimum of two supports per horizontal run. A minimum of one screw on each side of support is also required.
- Flex vent sections may be stretched up to 50% of their total length (e.g. a 24" section may be stretched to 36".)
- Venting components can be used in any combination of solid/rigid.
- Solid vent sections may be cut less than half way from the tapered end.
- Venting components can be used in any combination of solid/rigid pipe or flex pipe and in any orientation, i.e. male connectors can face in any direction.

# Installation

**CAUTION!**

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

Children and adults should be alerted to the hazards of the high surface temperature, which could cause burns or clothing ignition.

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

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

**CAUTION:**

Do not obstruct, or attempt to conceal, the vent termination. These actions will affect the operation of the fireplace, and may be hazardous.

In heavy snow areas, take extra care to prevent snow buildup from obstructing the vent termination.

**Caution:**

Vent terminations can be very hot. If the termination is less than 7 feet above a public walkway, it should be fitted with a certified European Home Heat Guard. (Part no. PTK0G).

Do not obstruct, or attempt to conceal the vent termination. These actions will affect the operation of the fireplace, and may be hazardous.

In heavy snow areas, take extra care to prevent snow buildup from obstructing the vent termination.

Use European Home Vinyl Heat Shield (Part no. VSS) when using on applications with vinyl siding to guard against possible damage.

### Installing Terminations with Built-In Frames

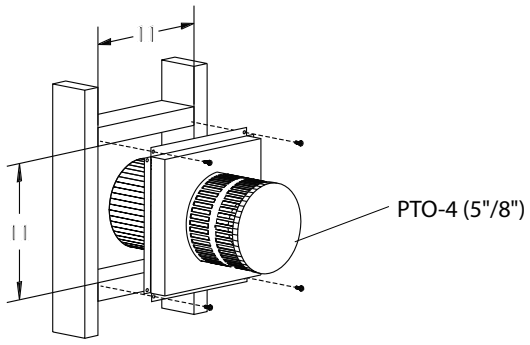



**Figure 4a.** *Installing a PTO termination.*

1. Frame the termination opening to 11" x 11".
2. Fasten the termination to the studs using a minimum of 4 screws.

### Installing Terminations with MSR Frames

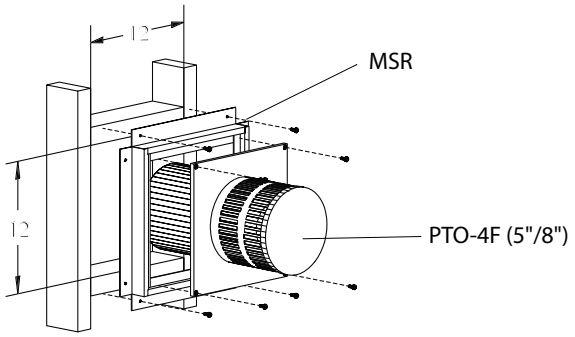



**Figure 4b.** *Installing a PTO termination with the MSR frame.*

1. Frame the termination opening to 12" x 12".
2. Fasten the termination to the studs using a minimum of 4 screws.

### Installing Terminations with MOSR Frames

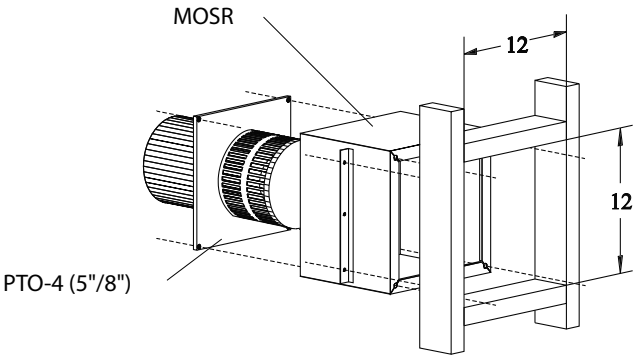



**Figure 4c.** *Installing a PTO termination with the MOSR frame.*

1. Frame the termination opening to 12" x 12".
2. Fasten the MOSR frame to the interior side of the studs using a minimum of 4 screws.
3. Insert the termination into the MOSR frame as shown here, and attach by screwing through the four pilot holes in the termination.

### Installing Heat Guards over Terminations

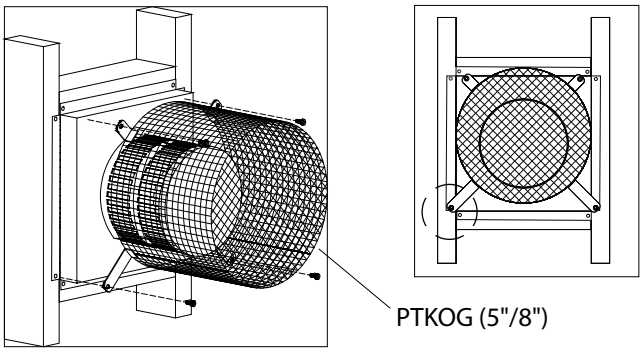



**Figure 4d.** *Installing a PTO termination heat guard.*

# Installation

1. Ensure that the two ***long*** mounting brackets are facing the bottom of the termination. (See inset). This will provide more heat protection at the top of the termination, where temperatures are highest.
2. Attach to the faceplate of the termination using four sheet metal screws.

### Installing Heat Shield for Vinyl Siding

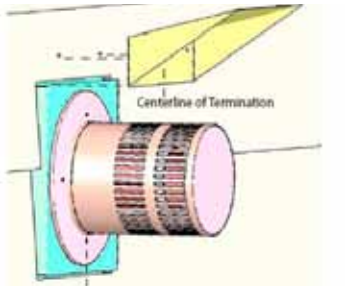



**Figure 5.** *Installing the VSS Vinyl Shield heat guard.*

## Installing The Standoffs

To avoid elevated mantel temperatures, all **Vista 38 ST** Series gas fireplaces are required to have the supplied standoffs installed.
The fireplace is supplied with two standoffs. Bend and install these standoffs on top of the fireplace ensuring that the height of the standoff maintains a 6" clearance.

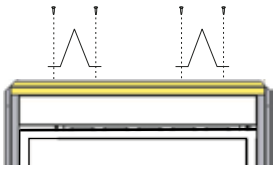


**Figure 6.** *Installing the standoffs.*

## Installing the Nailing Flange Extension

Once the fireplace is placed into the framed opening, the supplied nailing extension must placed along the top edge of the fireplace, and nailed in place to the framing, as illustrated below. The supplied nailing extension must be placed along the top edge of the fireplace and securely fastened in place to the lintel and combustible wood framing.

**Note:** The nailing flange extension can be substituted with a piece of **NON-COMBUSTIBLE** material of the same size and thermal characteristics, i.e.; cement board or equivalent.

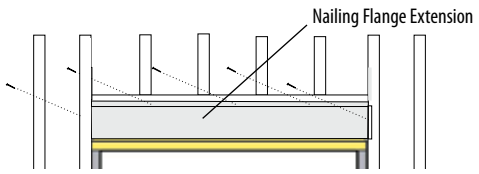



**Figure 7.** *Installing the nailing flange extension.*

## Converting the Vista 38 ST from Top Vent to Side Vent

### Top Vent

Use the following instructions to convert a ***Vista 38 ST*** for top vent or side vent use.

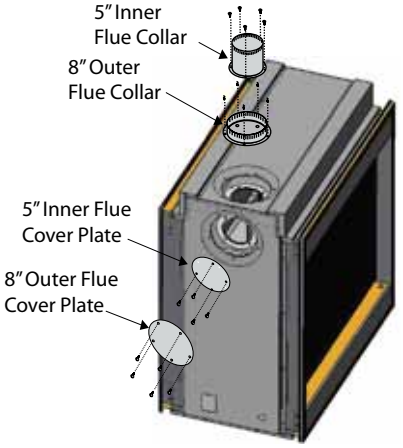



**Figure 8.** *Installing the top vent/side flue covers.*

### Top Vent

1. Install the 5" inner flue collar on the top flue outlet and secure the cap in place with four (4) screws, as shown in ***Figure 8***.
2. Install the 8" outer flue collar on the top flue outlet, and secure it with five (5) screws, as shown in ***Figure 8***.
3. Install the flue gasket material and flue cover plate on the side vent outlet . Fasten the cover plate(s) with four (4) and five (5) screws, as illustrated.

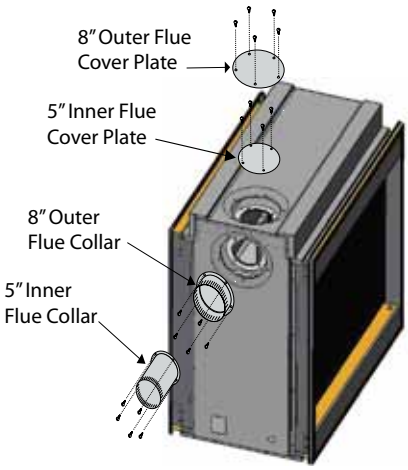



**Figure 8a.** *Installing the side vent/top flue covers.*

### Side Vent

1. Install the 5" inner flue collar on the side flue outlet and secure the cap in place with four (4) screws, as shown in ***Figure 8a***.
2. Install the 8" outer flue collar on the side flue outlet, and secure it with five (5) screws, as shown in ***Figure 8a***.
3. Install the flue gasket material and flue cover plate on the top vent outlet. Fasten the plate with four (4) screws, and five (5) crews as illustrated.
4. Install the 4" or 5" inner flue collar and the 7" or 8" outer flue collar in place on the side vent outlet using five (5) screws, as illustrated below.

# Installation

## Top Vent Venting Requirements

Before you install any venting, you must determine whether the venting run will be acceptable. Unacceptable venting can affect the fireplace's combustion.

- for installations with horizontal venting runs of 0-16 feet, use the vent graph, as described below
- the maximum horizontal vent run is 16 feet.

Measure the vertical height from the fireplace hearth to the center of the termination and the horizontal run from the from the fireplace flue collar to the wall flange of the termination. Plot on the venting graph, ***Figure 9*** with an 'X'.

If the 'X' falls on or above the top boundary of the shaded area, the installation is acceptable.

**Example A: (Acceptable Installation)**

If the vertical dimension from the hearth is 112", and the horizontal run to the wall flange of the vent termination is 150", the installation is acceptable.

**Example B: (Unacceptable Installation)**

If the vertical dimension from the hearth is 48" and the horizontal run to the wall flange of the vent termination is 72", **the installation is NOT ALLOWED.**

**Example C: (Unacceptable Installation)**

If the vertical dimension from the floor of the fireplace is 60" and the horizontal run to the wall flange of the vent termination is 144", **the installation is NOT ALLOWED.**

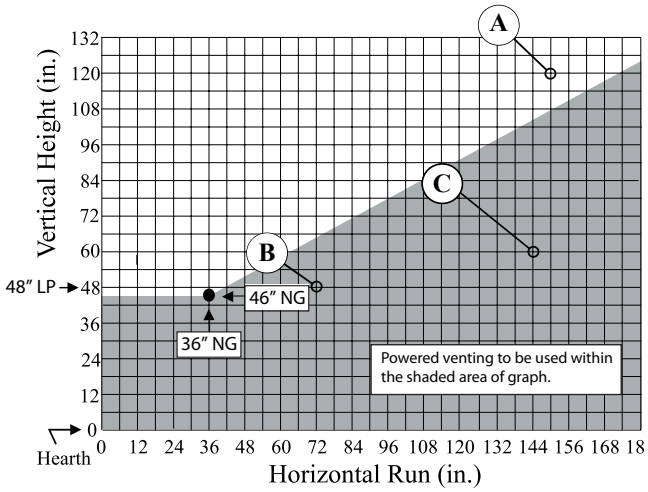



**Figure 9.** *Top Vent Venting Graph.*

## Installation Of Top Venting

The following components are available for through-the-roof venting:

| | |
|---|---|
| A - Termination | PVTK-1 |
| B - Flex Sections | PFL-1 (12" section)<br>PFL-2 (24" section)<br>PFL-3 (36" section)<br>PFL-4 (48" section) |
| C - Rigid Sections | PEXT-1 (12" m/f section)<br>PEXT-2 (24" m/f section)<br>PEXT-3 (36" m/f section)<br>PEXT-4 (48" m/f section) |
| D - Support Ring and Plate | PSPXT-8 |
| E - Firestop | PS-8 |
| F - Roof Flashing | FRF-8 (flat roof)<br>PRF-7 (1/12 - 7/12 pt.)<br>PRF-12 (7/12 - 12/12 pt.) |
| G - Adaptor/Vent Reducer | PVA5487 (5"/8" to 4"/7") |

**Example:**

A 10' section and an elbow used in conjunction with 3 ft. flex section (PFL-3) will, when extended in a five foot chase, allow for a maximum horizontal run of twelve and one-half feet from the center of the fireplace to outside wall and a minimum of 7'6" when retracted in opposite direction. *See **Figure 11 and 12**.*

"D" flex sections and "E" solid sections may be used in conjunction with one another in various possible horizontal vent installations. **NOTE: Flex section must not exceed maximum horizontal length of 3 feet.** *See **Figure 13**.*

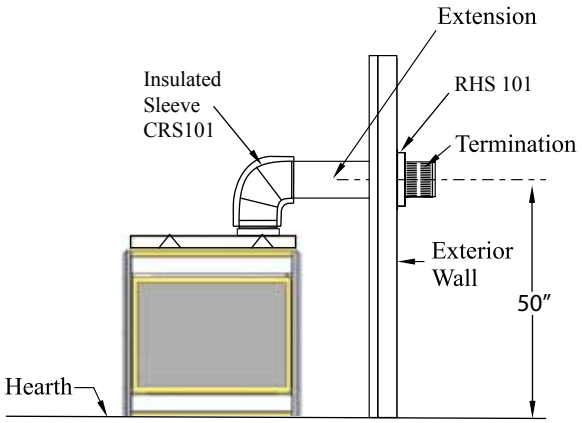



**Figure 10.** *Short horizontal installation.*

**WARNING:**

*Ensure RHS vent heat shields have a* **minimum 1"** *clearance on bottom and sides from framing. Top must have* **minimum 2"** *clearance as shown.*

# Installation

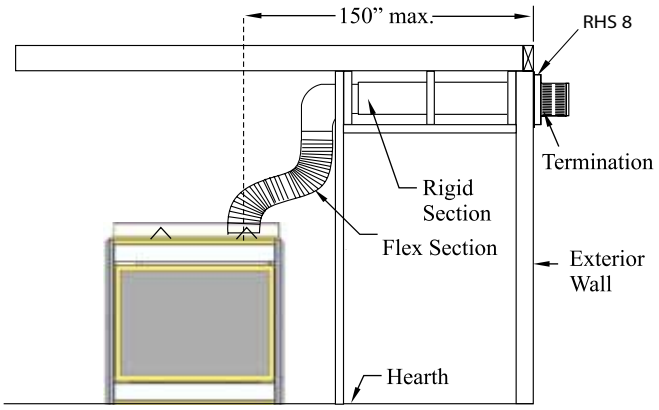



**Figure 11.** *Extended installation.*

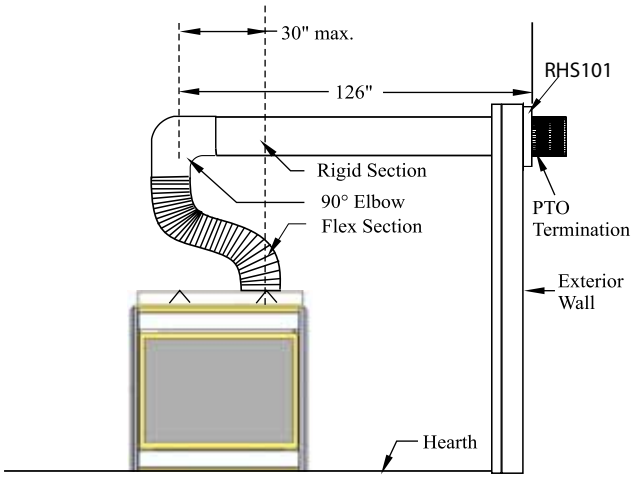



**Figure 12.** *Retracted Installation.*

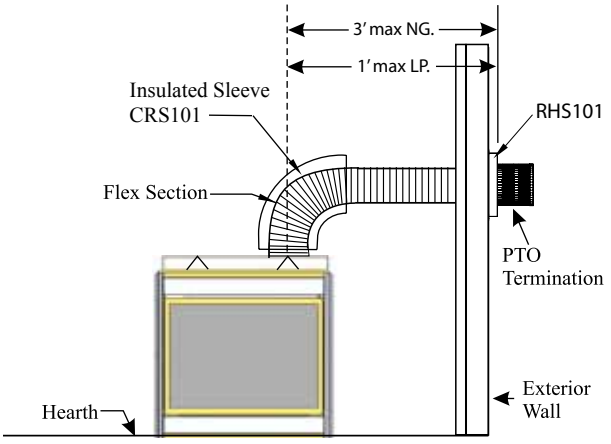



**Figure 13.** *Horizontal flex installation.*

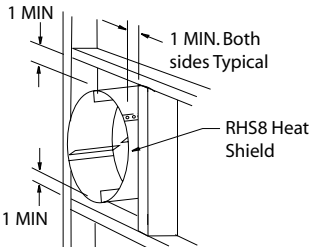



**Figure 14.** *RHS8 heat shield installed by sliding over the vent pipe where it passes through combustible construction.*

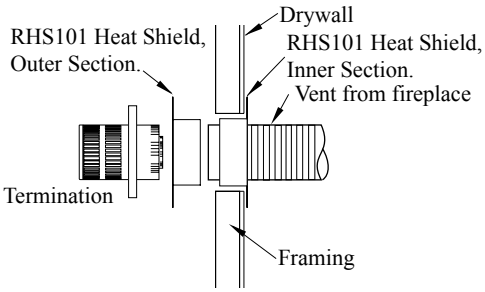



**Figure 15.** *RHS101 installed by sliding over vent pipe where it passes through the combustible construction.*

## B: Vertical (through-the-roof) Installation

- Vertical terminations must be installed:
  - minimum 2' (two feet) above the highest point where vent passes through the roof.
  - minimum 6' (six feet) from a mechanical air inlet
  - minimum 18" (1½ feet) from a parapet wall.
- Maximum vent height is 30 feet above fireplace.
  Note: Flame characteristics will change if the maximum vent height is used.
- Minimum **clearance to combustible construction around the vent pipe is 1"** on all sides except on horizontal venting where the **top** of the pipe must have a clearance of at least 2".

# Installation

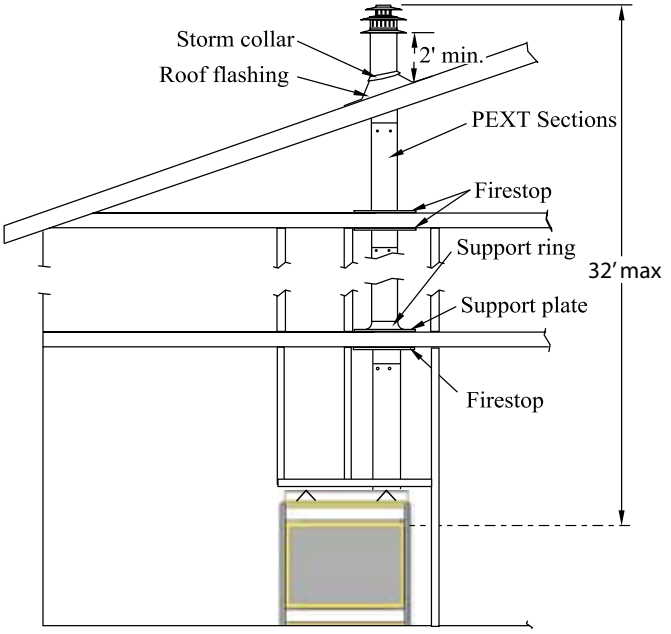



**Figure 16.** *Straight, vertical venting.*

- A maximum of two offsets **(each offset has two 90° bends)** may be made if the length of the offsets does not exceed 25% of the vertical vent height, when measured center to center of piping.

  Using this vent installation example:
  - 30' vertical vent
  - 2 - 2' offsets required

  Maximum offset allowed = 25% of 30'or 7½'.

This venting configuration meets requirements.

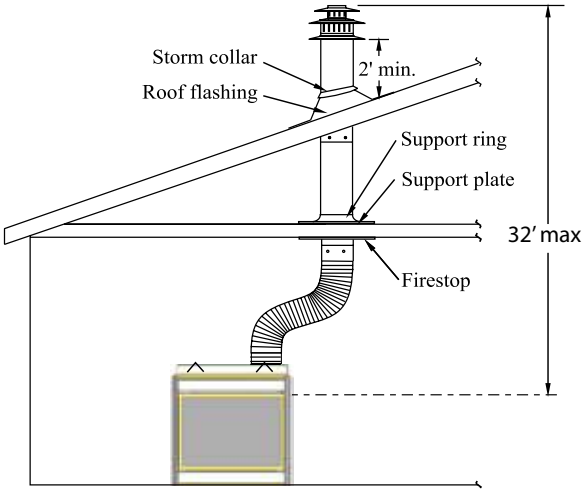



**Figure 17.** *Vertical venting using 1 offset (1 offset= two* 90° bends)

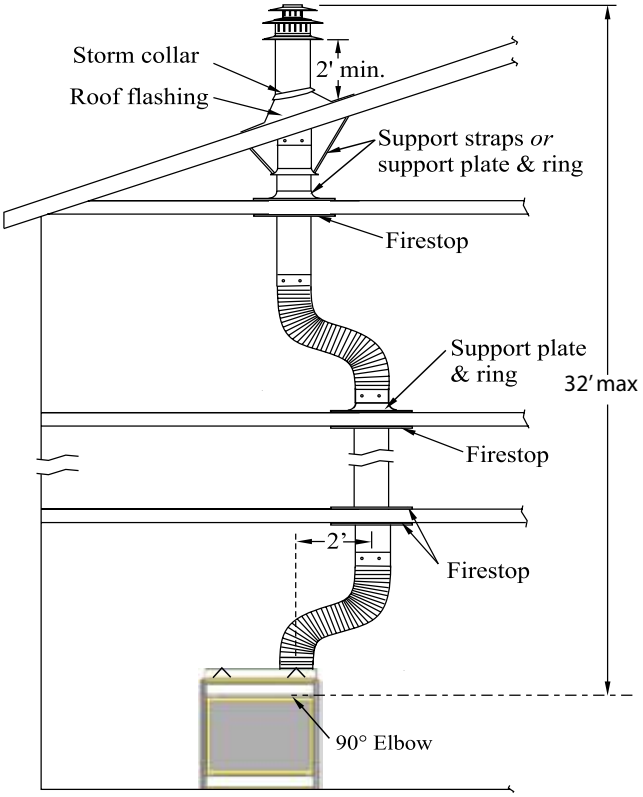



**Figure 18.** *Vertical venting using 2 offsets (1 offset= two* 90° bends).

# Installation

## Side Vent Venting Requirements

If your installation requires more than 12" of horizontal venting, some vertical lift is required. Use the vent graph below to determine an acceptable vent run. Unacceptable venting can affect the fireplace's performance.

- the maximum horizontal vent run is 14 feet

### The Venting Graph

Measure the vertical height from the fireplace hearth to the center of the termination and the horizontal run from the from the fireplace flue collar to the wall flange of the termination. Plot on the Venting Graph ***Figure 19*** with an 'X'.

If the 'X' falls on or above the top boundary of the shaded area, the installation is acceptable.

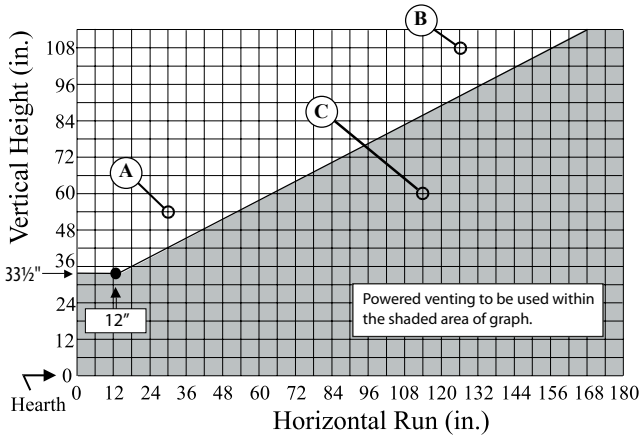



**Figure 19.** ***Vista 38 ST*** *Side Vent Venting Graph*

**Example A: (Acceptable Installation)**

If the vertical dimension from the hearth is 54", and the horizontal run to the wall flange of the vent termination is 32", the installation is acceptable.

**Example B: (Acceptable Installation)**

If the vertical dimension from the hearth is 108" and the horizontal run to the wall flange of the vent termination is 130", the installation is acceptable.

**Example C: (Unacceptable Installation)**

If the vertical dimension from the floor of the fireplace is 60" and the horizontal run to the wall flange of the vent termination is 114", **the installation is NOT ALLOWED.**

## Horizontal Vent Installation

Vent systems that terminate through a wall may be comprised of up to seven different components:

| | |
|---|---|
| A - Termination | PTO-4 (4" Length)<br>PTO-4F (4" Length) |
| B - Termination Frames | MSR (Stucco Frame)<br>MOSR (Stucco Can)<br>BSR ( Brick Can) |
| C - Flex Sections | PFL-1 (12" Section)<br>PFL-2 (24" Section)<br>PFL-3 (36" Section)<br>PFL-4 (48" Section) |
| D - Rigid Sections | PEXT-1 (12" m/f Section)<br>PEXT-2 (24" m/f Section)<br>PEXT-3 (36" m/f Section)<br>PEXT-4 (48" m/f Section) |
| E - Extensions | PXT-5 (5" Section)<br>PXT-10 (10" Section) |
| F - Elbows | PEL-90MM (m/m 90° Elbow)<br>PEL-90FF (f/f 90° Elbow)<br>PEL-90FM (f/m 90° Elbow) |
| H - Heat Shield | RHS101 |

**Short Configurations:**

For installations straight through the wall, use an PTO-4/-4F termination and PXT-5 or PXT-10 to achieve the desired length. The maximum horizontal vent run with no vertical lift is 12". See ***Figure 20***.

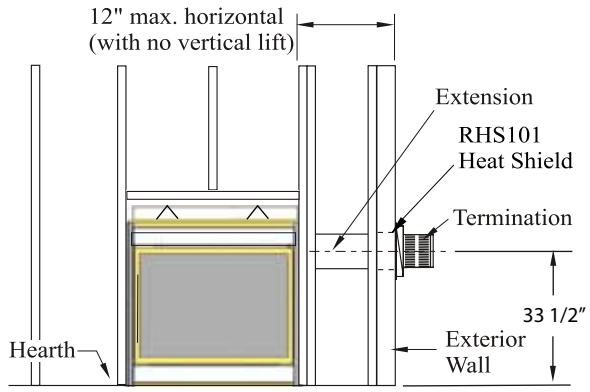



**Figure 20.** *Short horizontal installation.*

# Installation

### Heat Shields

Due to high flue temperatures, the heat shield (RHS101) must be used on **all installations straight through the wall**, at the point where the vent pipe connects to the termination. With the heat shield, vent clearances can be maintained at 1". The heat shield is not included with the fireplace.

To install the heat shield, slide one section over the vent pipe on the inside of the wall opening, with the circular portion *inside the wall cavity*. Screw the shield in place over the wall opening. Install the second section on the outside of the wall opening sliding the circular portion into the wall opening. Refer to ***Figure 21***.

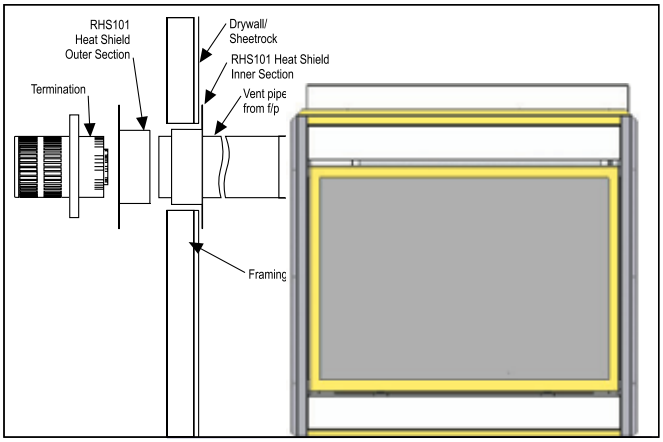



**Figure 21.** *Heat shield for short horizontal installation. Install by sliding over the vent pipe where it connects to the termination.*

**Long Vent Runs:**

For longer or more complex vent runs, vertical lift is required. First ensure that the planned run is acceptable using the Vent Graph. Plan out the required components using the charts on pages 8 and 11.

**Example:**

A 10' section of rigid pipe and a 90° elbow may be used in conjunction with a 3 ft. flex section (PFL-3) will, when extended in a chase, allow for a maximum horizontal run of 12'6" from the center of the fireplace to outside wall and a minimum of 7'6" when retracted in opposite direction. *See **Figure 22**.*

"D" flex sections and "E" solid sections may be used in conjunction with one another to obtain different possible horizontal length installations. **NOTE:** Flex section must not exceed maximum horizontal length of 3 feet and for this application the top clearance is to the ceiling.

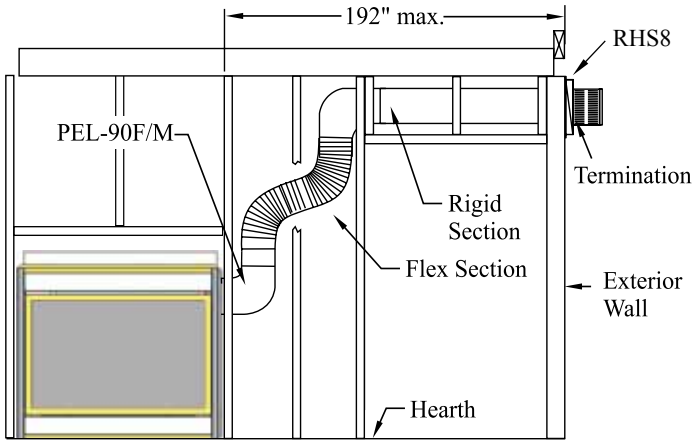



**Figure 22**. *Extended horizontal installation using a combination of rigid and flex venting.*

## Vertical Vent Installations

- Maximum vent height is 30 feet above fireplace.
  Note: Flame characteristics will change if the maximum vent height is used.
- Minimum **clearance to combustible construction around the vent pipe is 1"** on all sides must be maintained, except on horizontal venting where the **top** of the pipe must have a clearance of at least 2".

### 1. Straight Vertical Installation

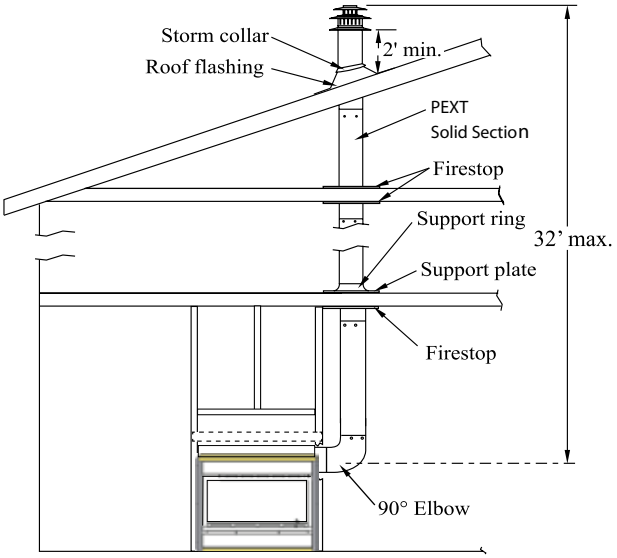



**Figure 23**. *Straight, vertical venting.*

### 2. Offset Vertical Installations

- A maximum of two offsets **(each offset has two 90° bends)** may be made if the length of the offsets does not exceed 25% of the vertical vent height, when measured center to center of piping.

  Using this vent installation example:
  - 30' vertical vent
  - 2 - 2' offsets required

  Maximum offset allowed = 25% of 30'or 7½'.

This venting configuration meets requirements.

# Installation

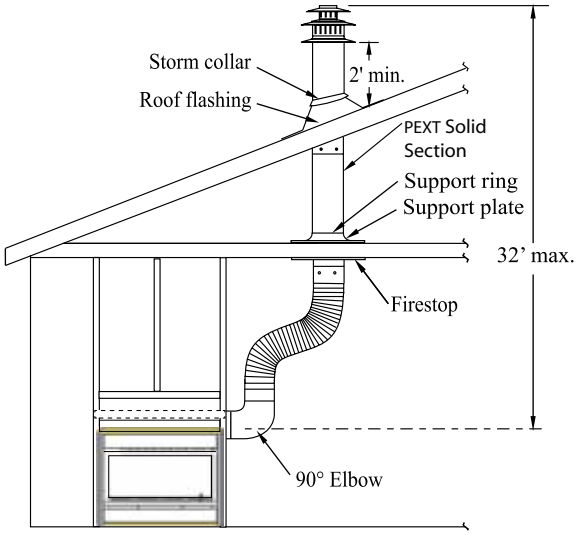



**Figure 24.** *Vertical venting with 1 offset (1 offset= two 90° bends).*

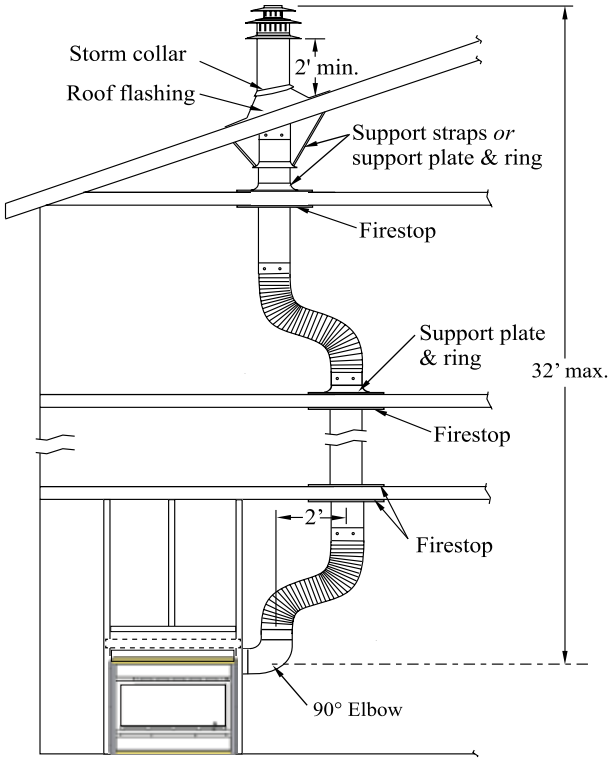



**Figure 25.** *Vertical venting with 2 offsets (1 offset= two 90° bends).*

## Reduced Vertical Installation

### (Available with Linear LDVPV47 Power Vent ONLY)

It is possible to reduce vertical vent runs from 5"/8" venting to 4"/7" venting. Reduced vertical venting may only be used when the linear power vent is required. This is commonly due to longer than normal vent runs or unusually long horizontal vent runs.

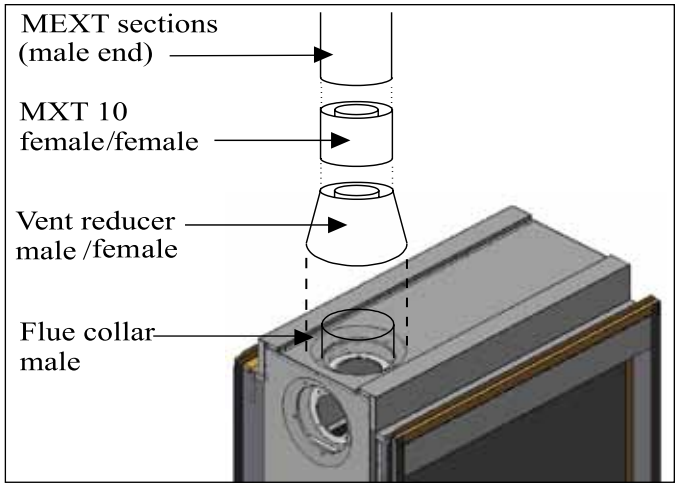



**Figure 26.** *Reduced vertical venting application from 5"/8" to 4"/7".*

## The Horizontal and Vertical Power Vent

A power vent is required where the Termination is located too far away from the gas fireplace and/or *if the vent run is beyond the scope of this document, or the specifications recommend vent augmentation. There are four 5"/8" power vent models available. These power vents offer superior venting, safe operation and years of trouble free operation.*

The available European Home Power Vent models are:

LDVPV47/58 - linear, interior in-line power vent

EDVPV47/58 - external power vent module

EDVRSPV47/58 - exterior *vertical* roof mount stainless steel power vent system

EDVWSPV47/58 - exterior *horizontal* wall mount stainless steel power vent system

# Installation

## Finishing Around the Fireplace

Combustible mantels and moldings may be safely installed over the top and on the front of the fireplace provided that they do not project beyond shaded area shown in ***Figure 27***. Side wall clearances are 0". Combustible surrounds may be installed with 0" clearance to the side of the fireplace as shown in ***Figure 27***.

### Fireplace Facing

When selecting the finish material for your fireplace, it is important to remember the following: **THE OPENING MUST NOT BE OBSTRUCTED IN ANY WAY - to do so restricts the air supply for the control compartments and heat exchanger. It also prevents access for servicing controls.**

The face of the fireplace may be painted to match the room decor provided you use a heat-resistant paint. Decorative facing must not extend past the fireplace opening at all, because it will interfere with the access to retainers for removal of glass door. ***When using a tile facing, you must NOT tile over the outside frame of the fireplace, as this will obstruct the door removal.*** See ***Figure 27***.

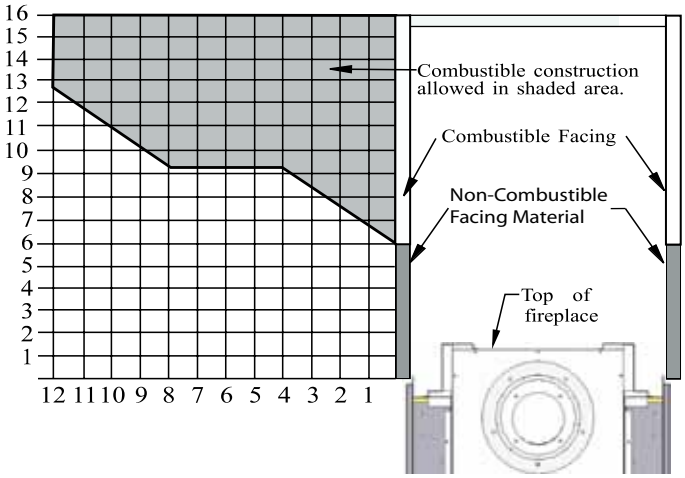



**Figure 27** *Combustible mantles and facings.*

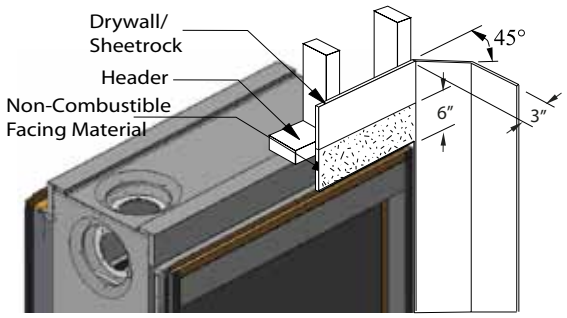



**Figure 28.** *Combustible facings materials. (both sides typical)*

### Mantels and Surrounds

**NOTE:** Mantel clearances are for the prevention of fire hazards.

New technology, to meet consumer and government demands for the wise use of energy, has prompted us to manufacture many models of fireplaces which are hot, fuel and energy efficient.

Please be aware; temperatures over the mantel will rise above normal room temperature and walls above fireplace may be hot to touch.

We recommend careful consideration be given to the effects of elevated mantel temperatures which may be in excess of product design, for example: candles, plastic or pictures. This can cause melting, deformation, discoloration or premature failure of T.V. and radio components.

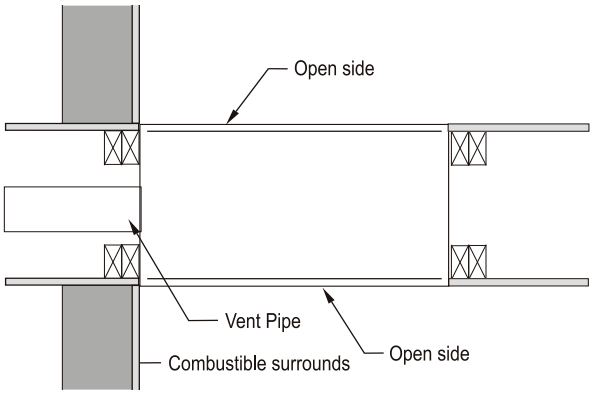



**Figure 29.** *Combustible surrounds. (top view)*

# Installation

## Wiring

### Gas Control and Pilot Wiring

Vista 38 ST

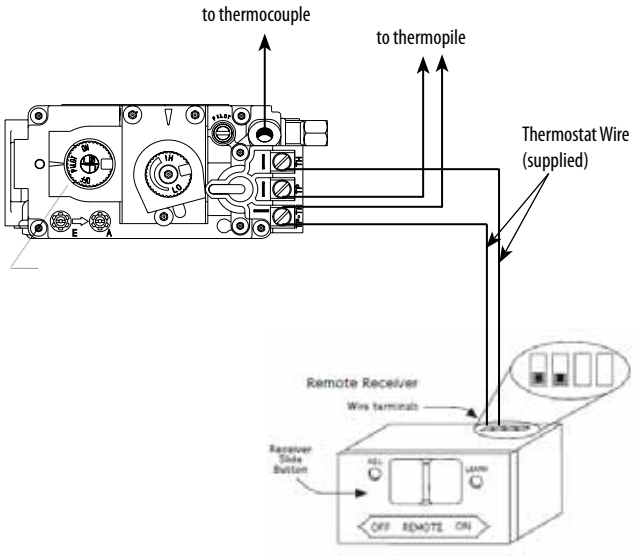



**Figure 31.** *Wiring the **Vista 38 ST** remote receiver.*

**WARNING!**

We recommend careful consideration be given to the effects of elevated mantel temperatures which may be in excess of product design, for example: candles, plastic or pictures. This can cause melting, deformation, discoloration or premature failure of T.V. and radio components.

### Wiring for the *optional* Fan Kit

Vista 38 ST

The **Vista 38 ST** fireplace may be equipped with optional fan kits for circulating heat into the living space.

**Installations in Canada** which employ the fans must be electrically grounded in accordance with **CSA C22.1** Canadian Electrical Code Part 1 and/or Local Codes.

**Installations in the USA** which employ the fans must be grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, **ANSI/NFPA 70-1987.**

For more information see the **Fan Kit Installation Guide** included with the fan kit.

**NOTE:** If any of the original wire supplied with the appliance is replaced, it must be replaced with the same type, or its equivalent.

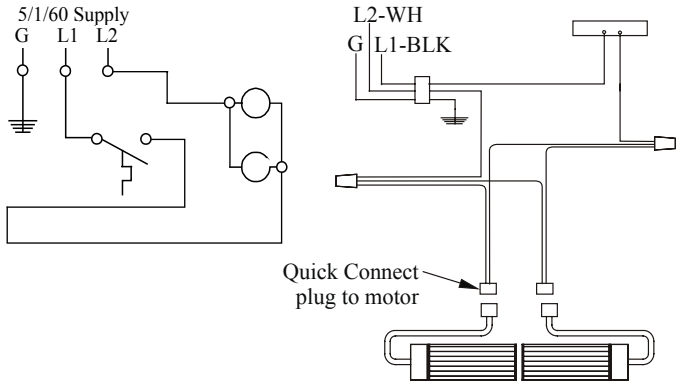



**Figure 32.** *Wiring schematic for optional fans.*

**WARNING!**

Do not attempt to clean glass when hot.

Do not clean glass with abrasive materials as any glass etching may cause premature glass failure.

Do not operate this fireplace without the glass door, or with a broken glass door.

# Installation

## Removing and Installing the Doors

The **Vista 38 ST** doors are removed in a few simple steps. Follow the steps below to remove the horizontal access panel, unlatch the door buckles and remove the door. Replace in reverse order.

### *Step 1:* Remove the Horizontal Access Panel

Remove the horizontal cover by placing fingers in both finger holes then pushing away from you and lifting out. Place it aside during maintenance or cleaning.
Install in reverse order.


**Figure 34.** *Removing and installing the horizontal access panel*

### *Step 2:* Locate the Door Buckles

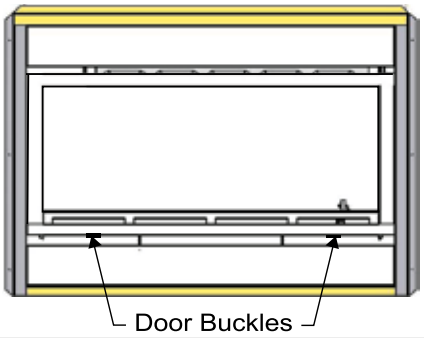



**Figure 34a.** *Locate the door buckles. (both sides typical)*

### Release the Door Buckles


**Figure 34b.** *Door buckle tool*

### *Step 4:*

Firmly grasp handhold end of door buckle tool and place the machined end in the slot under door frame, as shown.

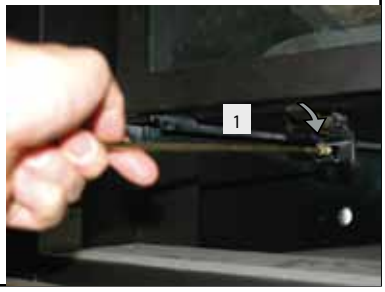



**Figure 34c.**

### *Step 5:*

Ensure the tool is firmly in the lower end of the slot, as shown. Then pull toward you.

Caution: Hold the tool securely.

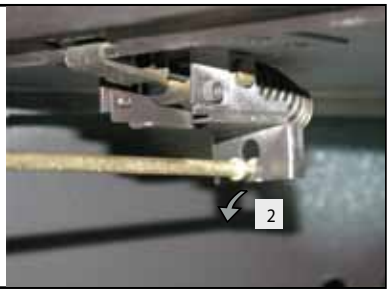



**Figure 34d.**

### *Step 6:*

Pull hard if necessary to release the spring tension.
**Caution: The latch springs back with force. Hold the tool securely.**

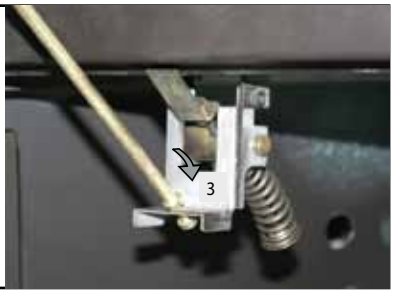



**Figure 34e.**

### *Step 7:*

Remove the tool from the latch slot. Ensure the latches are hanging freely and the hook end is released from the bottom of the door. Repeat all four steps for the remaining latches.


**Figure 34f.**

### *Step 8:* Removing a Door

Grasp the door on either side, usually midway, and lift the door carefully up and away from the front of the fireplace. *See **Figure 34g**. Place the door aside in a safe place while maintenance and/or cleaning is being performed.*

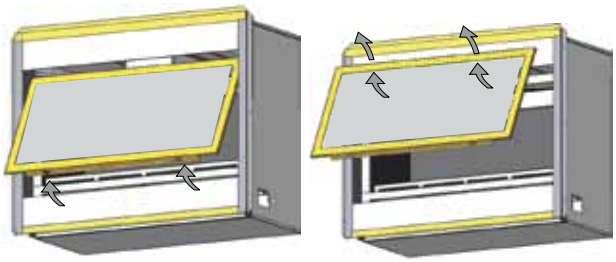


**Figure 34g.** *Removing and installing the glass doors. (both sides typical)*

### Installing the Doors

To install the doors, hook the top edge of the door frame into place. Lower the door into position and follow the previous steps shown in reverse order. Install the second door as described above.

# Installation

## Installing the Glass Beads and Optional Fire Media

The **Vista 38 ST** fireplace is supplied with glass beads. Optional stone and drift-wood fire media are available.

Remove the door and trim as shown previously. Follow these instructions to ensure all parts are removed or replaced as required. Once the trim and glass doors are removed place the glass beads **AROUND** the burner. The glass beads may be placed on the mesh pilot flame cover but ***neither the glass beads nor the fire media may be placed on the burner itself*** (see ***Figure 35***, below.)

**Figure 35.** *Installation with glass beads .*

Vista 38 ST

# Operation - Model Vista 38 ST

*with Continuous Pilot*

## For Your Safety - READ BEFORE LIGHTING:

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

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

**B.** **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

**What To Do If You Smell Gas:**

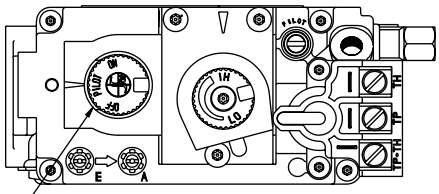
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

**C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.

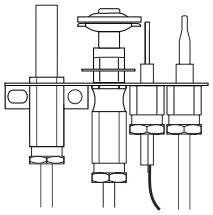
**D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system, and any gas control which has been under water.

## Lighting Instructions:

1. **STOP!** Read the safety information above on this label.
2. Lift out the lower horizontal access panel.
3. Push in gas control knob and turn clockwise to "OFF."
4. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Locate pilot burner *(See illustration at right.)* and follow steps below.
6. Turn knob on gas control counter clockwise to "PILOT."
7. Push in gas control knob completely and hold. Light with piezo igniter button. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release the knob and it will pop back up. Pilot should remain lit. If it goes out repeat steps 3 through 8.
   - If knob does not pop up when released. Stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
8. Push in gas control knob and turn counter-clockwise to "ON."
9. Replace the lower Horizontal access panel.
10. Turn on remote switch to ignite fire.




Gas Control Knob
(Shown in "Pilot" postion.)



**NOTE:** Gas control knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

## To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Lift out the lower horizontal access panel.
3. Push in gas control knob slightly and turn clockwise to "Off". Do not force.
4. Replace the lower horizontal access panel.

# Operation - Model Vista 38 ST E

Vista 38 ST E

Vista 38 ST E

## with Proflame SIT Electronic Ignition

## For Your Safety - READ BEFORE LIGHTING:

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

A. This appliance is equipped with an ignition system that lights the pilot burner automatically. Do not attempt 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:

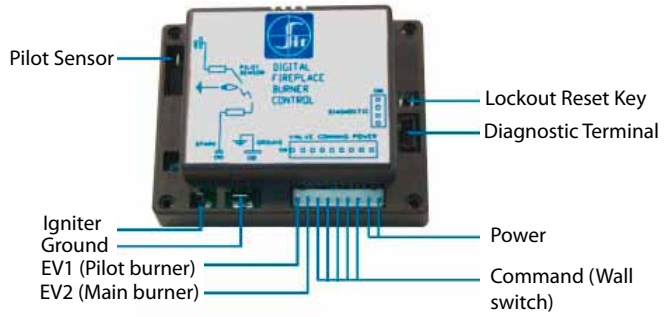
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

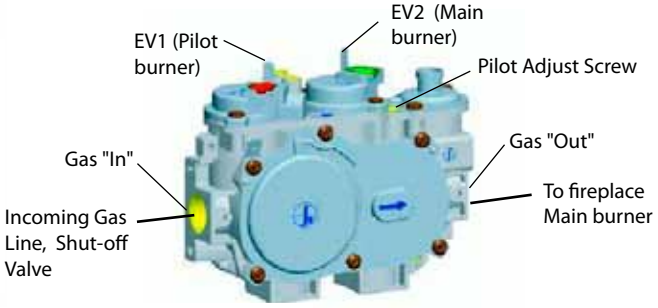
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.

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. Remove the lower horizontal access panel.
3. Turn Incoming gas valve to the ON" position.
4. Wait 5 minutes to clear out any gas. 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.
5. Turn wall switch "ON".
6. If the fireplace does not light, the system will cycle through two trials, (one minute audible clicking, thirty seconds of silence, and then another one minute of audible clicking). If the system locks out due to inadequate gas flow, refer to "Troubleshooting", Page 20.
7. After completion of the information in the Troubleshooting section, Repeat step 5.
8. If the system will not function correctly, 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 remote switch.
2. Remove the lower horizontal access panel.
3. Turn the incoming gas control valve to "Off".
4. Replace the lower horizontal access panel.

# Operation

## Lighting Instructions

See pages 18 to 19.

## Burner Adjustment

The **Vista 38 ST** is equipped with an adjustable burner, allowing you to raise or lower the flames. To adjust the flames, locate the black knob marked 'Hi-Lo', in the center of the gas control valve See ***Figure 42***. The front burners are not adjustable.

- To raise the flame height, turn the black knob (located behind the lower trim) **counterclockwise**.
- To lower the flame height, turn **clockwise**.

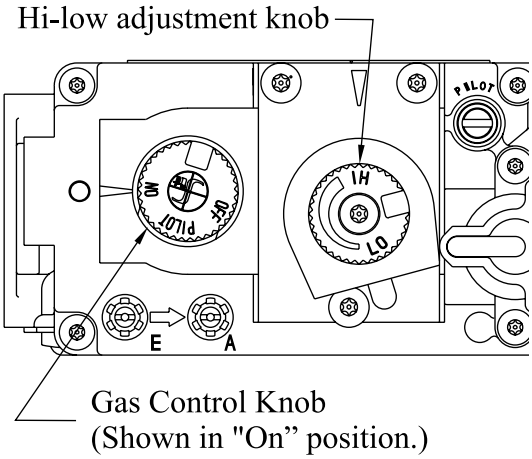



**Figure 42.** *Hi-Lo adjustment on the **Vista 38 ST** gas valve.*

# Maintenance

## General

- **Have the fireplace and installation inspected yearly**. The inspection must include, but is not limited to, the following:
  - A visual check of the entire vent system and termination.
  - An inspection of the explosion relief flappers and the door gasketing to ensure a proper seal.
  - An inspection of the burner, venturi, and primary air openings.
  - An inspection of the gas valve, gas components, and pilot flame. For your convenience a ⅛" manifold pressure tap is supplied on the gas valve for a test gauge connection. See Figure 44.
  - Ensure proper media placement as per this manual.
  - Inspection of all optional equipment; fans, thermostats, etc.
- For **natural gas** this appliance requires a minimum inlet pressure of 5.5" w.c. and a manifold pressure of 3.5" w.c.
- For **propane (L.P.) gas** this appliance requires a minimum inlet pressure of 11" w.c. and a manifold pressure of 10" w.c.
- Always keep the fireplace area clear and free of combustible materials, as well as gasoline and other flammable vapors and liquids.
- 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.

## Cleaning

When the fireplace is first activated, there may be some smoking and a visible film may be left on the glass. This is a normal condition, and is the result of burning of protective coatings on new metal.

- Glass must be cleaned periodically to remove any film (which is a normal by-product of combustion) which may be visible. Film can easily be removed by removing the door, as shown on page 16. Handle the door carefully, and clean it with non-abrasive glass cleaners.
- Silicone seals on inner door during initial firing will "off gas", leaving a visual deposit of a white substance on combustion chamber walls. This can easily be removed using normal household products.
- Use a vacuum cleaner or whisk broom to keep the control compartment, burner, and firebox free from dust and lint.
- Stones may be cleaned periodically with a vacuum to remove soot or other contaminates.

# Maintenance

## Gas Control Valve

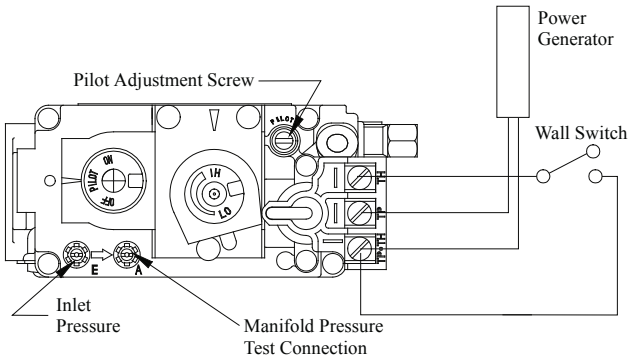



**Figure 44.** ***Vista 38 ST*** *(Sit Nova 820) gas valve*.

## Pilot Burner Adjustment

1. Locate Pilot Adjustment Screw. *See* ***Figure 44***.
2. Adjust pilot key to provide properly sized flame. *See* ***Figure 45***.
3. After installing or servicing, leak test with a soap solution with main burner on. Coat pipe and tubing joints, gasket etc. with soap solution. Bubbles indicate leaks. Tighten any areas where the bubbles appear until the bubbling stops completely.

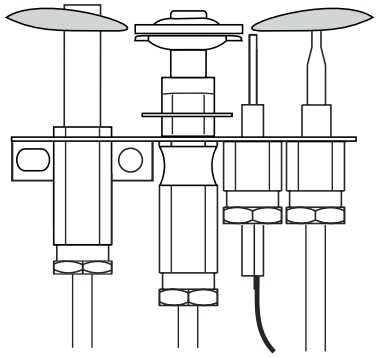


**Figure 45.** *Pilot Burner*

## WARNING!

Do not attempt to clean glass when hot.

Do not clean glass with abrasive materials as any glass etching may cause premature glass failure.

Do not operate this fireplace without the glass door, or with a broken glass door.

## Cautions:

- Fireplace gas control must be in the "OFF" position and pilot and main burners extinguished when cleaning appliance with a vacuum.
- Doors and media can get very hot. Handle only when cool.

## Spare Parts

| | Vista 38 ST |
|---|---|
| NG Gas Valve | RGC1006 |
| NG Pilot | RPA020 |
| NG Burner | RBH38501 |
| NG Orifice | ROR1157 |
| LP Gas Valve | RGC1005 |
| LP Pilot | RPA021 |
| LP Burner | RBH38501 |
| LP Orifice | ROR1158 |
| Door | RDTH38 |

# Maintenance

## Troubleshooting

The following is a troubleshooting chart of possible problems:

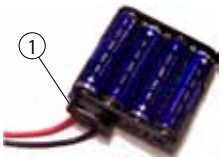
| PROBLEM | CORRECTIVE ACTION |
|---|---|
| Noisy Pilot Flame | Locate pilot adjustment screw on the front of the gas control valve. Flame is decreased by turning adjustment screw clockwise. |
| Pilot won't ignite | Disconnect remote wires and try to light pilot. If pilot now works, remote connections are faulty. Check wiring diagram, below. |
| Main burner will not light | 1. Check wiring<br>2. Check wall switch for proper connection.<br>3. Check pilot burner. If extinguished:<br>a. Allow fireplace to cool, then try to relight.<br>b. If condition persists, call a qualified service person. |

## Troubleshooting

Vista 38 ST E

To reset the SIT System, refer to schematic, below and:

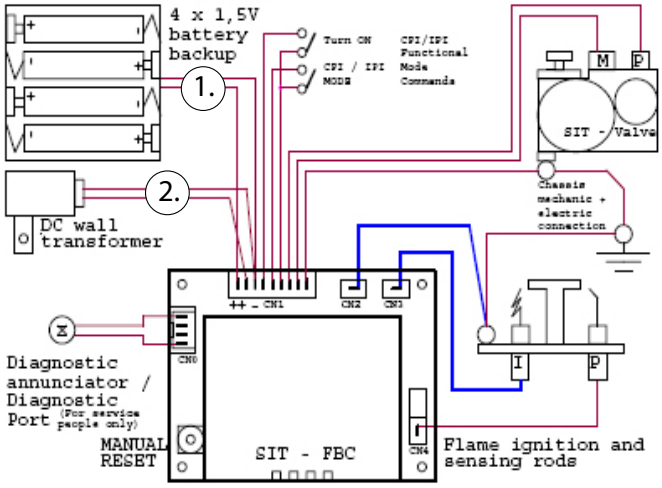
1. Locate the connection to the battery backup and disconnect it.




2. Locate the AC/DC wall transformer and unplug the connector.


Wait for 120 seconds and re-connect the wall transformer and battery backup.

If your fireplace still does not operate correctly, consult your installer.




**All service and repairs should be performed by a qualified agency.**

All spare parts, optional fans, and optional trim finishes are available from your local dealer or the manufacturer.

# Warranty

## The Warranty

The Company warrants the European Home Gas Appliance to be free from defects in materials and workmanship at the time of manufacture. On the European Home Gas Appliance, there is a ten-year warranty on the firebox and its components, a five-year warranty on the main burner and pilot burner, and a one-year warranty on the gas control valve and fibre logs. Glass, plated/painted finishes, and refractory lining are exempt.

## Remedy And Exclusions

The coverage of this Warranty is limited to all components of the Gas Appliance manufactured by The Company.

This Warranty only covers European Home Gas Appliances installed in the United States or Canada.

If the components of the Gas Appliance covered by this Warranty are found to be defective within the time frame stated (see The Company's right of investigation outlined below). The Company will, at its option, replace or repair defective components of the Gas Appliance manufactured by The Company at no charge, and will also pay for reasonable labor costs incurred in replacing or repairing components. If repair or replacement is not commercially practical, The Company will, at its option, refund the purchase price of the European Home Gas Appliance.

This Warranty covers only parts and labor as provided above. In no case shall The Company be responsible for materials, components, or construction which are not manufactured or supplied by The Company, or for the labor necessary to install, repair or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest Company factory.

## Qualifications To The Warranty

The Gas Appliance Warranty outlined above is further subject to the following qualifications:

(1) The Gas Appliance must be installed in accordance with The Company installation instructions and local building codes. The Warranty on this European Home Gas Appliance covers only the component parts manufactured by The Company. The use of components manufactured by others with this European Home Gas Appliance could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This warranty does not cover any damages occurring from the use of any components not manufactured or supplied by The Company

(2) The European Home Gas Appliance must be subjected to normal use. The Gas Appliances are designed to burn gas only. Burning conventional fireplace fuels such as wood, coal or any other solid fuel will cause damage to the Gas Appliance, will produce excessive temperatures and will result in a fire hazard.

## Limitations On Liability

It is expressly agreed and understood that The Company sole obligation, and purchaser's exclusive remedy under this Warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above.

In no event shall The Company be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by Company negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this European Home Gas Appliance is limited to the duration of the foregoing warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above may not apply to you.

## Investigation Of Claims Against Warranty

The Company reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

## The Company Is Not Responsible For Work Done Without Written Consent

The Company shall in no event be responsible for any warranty work done without first obtaining The Company's written consent.

## Dealers Have No Authority To Alter This Warranty

The Company employees and dealers have no authority to make any warranties nor to authorize any remedies in addition to or inconsistent with those stated above.

## How To Register A Claim Against Warranty

In order for any claim under this Warranty to be valid, The Company must be notified of the claimed defect in writing or by telephone, as soon as reasonably possible after the defect is discovered. Claims against this Warranty in writing should include the date of installation, and a description of the defect.

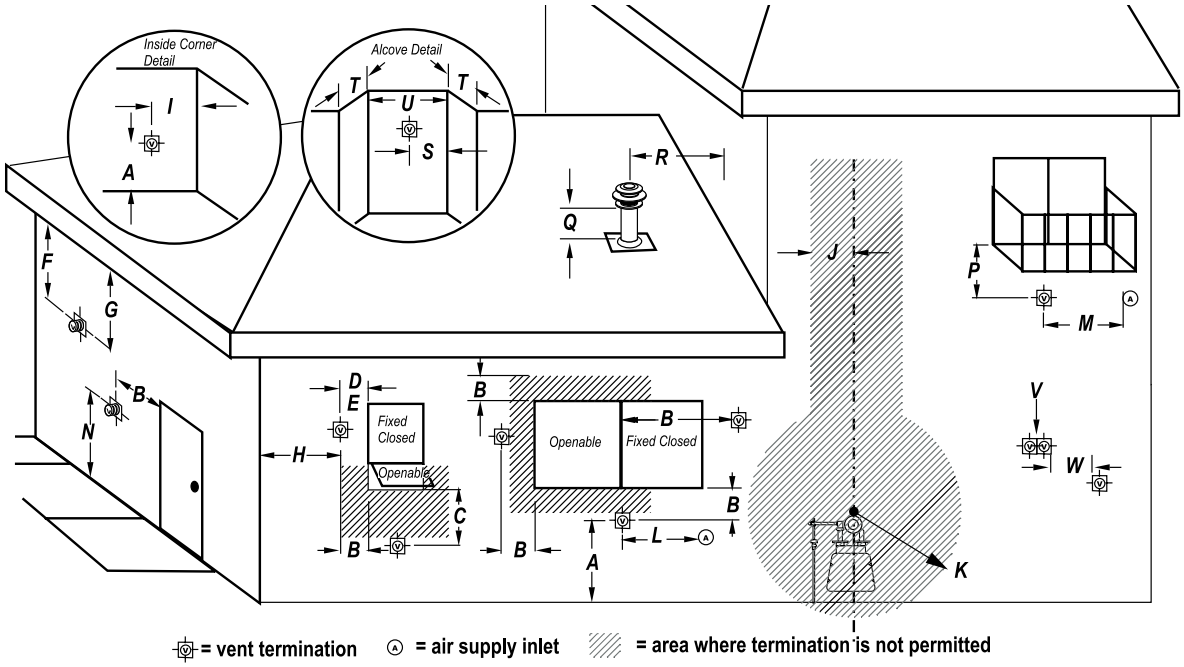
## Other Rights

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

**NOTE:** *The Company,* as stated above, refers to European Home, a division of Europa Ja, Inc.

*The Company reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products.*

# Appendix A - Termination Locations




**A** = *clearance to the termination frame above grade, veranda, porch, deck, or balcony [16 inches (41 cm) minimum]*

**B** = *clearance to door, or sides and top of window, that may be opened [16 inches (41 cm) minimum for appliances ≤100 000 BTU/H (30kW)]*

**C** = *clearance to bottom of window that may be opened horizontally [36 inches (92 cm) minimum for appliances ≤100 000 BTU/H (30kW)]*

**D** = *no clearance to permanently closed window when installed with approved glass penetration termination*

**E** = *clearance to permanently closed window [16 inches 41 cm recommended to prevent condensation on window]*

**F** = *vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (61 cm) from the centerline of the termination [22 inches (56 cm) minimum]*

**G** = *clearance to unventilated soffit [16 inches (41 cm) minimum to non-combustibles] [22 inches (56 cm) minimum to combustibles]*

**H** = *clearance to outside corner [9 inches (23 cm) minimum]*

**I** = *clearance to inside corner [12 inches (31 cm) minimum]*

**J** = ** not to be installed above a meter/regulator assembly within 40" (103 cm) horizontally from the centerline of the regulator*

**K** = *clearance to service regulator vent outlet [3 feet minimum in the United States] [*6 feet (1.8 m) minimum in Canada]*

**L** = *clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [16 inches (41 cm) minimum for appliances ≤100 000 BTU/H (30kW)]*

**M** = *clearance to mechanical air supply inlet [*6 feet (1.8 m) minimum]*

**N** = † *clearance above paved sidewalk or a paved driveway located on public property [*7 feet (2.1 m) minimum]*

**P** = *clearance under veranda, porch, deck, or balcony [16 inches (41 cm) minimum‡ to non-combustibles][22 inches (56 cm) minimum‡ to combustibles]*

**Q** = *clearance above a roof [24 inches (61 cm) minimum]*

**R** = *clearance to adjacent walls and neighboring buildings [18 inches (46 cm) minimum]*

**S** = *clearance from corner in recessed location [12 inches (31 cm) minimum]*

**T** = *maximum depth in recessed location [48 inches (122 cm) minimum]*

**U** = *minimum width for back wall of recessed location [24 inches (61 cm) minimum]*

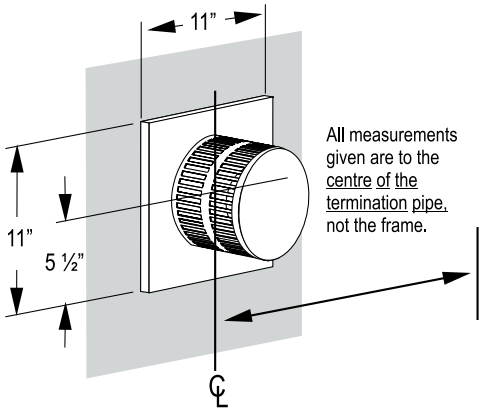
**V** = *no horizontal clearance between the frames of two terminations that are level.*

**W** = *horizontal clearance between the frames of two terminations that are not level. [36 inches (92 cm) minimum]*

† *a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings*

‡ *only permitted if veranda, porch, deck, or balcony has an open side that is equal to or greater than the depth of the enclosed area*

* *as specified in CGA B149 Installation Codes. Note: local Codes or Regulations may require different clearance.*



# *Appendix B - State of Massachusetts*

## Amendment

**(Gas Fireplace / Equipment sold in the State of Massachusetts)**
**5.08: Modifications to NFPA-54, Chapter 10**

**(1) Revise NFPA-54 section 10.5.4.2** by adding a second exception as follows:
Existing chimneys shall be permitted to have their use continued when a gas conversion burner is installed, and shall be equipped with a manually reset device that will automatically shut off the gas to the burner in the event of a sustained back-draft.

**(2) Revise 10.8.3** by adding the following additional requirements:
(a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

**1. INSTALLATION OF CARBON MONOXIDE DETECTORS.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

**2. APPROVED CARBON MONOXIDE DETECTORS.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

**3. SIGNAGE.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

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

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

**(c) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED**. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

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

**(d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED**. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

**2. The "special venting systems"** shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.
(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

**(3) After NFPA-54 section 10.10.4.2** add a new section 10.10.4.3 as follows:
When more than four gas appliances are to be vented through a common gas vent or common horizontal vent manifold, a plan of the proposed vent installation shall be submitted to the Inspector and the serving gas supplier for review and approval.

**Extraction from: Massachusetts Rules and Regulations**
**5.00: Amendments To 2002 Edition Of ANSI Z223.1-NFPA-54**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