



Installation Operation & Maintenance



H34D Gas Fireplace

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.

For Your Safety:

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.

- *Check local codes and read all instructions prior to installation.*
- *Leave this manual with the owner.*



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CAUTIONS

Due to its high operating temperatures, the appliance should be located out of traffic & 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.

Introduction

Thank You for choosing a Montigo Gas Fireplace.

About this Fireplace:

The H34D is an 18,000 BTU fireplace with a pan-style burner and glowing embers. This fireplace can be converted to both a Top Vent or Rear Vent application, and it is available in two models.

- H34D; Top or Rear Vent, Millivolt Pilot
- H34D-I; Top or Rear Vent, Intermittent Pilot (HSI)
- H34D-MH; Top or Rear Vent, Mobile Home

For Mobile Home Approved Models See Appendix B

The H34D is rated for Natural Gas at 18,000 BTU/H (5.28 Kilowatts) Input or Propane at 18,000 BTU/H (5.28 Kilowatts) Input.

How to use this manual:

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 gasfitter 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 H34D refers to all models. Sections which are specific to a particular model are marked with a symbol, plus the appropriate model number.

Warranty and Installation Information:

The Montigo warranty will be voided by, and Montigo 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 Montigo in combination with this Montigo 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 & 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**.

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 Direct Vent installation. Refer to page 4 - *Vent Installation* for more information.

The fireplace dimensions are shown below:

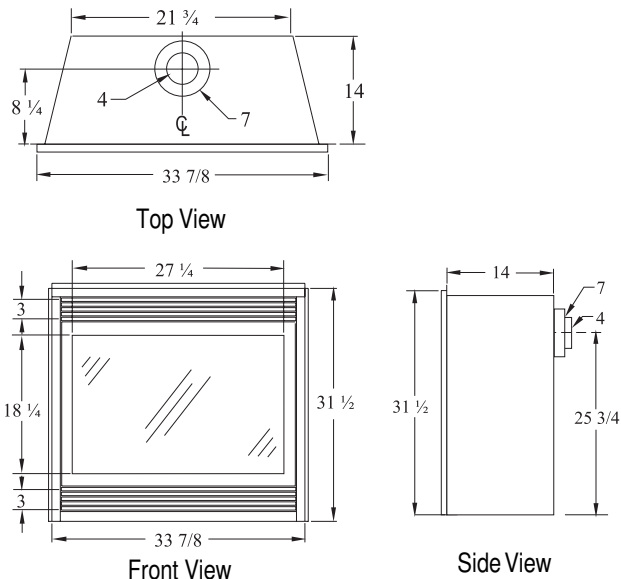


Figure 1. Fireplace dimensions.

Clearances

These clearances apply to all dimensions *except the framed opening*, where the clearance to combustibles is 0". The H34D clearances to combustible materials are:

Top - Rear Vent*	9"
Top - Top Vent	17 1/2"
Back	2"
Sides	1"
Floor	0"
Mantle**	4"

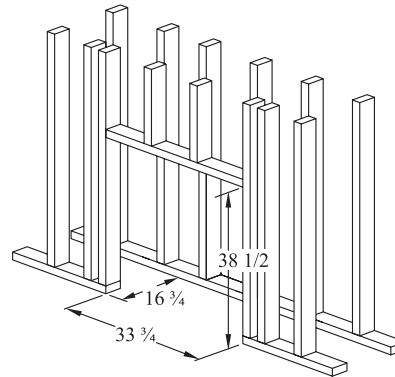
* Clearance from the top of the fireplace to a combustible ceiling within the fireplace enclosure.

** Refer to page 11.

Unprotected combustible walls which are perpendicular to the fireplace opening, must not project beyond the shaded area shown in Figure 23.

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

Framing



* When sheetrock is not used behind the fireplace, framing depth may be reduced to 16"

Figure 2. Framing dimensions.

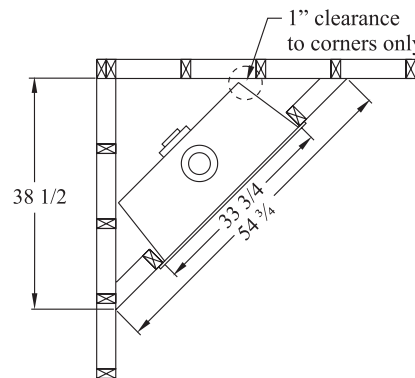


Figure 3. Minimum Corner framing dimensions, using a 45° elbow.

When installing a shelf over the top of the fireplace, the following guidelines must be adhered to: For Rear Vent applications the minimum clearance from the top of the fireplace to a shelf is 11". For Top Vent applications, the minimum clearance is 17 1/2". (*Minimum 2" clearance must still be maintained around the vent pipes.*)

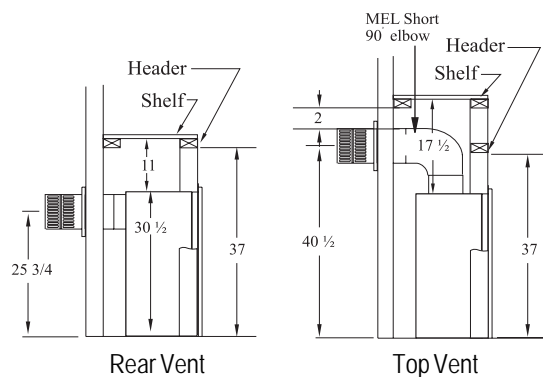


Figure 4. Framing for shelves over the fireplace.

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

Installing The Gas Line

The gas line must be installed before finishing the H34D Fireplace. **Natural Gas** requires a minimum inlet gas supply pressure of 5.5" W.C. & a manifold pressure of 3.5" W.C. **Propane Gas** requires a minimum inlet gas supply pressure of 11" W.C. & a manifold pressure of 10" W.C. Provision must also be made for a 1/8" 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.

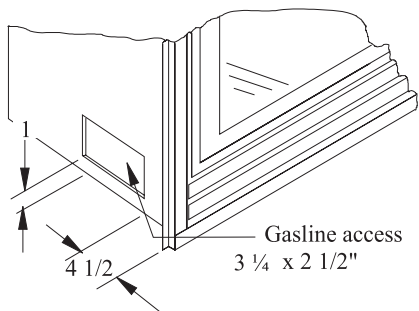


Figure 5. Gas line access.

The 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 psig (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 psig (3.5 kPa).

Note: After 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 H34D's gas valve, located behind the lower trim, may be connected to a wall switch. The valve generates its own power on a **millivolt circuit**. Use only **low voltage wire**, and **DO NOT** connect any external power to it.

Refer to Figure 30 for wiring requirements.

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

- H34D fireplaces are certified for use with Montigo Standard Series (4" / 7") venting components.
- Minimum **2" clearance to combustibles** required for vent pipes
- Use only *certified Montigo vent components*. (Use of other parts will void the Montigo 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 (eg. a 24" section may be stretched to 36").
- Maximum horizontal run with no vertical rise is 6 feet.
- Solid vent sections may be cut less than half way from the female end
- Venting components can be used in any combination of solid/rigid pipe or flex pipe and in any orientation (Male connectors can face in any direction)

Vent Terminations

Selecting A Termination Location

Choosing your vent termination location will help to determine whether you need to use a top vent or rear vent fireplace. Figure 6a, below, shows typical fireplace locations and the venting options they provide.

For a more detailed diagram of allowed termination locations, see *Appendix A*.

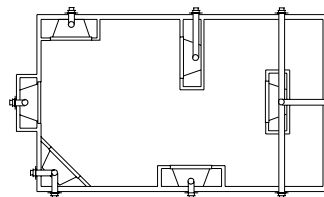


Figure 6a. Fireplace locations and vent terminations.

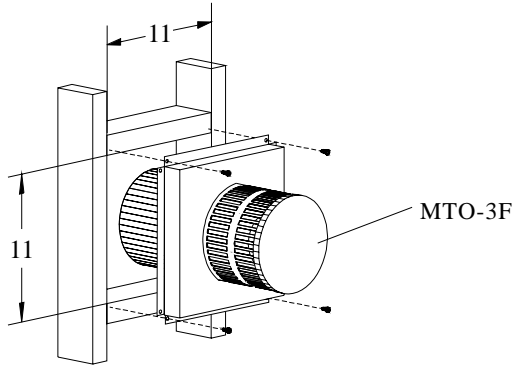
Cautions:

- 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 Montigo Heat Guard. (Part no. MTKOG)
- 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.

Installation

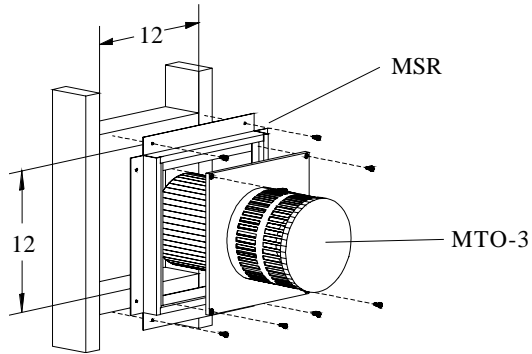


Installing Terminations with Built-In Frames



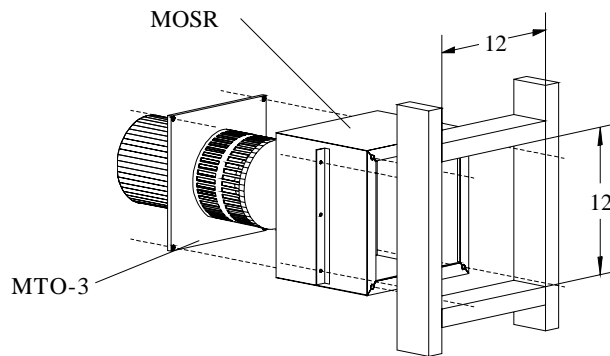
1. Frame the termination opening to 11" x 11".
2. Fasten the termination to the studs using a minimum of 4 screws.

Installing Terminations with MSR Frames



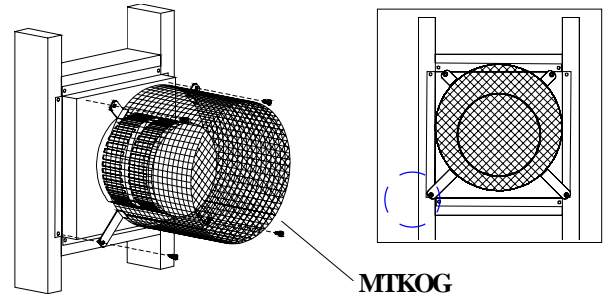
1. Frame the termination opening to 12" x 12".
2. Fasten the termination to the studs using a minimum of 4 screws.

Installing Terminations with MOSR Frames



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



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 The Standoffs

To avoid elevated mantel temperatures, all H38DF 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.

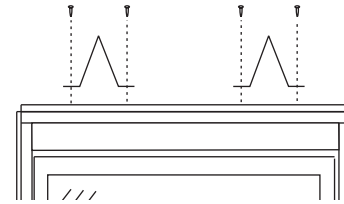


Figure 6b. Installing the standoffs.



Installation

Converting to Top Vent/ Rear Vent

H34DL Top Vent

Use the following instructions to convert an H34DL for Top Vent use:

1. Install the 4" inner flue cap on the rear flue outlet and secure the cap in place with five screws, as shown in figure 7a.
2. Install the 7" outer flue cap on the rear flue outlet, and secure it with five screws, as shown in figure 7a.

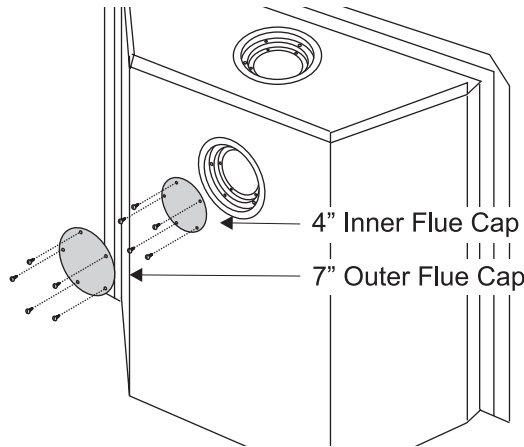


Figure 7a. Flue cap installation for Top Vented fireplace.

3. Install the flue gasket material and flue cover plate on the rear vent outlet. Fasten the plate with four screws, as illustrated below.
4. Install the 4" inner flue collar and the 7" outer flue collar in place on the top vent outlet using 5 screws, as illustrated below.

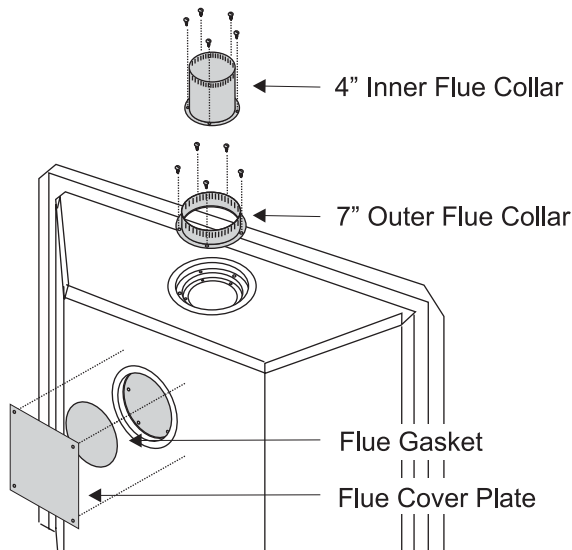


Figure 7b. Flue collar installation for Top Vented fireplace.

H34DL Rear Vent

Use the following instructions to convert an H34DL for Top Vent use:

1. Install the 4" inner flue cap on the top flue outlet and secure the cap in place with five screws, as shown in figure 8a.
2. Install the 7" outer flue cap on the top flue outlet, and secure it with five screws, as shown in figure 8a.

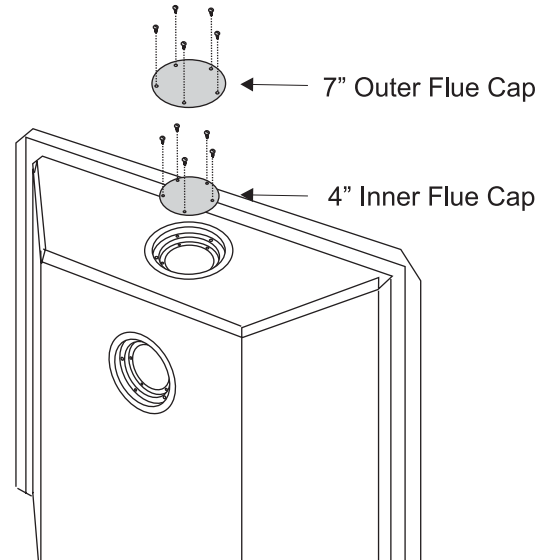


Figure 8a. Flue cap installation for Rear Vented fireplace.

3. Install the flue gasket material and flue cover plate on the top vent outlet. Fasten the plate with four screws, as illustrated in figure 8b.
4. Install the 4" inner flue collar and the 7" outer flue collar in place on the rear vent outlet using 5 screws, as illustrated below.

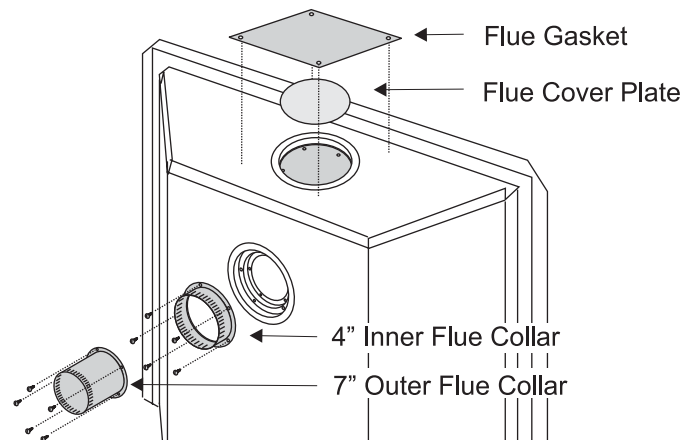


Figure 8b. Flue collar installation for Rear Vented fireplace.

Installation

Top Vent Venting Runs

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

- the maximum vertical vent run for a Top Vented unit is 32 feet

The Venting Graph

Measure the vertical height from the fireplace hearth to the centre of the termination and the horizontal run from the fireplace flue collar to the wall flange of the termination. Plot on the Venting Graph (Fig. 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 108", and the horizontal run to the wall flange of the vent termination is 180", this would be an acceptable installation.

Example B: (Acceptable Installation)

If the vertical dimension from the hearth is 48" and the horizontal run to the wall flange of the vent termination is 72", this would be an acceptable installation.

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", **this would NOT be an acceptable installation.**

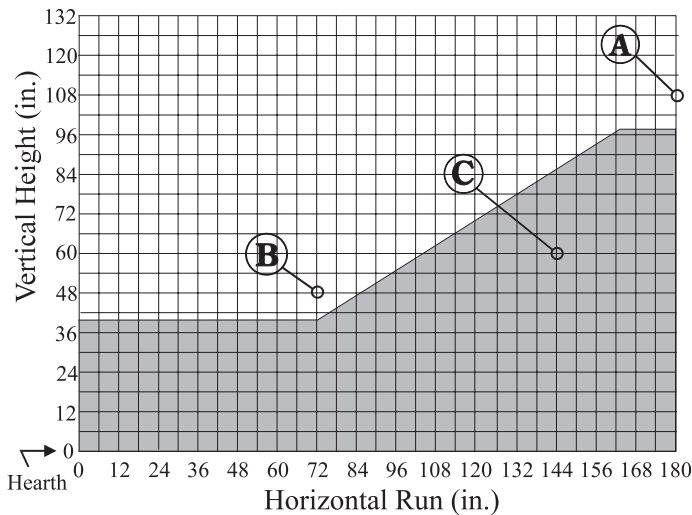


Figure 9. Venting Graph.

Available Top Vent Components

The following venting components are available for the H34D Top Vent:

A - Termination	MTO-3 (3" length) MTO-3F (3" length)
B - Stucco Kits	MSR (stucco frame) MOSR (stucco can) BSR (brick can)
C - Flex sections	MFL-1 (12" section) MFL-2 (24" section) MFL-3 (36" section) MFL-4 (48" section)
D - Rigid sections	MEXT-1 (12" m/f section) MEXT-2 (24" m/f section) MEXT-3 (36" m/f section) MEXT-4 (48" m/f section)
E - Elbows	MEL-90MM (m/m 90° elbow) MEL-90FF (f/f 90° elbow) MEL-90FM (f/m 90° elbow)

NOTES: All dimension lengths for vertical or horizontal runs are measured from center of the vent pipe.
Venting runs *must* fall within the limits set by the venting graph (see Figure 9).

Installation



Example 1:

For our shortest venting configuration use components A and E (see Figure 9a).

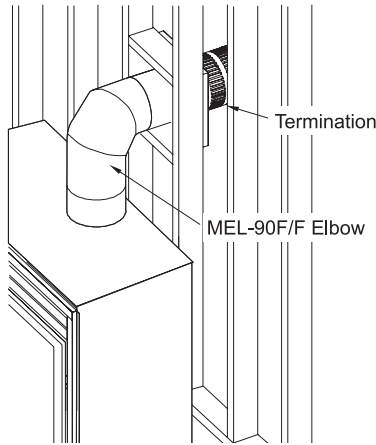


Figure 11. Typical Top Vent installation. If the 90° elbow is installed directly on the fireplace, the height to the center of the termination is 42 1/4".

Horizontal Venting

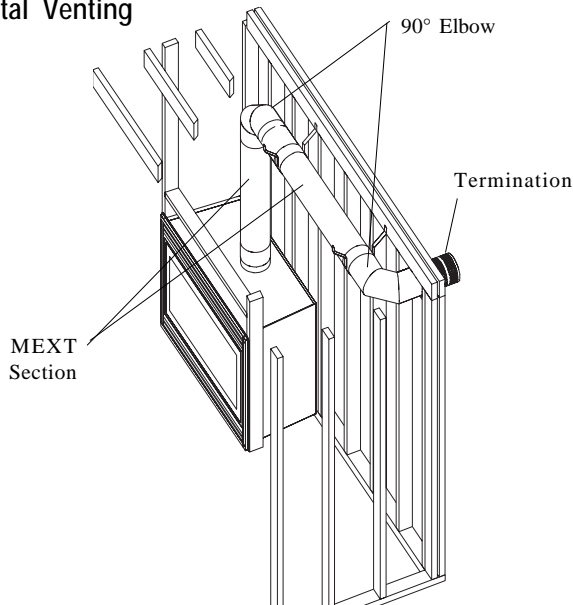


Figure 12. Typical Top Vent installation. The solid sections can be used in various combinations to obtain the desired vent run. The vent run must fall within the limits set by the venting graph.

Example 2:

Rigid sections and an elbow used in conjunction with 3 ft. flex section (MFL-3) will, when extended in a five foot chase, allow for a maximum horizontal run of twelve and one-half feet from the centre of the fireplace to outside wall and a minimum of 7'6" when retracted in opposite direction (see Figure 13 and 14).

"C" flex sections and "D" rigid sections may be used in conjunction with one another to obtain different possible horizontal length installations.

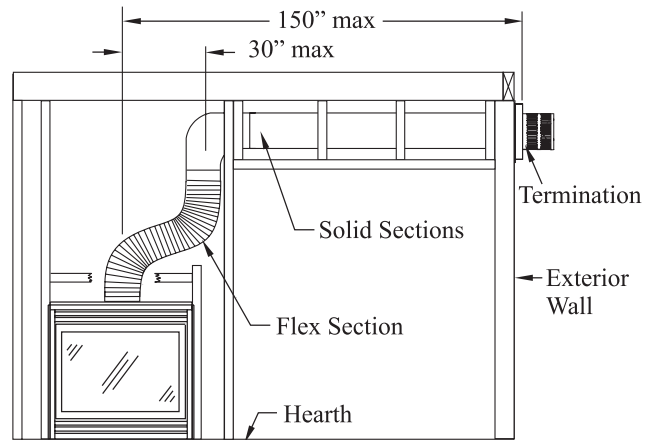


Figure 13. Extended Installation using a combination of solid and flex venting. Use the vent graph to determine your allowable run, then select appropriate components.

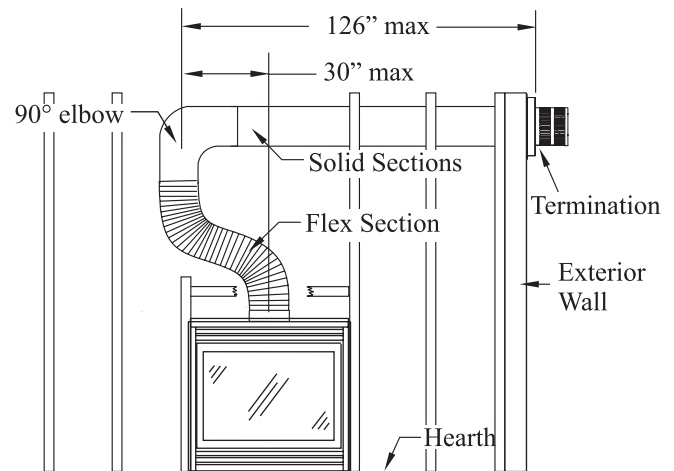


Figure 14. Retracted Installation using a combination of solid and flex venting. Use the vent graph to determine your allowable run, then select appropriate components.

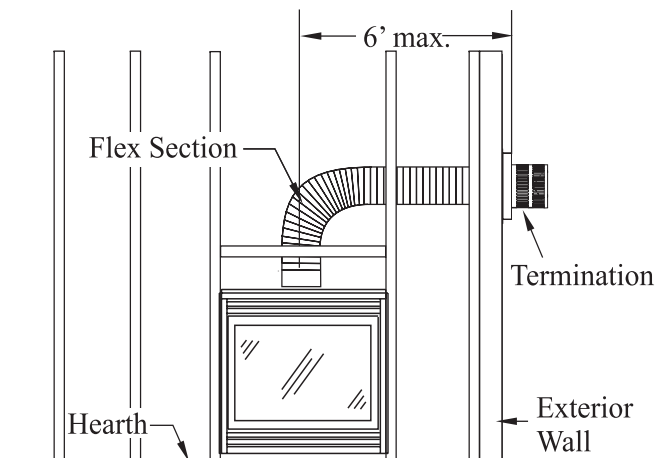


Figure 15. Horizontal flex installation with no vertical rise.



Installation

B. Vertical (Through-The-Roof) Installations

- 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" (1 1/2 feet) from a parapet wall.
- Maximum vent height is 32 feet above fireplace.

Note: Flame characteristics will change if the maximum vent height is used.
- Minimum clearances 2" from vent to all combustibles must be maintained.

A - Termination	MVTK-1
B - Flex sections	MFL-1 (12" length) MFL-2 (24" length) MFL-3 (36" length) MFL-4 (48" length)
C - Solid sections	MEXT-1 (12" length) MEXT-2 (24" length) MEXT-3 (36" length) MEXT-4 (48" length)
D - Support Ring & Plate	MSPXT-7
E - Firestop	FS-7
F - Roof Flashing	MRF-7 (1/12-7/12 pt.) MRF-12 (7/12-12/12 pt.)

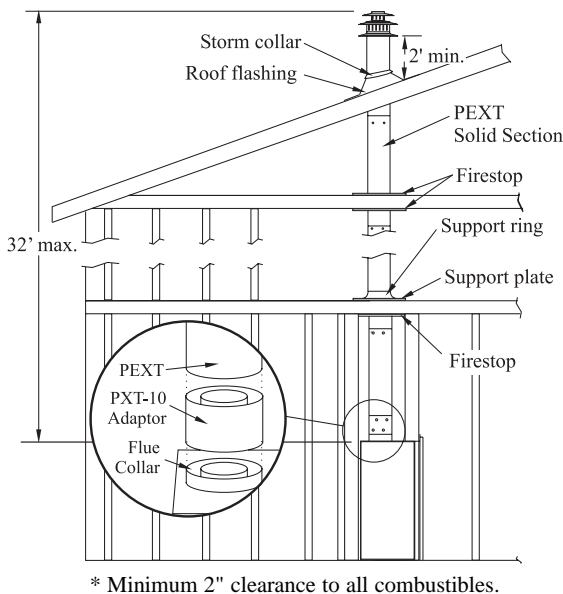


Figure 16. Straight, vertical venting showing required MXT-10 adaptor (supplied with the MVTK-1 termination).

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

Example: Typical vent installation.
 20' vertical vent
 2 - 2' offsets required
 25% of 20' = 5' max. offset allowed
 This venting configuration meets requirements.

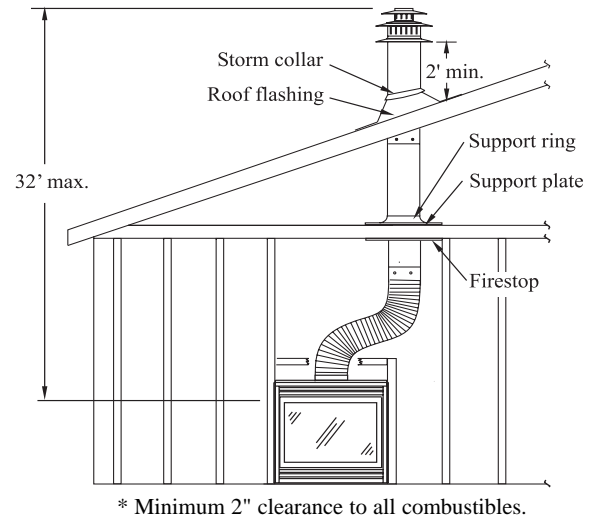


Figure 17. Vertical venting with 1 offset (1 offset= two 90° bends).

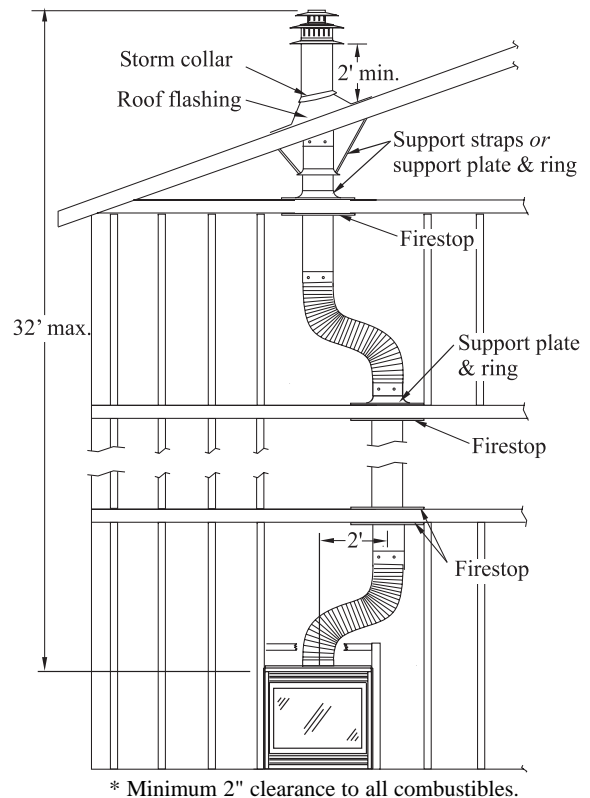


Figure 18. Vertical venting with 2 offsets (1 offset= two 90° bends).

Installation



Rear Vent Venting Runs

The H34DL Rear Vent has three possible installations which do not require vertical lift, all of these installations require that you install the RHS101 heat shield.

Heat Shield

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, proper vent clearances can be maintained. **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 19.

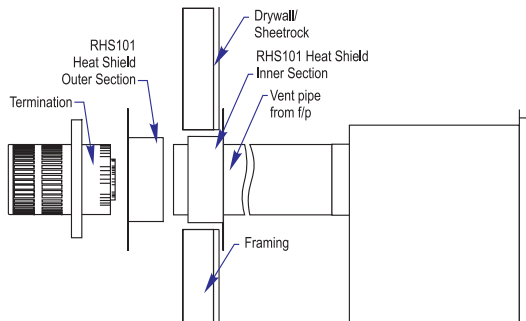


Figure 19. Heat Shield. Install by sliding over the vent pipe where it passes through combustible construction.

1. Straight Installation.

The height from the hearth to the center of the termination is 27 3/8". H34DL Rear Vent versions are supplied with a 18" extension pipe (EXT18) with female/female connections. For shorter installations, cut the EXT18 to the desired length. Refer to figure 20.

For extended installations, use the EXT18 section as supplied for a 18" vent run. **Ensure that the RHS101 heat shield is installed before attaching the pipe to the termination.**

Note: For Rear Vent models, maximum horizontal run with no vertical lift must never exceed 18".

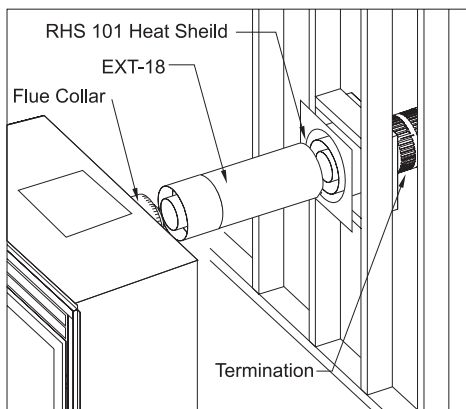


Figure 20. Extended installation.

2. 45° Corner Installation.

Attach an EEL-45 (45° elbow) directly onto the flue collar. Cut the EXT-18 to suit, and attach it to the EEL-45. Slide the fireplace into position and attach to the termination. **Ensure that the RHS101 heat shield is installed before attaching the pipe to the termination.**

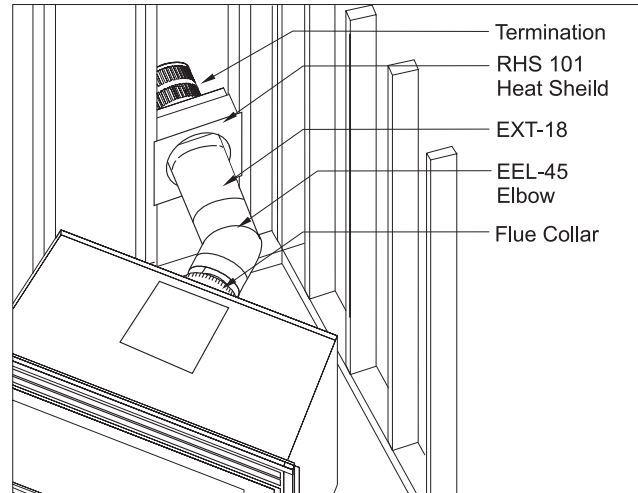


Figure 21a. Corner installation.

3. Corner Installation — 45° or less.

Use an MTO-3 termination and an MFL-1 or MFL-2 (12" or 24" compressed length) and a frame, if appropriate. Flex may be turned to obtain desired degree of angle required but must not exceed 45°. **Ensure that the RHS101 heat shield is installed before attaching the pipe to the termination.**

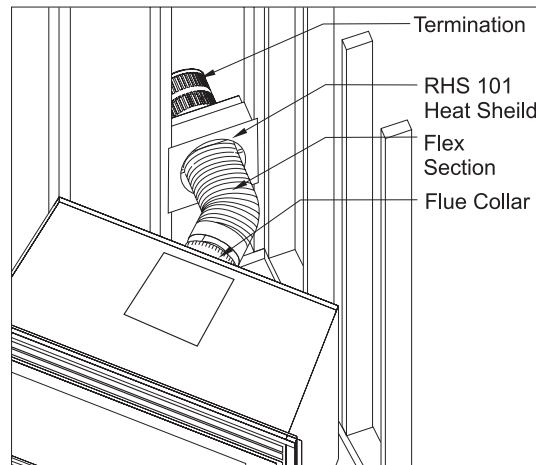


Figure 21b. Flex installation.



Installation

B. Multi-Elbow Installations

For more difficult installation situations, the H34D Rear Vent may be installed with two — 90° elbows and up to 15' of horizontal run. If using this installation option, you must adhere to the following guidelines:

- the first 90° elbow must be placed directly on the flue collar
- you must have a minimum vertical lift of 46" (measured from the hearth)
- your vent run must fall within the limits set by Figure 18a

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

The Venting Graph

Measure the vertical height from the fireplace hearth to the centre of the termination and the horizontal run from the fireplace flue collar to the wall flange of the termination. Plot on the Venting Graph (Fig. 22) 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 84" and the horizontal run to the wall flange of the vent termination is 36", this would be an acceptable installation.

Example B: (Acceptable Installation)

If the vertical dimension from the hearth is 94" and the horizontal run to the wall flange of the vent termination is 126", this would be an acceptable installation.

Example C: (Unacceptable Installation)

If the vertical dimension from the floor of the fireplace is 78" and the horizontal run to the wall flange of the vent termination is 108", this would **NOT** be an acceptable installation.

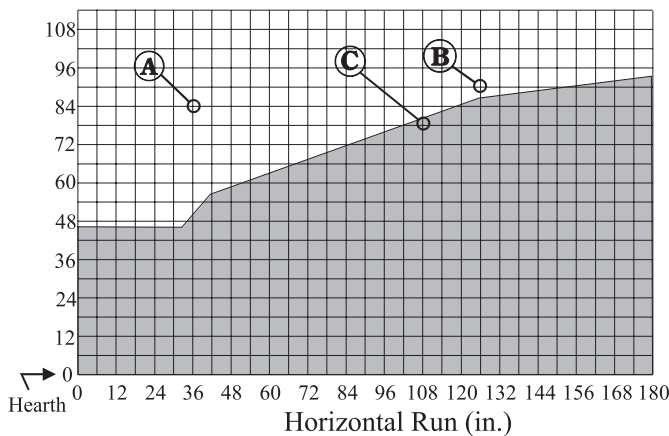


Figure 22. H34D Rear Vent Venting Graph

Installation Of Rear Vent DV

H34D Rear Vent versions are supplied with an EXT-18 (female/female) section. In addition, the following venting components are available for Rear Vent installations:

A - Termination	MTO-3 (3" length) MTO-3F (3" length)
B - Stucco Kits	MSR (stucco frame) BSR-4 (4" brick frame) BSR-6 (6" brick frame) MOSR (stucco can)
C - Flex sections	MFL-1 (12" section) MFL-2 (24" section) MFL-3 (36" section) MFL-4 (48" section)
D - Solid sections	MEXT-1 (12" section) MEXT-2 (24" section) MEXT-3 (36" section) MEXT-4 (48" section)
E - 90 degree elbow	MEL-90MM (m/m 90° elbow) MEL-90FF (f/f 90° elbow) MEL-90FM (f/m 90° elbow) EEL-45 (f/m 45° elbow)

NOTES: All dimension lengths for vertical or horizontal runs are measured from center of the vent pipe.
Venting runs *must* fall within the limits set by the venting graph (see Figure 23).

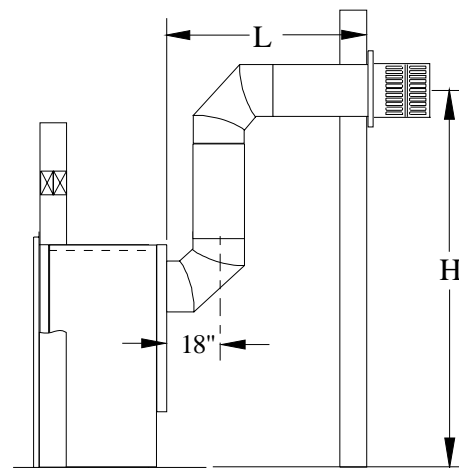


Figure 23. Multi-elbow installation. Distance 'H' must be a minimum of 46". The vent run must comply with figure 18a.



Installation

Finishing Around the Fireplace

Combustible mantels and mouldings 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 23**. Side wall clearances are 3". Combustible surrounds may be installed with 3" clearance to the side of the fireplace as shown in **Figure 24**.

Fireplace Facing

When selecting the finish material for your fireplace, it is important to remember the following: **THE LOWER GAS CONTROL PANEL 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.

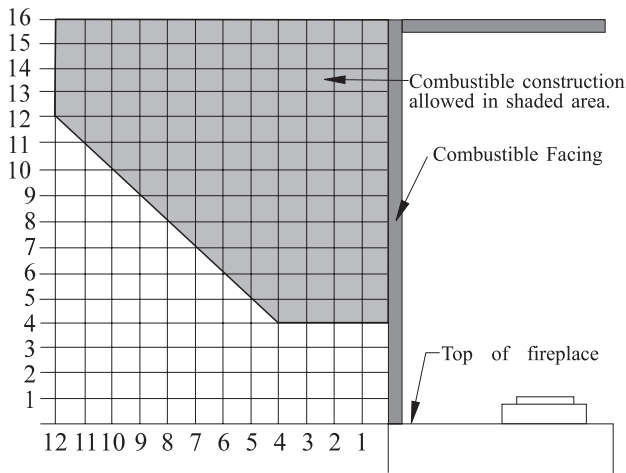


Figure 23. Combustible mantels and facings.

Mantels & Surrounds

NOTE: National Canadian Gas Association mantel test requirements are for fire hazard prevention to combustible materials.

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.

Painting:

Special care is recommended by the Master Painters and Decorators

Association, when painting the fireplace surrounds, to select and apply a quality *Alkyd sealer* prior to the applying of latex paints. This is to prevent leaching of water from evaporation and causing a brownish staining effect to paint over coats.

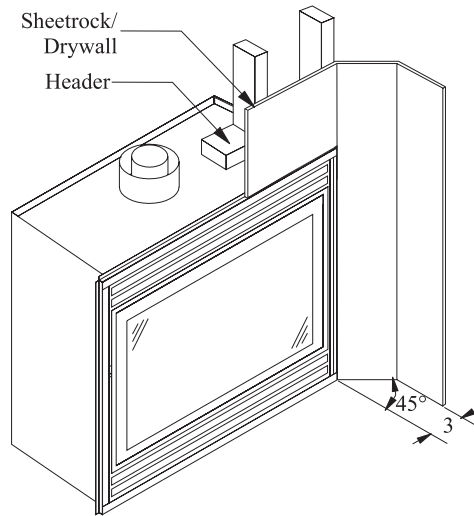


Figure 24. Combustible surrounds.

Wiring

Gas Control and Pilot Wiring **H34D-I**

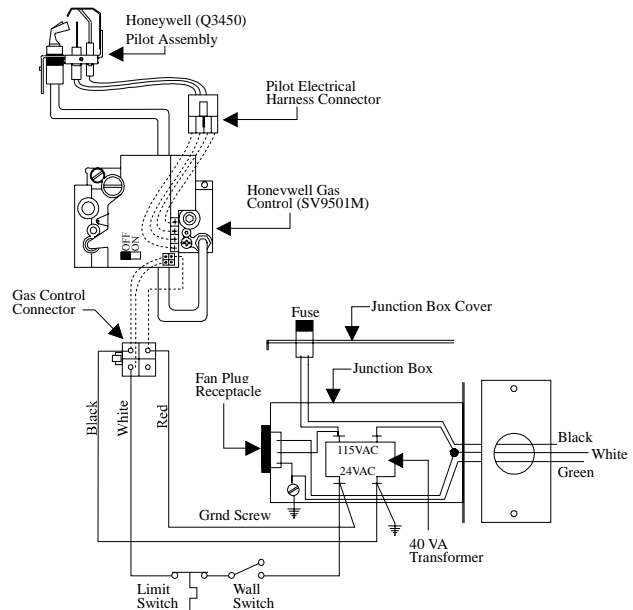


Figure 25. Wiring for the H34D-I with Honeywell gas control and pilot.



Installation

Wiring for the *optional* Fan Kit

All H34D fireplaces 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.

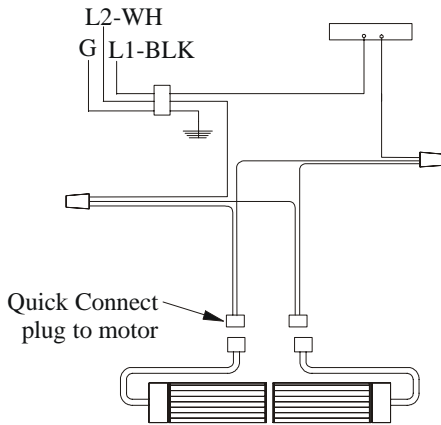


Figure 26a. Wiring for optional fans.

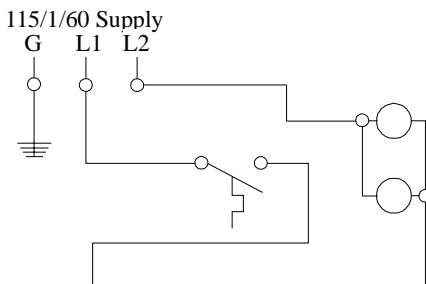


Figure 26b. Wiring schematic for optional fans.

Removing and Installing the Door

Removing the door:

The door is held in place by a lip on the top of the metal frame and two buckles at the bottom. Release the buckles and lift the door carefully up and away from the front of the fireplace. *See figures 27a and 27a.*

Installing the door:

Hook the top edge of the door frame into place. Lower and rest the door frame in place and fasten the buckles. *See figures 27a and 27b.*

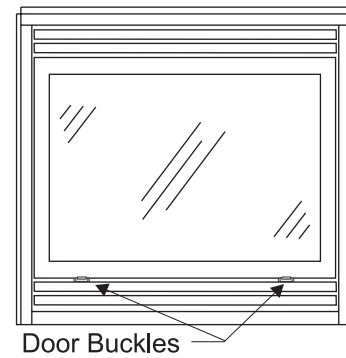


Figure 27a. Removing and installing the glass door.

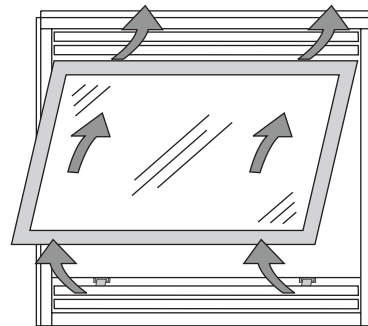


Figure 27b. Removing and installing the glass door.

Installation



Installing the Log Set

Installing the Logs:

The H34DF is supplied with four ceramic fibre logs and a ceramic fibre logset base. Unpack the logs and handle them very carefully.

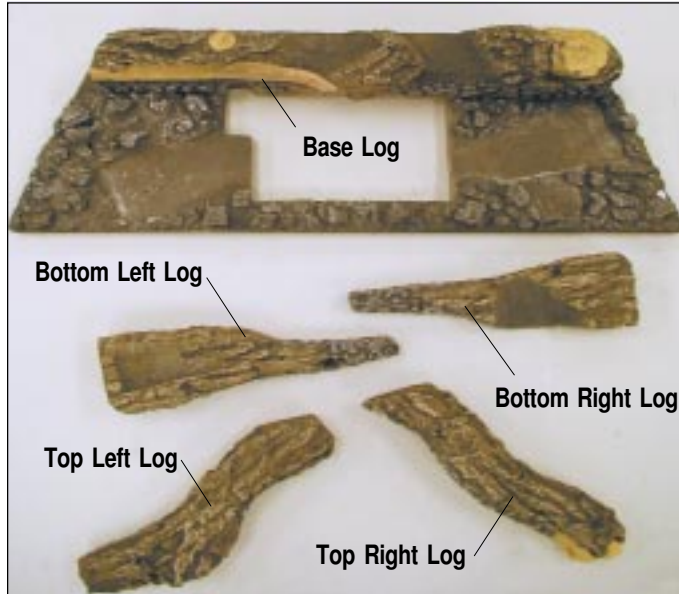


Figure 28a. H34DF's five piece logset.

1. Remove the glass door.
2. The base log is factory-installed, as shown below in figure 28b.



Figure 28b. Base log placement.

3. Arrange the ember chips on top of the burner tray. Care should be taken when placing the ember chips, as blocked burner ports may cause an incorrect flame pattern, carbon deposits and delayed ignition. Also, the chips must never be placed in a way that obstructs any of the air inlet ports, located at the rear of the burner, as shown in figure 28c.

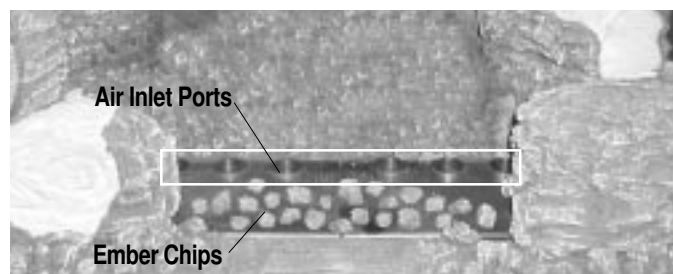


Figure 28c. Ember Chip placement.

3. Place the bottom left and right logs as shown below in figure 28d.
4. Place the top left and right logs as shown in figure 28e.

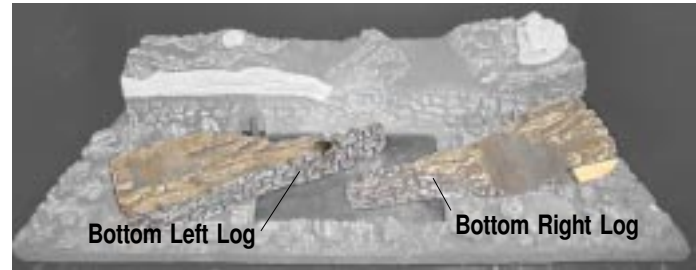


Figure 28d. Bottom left and right log placement.



Figure 28e. Top left and right log placement.

5. Start the fireplace. If the flame appears satisfactory, replace the glass door. If the flame does not appear satisfactory, double-check the air inlet and exhaust outlet pipe to ensure that they are unobstructed.

Cautions:

- If logs are not placed properly, excessive sooting will result.
- The surface of the logs will crack due to the heat from the flames. This is a normal occurrence.



with Continuous Pilot

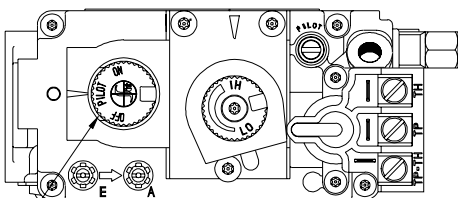
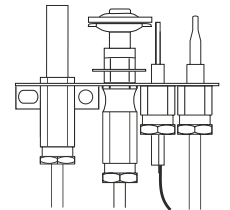
For Your Safety - READ BEFORE LIGHTING:

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 neighbour'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. Flip down the lower trims.
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 counterclockwise ↻ 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 counterclockwise ↻ to "ON."
9. Flip up the lower trim.
10. Turn on remote switch to ignite fire.



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

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. Flip down the lower trim.
3. Push in gas control knob slightly and turn ↻ clockwise to "Off". Do not force.
4. Flip up the lower trim.



H34D-I

Operation - Model H34D-I

with Honeywell Electronic Ignition

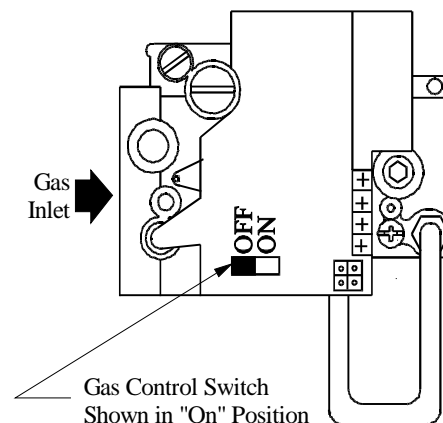
For Your Safety - READ BEFORE LIGHTING:

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 neighbour'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. Flip down the lower trims.
3. Turn switch on the gas control to "OFF".
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 switch on the gas control to "ON". **NOTE:** This unit is equipped with an ignition system that lights the pilot burner automatically. **Do not attempt to light the pilot by hand.**
6. Turn on wall switch.
7. Flip up the lower trim.
8. If the fireplace does not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Flip down the lower trim.
3. Turn the switch on the gas control to "Off".
4. Flip up the trim.

Operation

Operation



Lighting Instructions

See pages 14 and 15.

Burner Adjustment

The H34D 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 centre of the gas control valve (See Figure 29). 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**.

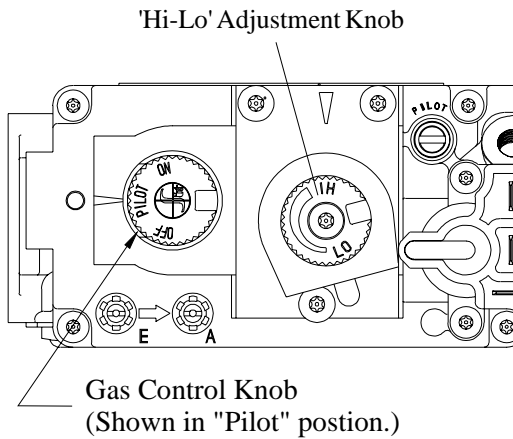


Figure 29. 'Hi-Lo' Adjustment on the H34D's gas valve.

Note: H34D-I (electronic ignition) or H34D-MH (mobile home) models do not feature hi/lo adjustment. For electronic ignition (HSI) models see figure 25, for mobile home approved models see Appendix B.

Maintenance

Maintenance



CAUTIONS

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

General

- Have the fireplace installation inspected yearly, including a visual check of the vent system, the burner and the pilot flame. For your convenience a 1/8" manifold pressure tap is supplied on the gas valve for a test gauge connection. See Figure 29.
- 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 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 vapours 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 byproduct of combustion) which may be visible. Film can easily be removed by removing the door, as shown on page 12. Handle the door carefully, and clean it with non-abrasive glass cleaners. One of the most effective products is Kel Kem.
- 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.
- Logs may be cleaned periodically with a vacuum to remove soot or other contaminants.

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.



Maintenance

Gas Control Valve

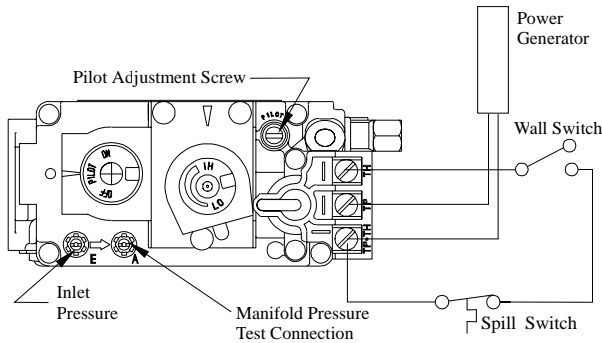


Figure 30. Sit Nova 820 gas valve.

Pilot Burner Adjustment

1. Locate Pilot Adjustment Screw. (See figure 30.)
2. Adjust pilot screw to provide properly sized flame as shown in figure 31).
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.

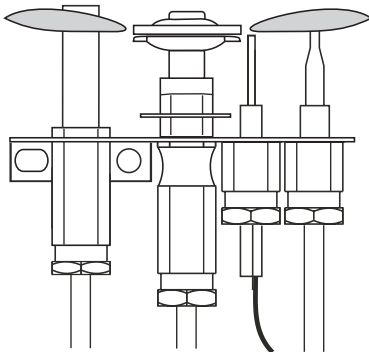


Figure 31. Pilot Burner.

Troubleshooting H34D

The following is a troubleshooting chart of possible problems:

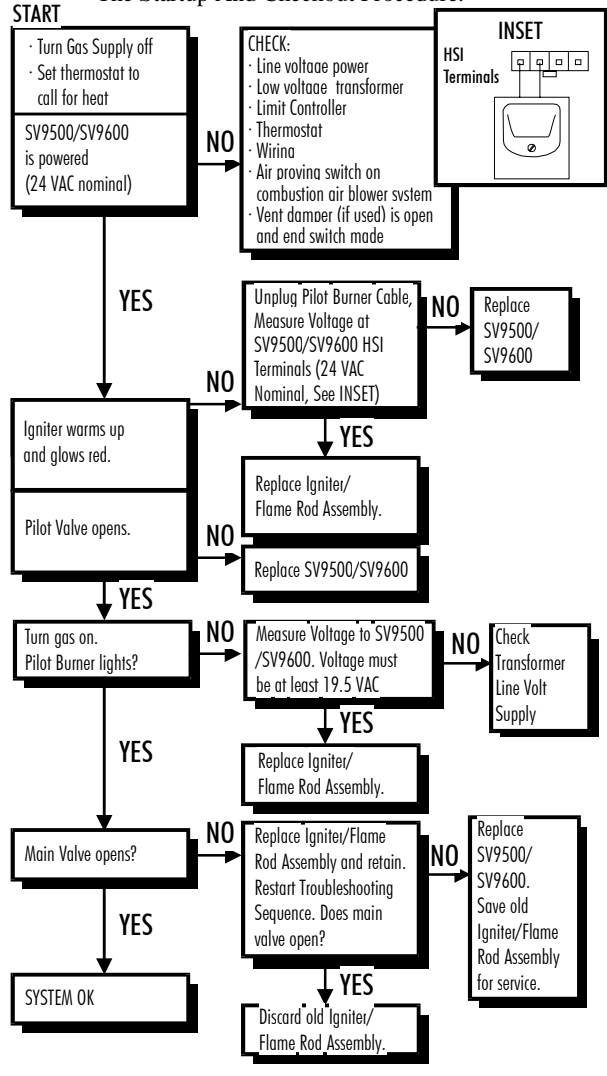
PROBLEM	CORRECTIVE ACTION
Noisy Pilot Flame	Locate pilot adjustment screw on gas control valve. Flame is decreased by turning adjustment screw clockwise.
Pilot won't ignite	Disconnect remote wires and try to light pilot. If pilot now works, remote connections are faulty. Check wiring diagram figure 30.
Main burner will not light	1. Check wiring (see figure 30). 2. Check wall switch for proper connection.

Troubleshooting

H34D-I

HONEYWELL SV 9500 /SV9600 Troubleshooting Sequence

NOTE: Before Troubleshooting, Familiarize Yourself With The Startup And Checkout Procedure.



If your fireplace still does not operate correctly, consult your dealer or the manufacturer.

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 Companies warrants the Montigo Gas Appliance to be free from defects in materials and workmanship at the time of manufacture. On the Montigo, 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 Companies.

This Warranty only covers Montigo 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 Companies right of investigation outlined below). The Companies will, at its option, replace or repair defective components of the Gas Appliance manufactured by The Companies at no charge, and will also pay for reasonable labour costs incurred in replacing or repairing components. If repair or replacement is not commercially practical, The Companies will, at its option, refund the purchase price of the Montigo Gas Appliance.

This Warranty covers only parts and labour as provided above. In no case shall The Companies be responsible for materials, components, or construction which are not manufactured or supplied by The Companies, or for the labour necessary to install, repair or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest The Companies 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 Companies installation instructions and local building codes. The Warranty on this Montigo Gas Appliance covers only the component parts manufactured by The Companies. The use of components manufactured by others with this Montigo 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 Companies
- (2) The Montigo 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 Companies 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 Companies 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 The Companies 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 Montigo 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 Companies reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

The Companies Are Not Responsible For Work Done Without Written Consent

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

Dealers Have No Authority To Alter This Warranty

The Companies 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 Companies 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.

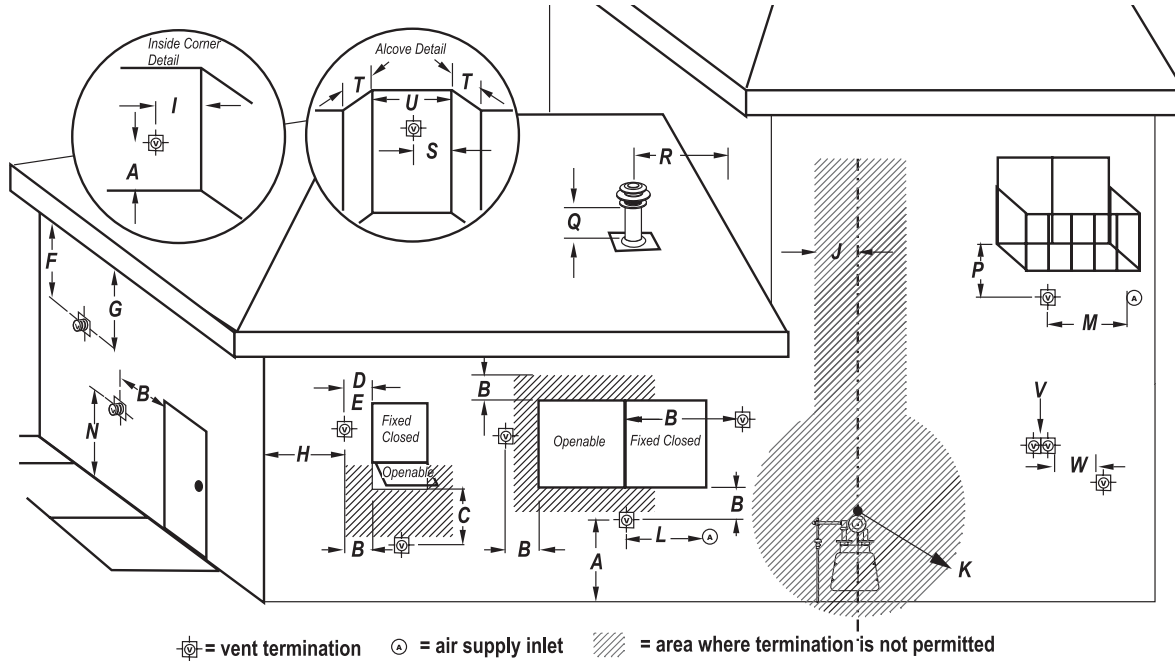
Other Rights

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

NOTE: *The Companies* as stated above refer to - Canadian Heating Products Inc. and/or Montigo Del Ray Corp.

Canadian Heating Products Inc. and/or Montigo DelRay Corp. 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



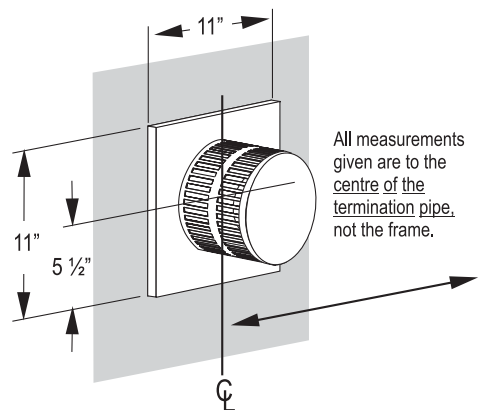
- A** = clearance to the termination frame above grade, veranda, porch, deck, or balcony [16 inches (41 cm) minimum]
- B** = clearance to door, or sides and top of window, that may be opened [16 inches (41 cm) minimum for appliances ≤100 000 BTU/H (30kW)]
- C** = clearance to bottom of window that may 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 centreline 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 centreline 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 nonmechanical 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 neighbouring 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 clearances



Appendix B - H34D-MH Mobile Home

This appliance may be installed as an OEM installation in a manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, in the United States or *The Mobile Home Standard, CAN / CSA Z240 MH Series*, in Canada. This appliance is only for use with the type(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

H34D-MH Mobile Home

The mobile home option is a factory installed on the H34D-MH gas fireplace, and is for use in a manufactured or mobile home.

The standard H34D or the H34D-I equipped with Hot Surface Ignition (HSI) are not approved for use in mobile or manufactured homes.

The H34D-MH is rated for:

- Natural Gas at 18,000 BTU/H (5.28 Kilowatts) max. input, and 14,000 BTU/H (4.10 Kilowatts) min. input.
- Propane at 18,000 BTU/H (5.28 Kilowatts) max. input, and 14,000 BTU/H (4.10 Kilowatts) min. input.

A manufactured home (USA only) or mobile home OEM installation must 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 Fire Safety Criteria for Manufactured Home Installation Sites and Communities, ANSI/NFPA 501A*, in the United States or the *Mobile Home Standard, CAN / CSA Z240 MH Series*, in Canada.

Gas Control Valve

The following gas control valve is installed on the H34D-MH.

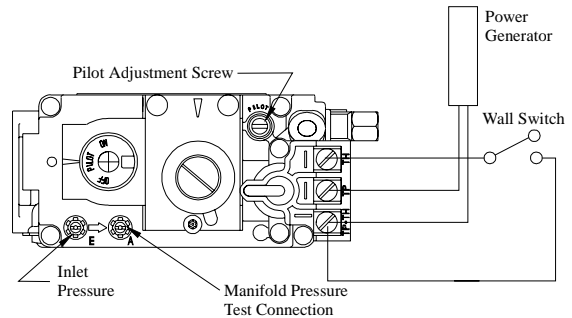


Figure B1. Sit Nova 820 gas valve.

Conversion Kits

The H34D-MH mobile home appliance is field convertible between Natural Gas (NG) and Propane (LP).

To convert from Natural Gas to Propane order conversion kit # RCVxxx.

To convert from Propane to Natural Gas order conversion kit # RCVxxx.

Conversion kits are available for standard H34D conversion between Natural Gas (NG) and Propane (LP).



XG0130 Rev. 0 - 11/2003

Canadian Heating Products Inc.
Langley, BC V4W 4A1

Montigo Del Ray Corp.
Ferndale, WA 98248