

The Monterey (PENNINSULA) MODEL PN36

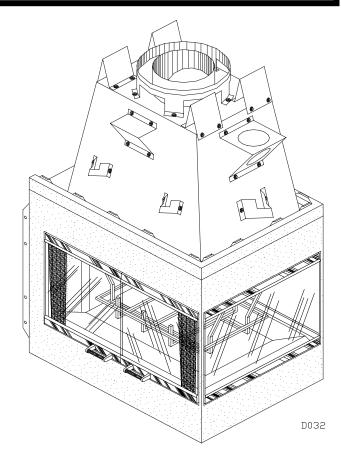
3-SIDED, WOOD-BURNING FIREPLACE

INSTALLATION AND OPERATING INSTRUCTIONS

SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.

WARNING: ALWAYS LEAVE GLASS DOORS FULLY OPENED WHEN OPERATING THE APPLIANCE





FOR YOUR SAFETY

- Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this or any other appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Do not place clothing or other flammable materials on or near the appliance.
- NEVER leave children unattended when a fire is burning in the fireplace.

WARNING: **IMPROPER** INSTALLATION. ADJUSTMENT. ALTERATION. SERVICE OR CAUSE **MAINTENANCE** CAN INJURY, PROPERTY DAMAGE, OR LOSS OF LIFE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION, CONSULT A QUALIFIED INSTALLER OR LOCAL DISTRIBUTOR.

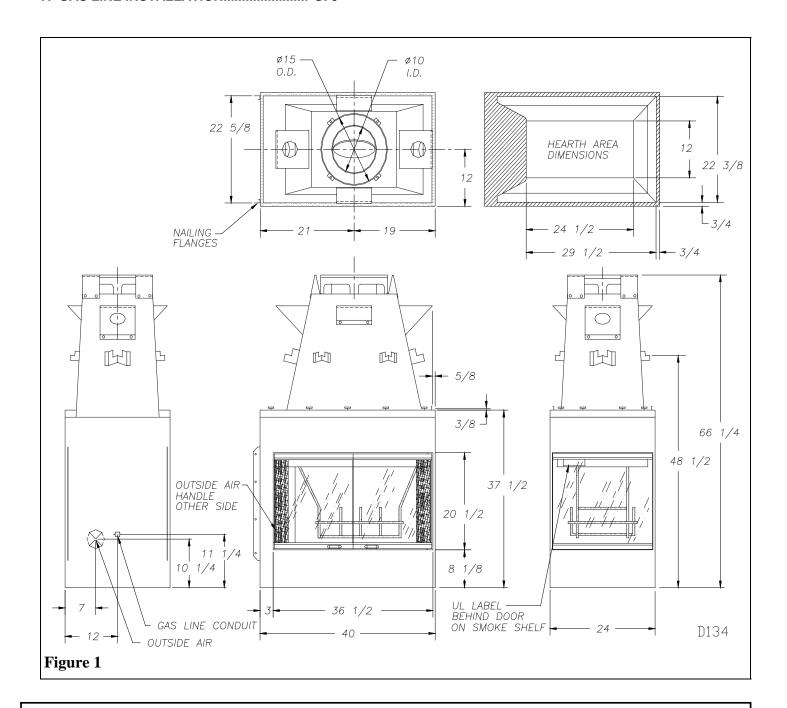
WARNING: THIS FIREPLACE IS INTENDED FOR USE WITH WOOD, DECORATIVE GAS APPLIANCE AND VENT FREE GAS LOGS WHICH BURNS PROPANE OR NATURAL GAS ONLY.

CHECK LOCAL CODES BEFORE INSTALLING THIS FIREPLACE

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NOTE: ALL DIMENSIONS IN THIS INSTALLATION MANUAL ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

<u>INTRODUCTION</u>

Model PN-36 series us a wood-burning fireplace intended and approved for installation in either residential homes or buildings of standard construction.

This model is not for use in mobile homes.

This fireplace system requires the utilization of an FMI 10" double-wall, snap-lock flue pipe system.

GLASS DOORS are standard with this fireplace and come in different styles (see parts list on last page).

BE SURE TO CHECK WITH YOUR LOCAL BUILDING CODES FOR AREA REQUIREMENTS BEFORE INSTALLING THIS FIREPLACE.

The model's serial number and any other specific rating information may be found on the unit in the UL RATING PLATE located at the interior of the fireplace's opening (See figure 1)

BEFORE YOU BEGIN:

Before beginning the installation of your fireplace; read these instructions through completely.

This FMI fireplace and its approved components are safe when installed according to this installation manual and operated as recommended by FMI. Unless your use FMI approved components tested for this fireplace, YOU MAY CAUSE A FIRE HAZARD!

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

- A) Modification of the fireplace or any of the components manufactured by FMI unless otherwise permitted by FMI.
- B) The use of a fireplace insert or any other component part not approved by FMI in combination with an FMI fireplace.
- C) Installation and/or operation in a manner other than instructed in this manual.
- D) The burning of any other fuel not tested or approved by FMI in this wood-burning fireplace.

PROPER INSTALLATION is the most important step in ensuring a safe and continuous operation of this fireplace.

Although grounding may not be required by code in your area, it must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code**, **ANSI/NFPA 70-1987**.

This fireplace is intended for installation in accordance with the **National Fire Protection Association** Standard for Chimneys, Fireplaces, Vents, and Solid-Fuel Burning Fireplaces, **NFPA 211**, and in accordance with codes such as the **BOCA Basic/National Code**, the **Standard Mechanical Code**, and the **Uniform Building Code**. This wood burning fireplace complies with **UL 127** as a FACTORY BUILT FIREPLACE and is listed and tested by **Underwriters Laboratories Inc.**

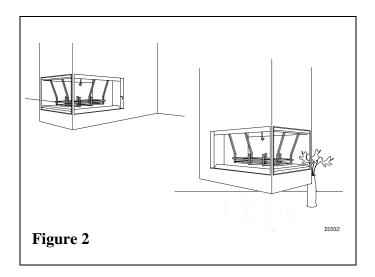
NOTE: Installation and repair should be done by a qualified installer. The fireplace and chimney system should be inspected and cleaned before use and periodically thereafter especially during heating season to ensure a safe operating system.

THIS FIREPLACE IS NOT INTENDED TO BE USED AS A PRIMARY SOURCE OF HEAT.

SELECTING LOCATION

To determine the safest and most efficient location for your fireplace, you must take into consideration the following guidelines:

- 1. The location must allow for all the proper clearances (see section on clearances).
- 2. Consider a location where the heat output would not be affected by drafts, air conditioning ducts, windows or doors.
- 3. A location that avoids the cutting of joists or roof rafters will make installation easier.
- 4. If an outside air kit is to be installed, accessibility to outside combustion air must be considered. This can also be achieved through a vented crawl space in some cases, for more details refer to section on outside air kit installation.



The typical installation for a peninsula is a **projected installation**, which allows you to extend the fireplace any distance into the room. A projection may be ideal for a new addition on an existing, finished wall.

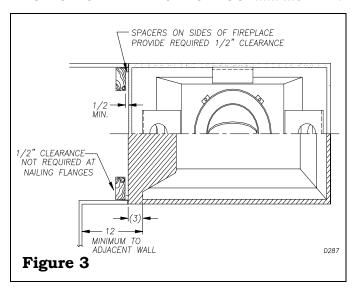
ALSO IN SELECTING A LOCATION, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED:

- **1.** Do not connect this fireplace to a chimney system other than an **FMI** chimney system.
- **2.** Install in an area providing ventilation and adequate combustion air.
- **3.** Due to high temperatures do not locate this fireplace in high traffic areas or near furniture and draperies.
- **4.** Provide adequate clearances around air openings into the combustion chamber. **NEVER** obstruct the front opening of the fireplace or the flow of combustion and ventilation air.
- **5.** Do not locate in or near an area where gasoline or other flammable liquids may be stored. The fireplace area must be kept clear and free from these combustible materials.

CLEARANCES

MINIMUM CLEARANCES TO COMBUSTIBLES ARE:

*BACK	1/2" MIN.
*ADJACENT WALL	
*CHIMNEY OUTER PIPE SURFACES	2" MIN.
*BOTTOM OF FIREPLACE TO FLOOR	0" MIN.



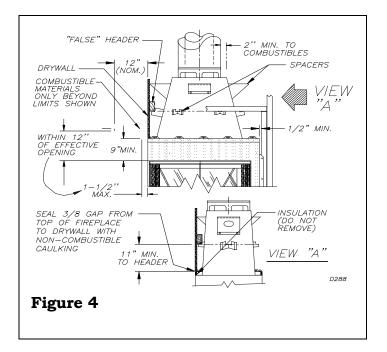
CAUTION: DO NOT BLOCK REQUIRED AIR SPACES WITH INSULATION OR ANY OTHER MATERIAL. DO NOT OBSTRUCT EFFECTIVE OPENING OF FIREPLACE WITH ANY TYPE OF FACING MATERIAL. COMBUSTIBLE MATERIAL MUST NOT BE IN CONTACT WITH THE BLACK FRONT FACE OF THE FIREPLACE.

MANTLE CLEARANCES:

Woodwork, such as wood trims, mantles, and other combustible materials, should not be placed within **9** inches of the **effective opening** of this fireplace.

*The **effective opening** is considered the opening where actual heat output may occur

Combustible material above and projecting more than **1-1/2** inches from the fireplaces' front face (see fig. **4)** should not be placed less than **12** inches from the **effective opening** of the fireplace (ref; NFPA std. 7-3.3.3.)



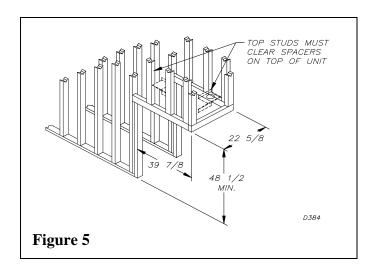
FRAMING

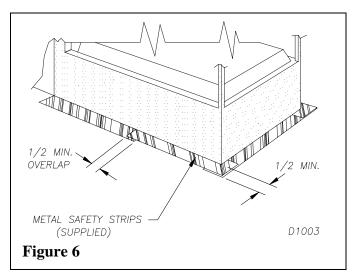
Construct framing using dimensions shown in figures **5**, **7** and **8** depending on your particular installation.

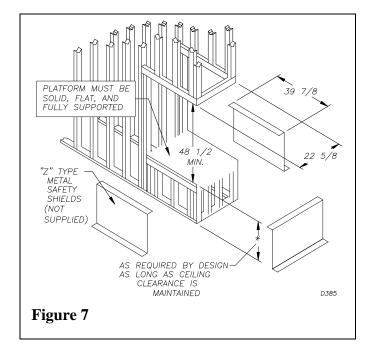
If the fireplace is to be installed directly on carpeting, tile (other than ceramic), or any combustible material other than wood flooring; the fireplace must be installed upon a metal or wood panel extending the full width and depth of the fireplace.

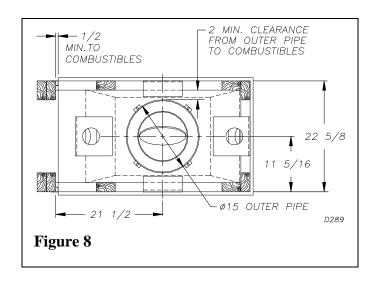
Before securing fireplace to prepared framing, **metal safety strips** (provided) must be placed between **hearth extensions** (not supplied) and bottom front edge of fireplace to protect against glowing embers (figure **6**).

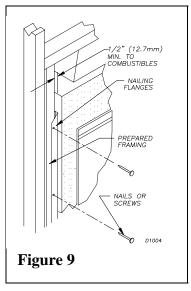
If the fireplace is to be installed on a raised platform, a "**Z-type" metal safety shield** (not supplied) must be fabricated to fit your required platform height (see figure **7**). The shield must be made of (26-28ga) galvanized sheet metal to prevent corrosion.









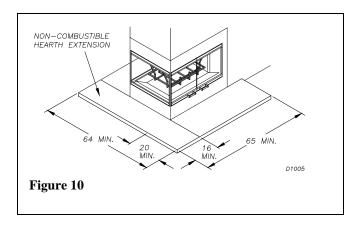


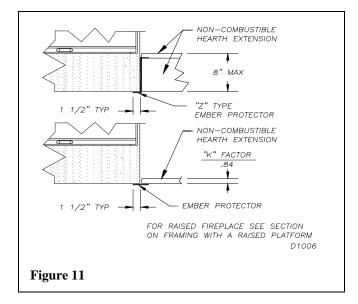
Proceed to secure fireplace to prepared framing at nailing flanges located at the sides of the fireplace as shown in figure 9.

HEARTH EXTENSIONS

A hearth extension is required to protect combustible floor surrounding fireplace. You may obtain kit No. **HE-P36** or you may fabricate your own per the dimensions shown on **figure 10.**

The hearth extension must project 20 in. min. to the front and 12 in. min. beyond each side of the fireplace opening except on the end where projection is 16 in. min. to the front and 20 in to the sides. (See figure 10).





If a hearth extension is to be field constructed, it must be made of non-combustible, inorganic material having an effective thermal conductivity "K" of .84 BTU In/Ft2 Hr.F or less at 1" thickness.

Thermal conductivity "K" of materials can be obtained from the manufacturer.

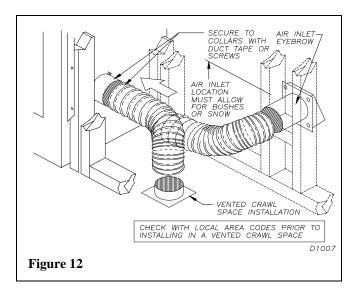
The minimum required thickness for any material could be obtained by the following formula:

$$\frac{\text{K factor}}{84}$$
 x 1" = Thickness required

If the hearth extension is to be raised, a "Z" type metal safety strip must be used, see figure 7 and 11.

OUTSIDE AIR KIT INSTALLATION

The installation of the outside air kit must be installed during the rough framing of the fireplace due to the nature of it's location. Outside combustion air can be accessed through an exterior wall or a vented crawl space (see figure 12).



CAUTION: AIR INLET DUCTS MUST NOT TERMINATE IN ATTIC SPACE.

Avoid installing outside air eyebrow in areas where inlet opening may be blocked by snow, bushes or other obstacles. It should also be located beyond the reach of small children.

The maximum height for the air inlet above platform of fireplace is within 3 feet below the termination flue gas outlet.

For further details on the installation of the outside air kit, please refer to the instructions included with the kit. For operating instructions, please refer to your owner's manual.

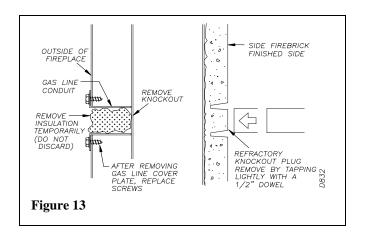
GAS LINE INSTALLATION

YOUR GAS SUPPLIER OR A QUALIFIED SERVICE PERSON SHOULD DO GAS LINE HOOK-UP.

NOTE: BEFORE YOU PROCEED, MAKE SURE YOUR GAS SUPPLY IS **OFF!**

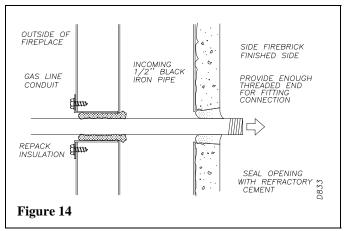
A gas line may be installed for the purpose of installing a **decorative gas appliance** available through your local distributor. Use only ½" black iron pipe and appropriate fittings. When installing a gas line, a shut-off valve designed for installation outside the fireplace is recommended.

STEP 1: To install, remove the knockout indentation on the refractory (or firebrick) wall located approximately 2" above the refractory hearth floor. The knockout indentation must be firmly tapped with any solid object until it is released. Remove fragmented portion of refractory (see figure 13).



STEP 2: Remove gas line cover plate on rear of fireplace and pull out insulation from gas line conduit sleeve, save insulation for reuse.

STEP 3: Run a 1/2" black iron gas line into the fireplace through the rear at 11 1/4" from the floor and through gas line conduit sleeve. Provide sufficient gas line into fireplace chamber for fitting connection (see figure **14**).



NOTE: Secure incoming line to wood framing to provide rigidity for threaded end.

STEP 4: Repack insulation around gas line and into sleeve openings. Seal any gaps between gas line and refractory knock out hole with refractory cement or commercial furnace cement. Install the decorative gas appliance or cap-off gas line if desired.

<u>CAUTION:</u> All gas piping and connections must be tested for leaks after the installation is completed.

After ensuring that the gas valve is on, apply a soap and water solution to all connections and joints. If bubbles appear, leaks can be detected and corrected.

DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED

The gas pipe is intended for connection to a decorative gas appliance only; (1) incorporating an automatic shut-off device and (2) complying with the standard for Decorative Gas Appliances for Installation in Vented Fireplaces, ANSI Z21.60 – 1990. ONLY UNVENTED GAS LOG SETS WHICH HAVE BEEN FOUND TO COMPLY WITH THE STANDARD FOR UNVENTED ROOM HEATERS, ANZI\IAS\AGA Z21.11.2, ARE TO BE INSTALLED IN THIS FIREPLACE.

NOTE: An appropriate FMI hood (as shown in page 13) must be installed when using an unvented gas log set. This appliance shall also be installed in accordance with the National Fuel Gas code, ANSI Z223.1-1988

<u>CAUTION:</u> WHEN USING A DECORATIVE APPLIANCE, THE DAMPER MUST BE REMOVED OR PERMANENTLY LOCKED IN THE OPEN POSITION.

CHIMNEY PIPE INSTALLATION

The FMI chimney system is a snap-lock, double-wall pipe. It consists of a stainless steel inner flue pipe, a galvanized outer pipe, and a wire spacer.

Each section of pipe comes in lengths of 12, 18, 36, and 48 inches but the actual **lineal gain** for each is measured after each section is fully connected.

Lineal gain is the actual measurable length of a part after two or more parts are connected.

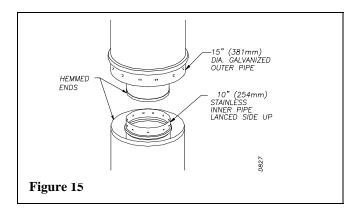
LINEAL GAIN

PART NO.	DESCRIPTION	GAIN (inches)
PN36	PENINSULA FIREPLACE	66 ¼
48-10DM	FLUE PIPE	46 3/8
36-10DM	FLUE PIPE	34 3/8
18-10DM	FLUE PIPE	16 3/8
12-10DM	FLUE PIPE	10 3/8
ETL-10D	CHASE STYLE TEMINATION	7 TO 17
RTL-10D	ROUND TOP TERMINATION	6

PIPE INSTALLATION

Place pipe assembly (inner and outer with wire spacer) over starting collar. Inner pipe fits inside inner pipe, outer pipe fits outside outer pipe.

Begin by aligning **hemmed-end** of inner flue pipe into the inner starting flue pipe of fireplace. Push down until hem "snap-locks" with lances. The outer pipe is just the opposite; female end has the lances. Continue the same procedure for the outer pipe (see figure **15**).



It is important to assure that the joint between the chimney sections is fully locked. Check by pulling chimney upward after locking.

The **chimney should not come apart if properly locked.** It is not necessary to add screws to keep vertical or angled chimney runs together.

WARNING: THE OPENINGS AROUND THE STARTING COLLAR ON TOP OF THE FIREPLACE MUST NEVER BE OBSTRUCTED. NEVER USE BLOWN INSULATION TO FILL THE CHIMNEY ENCLOSURE.

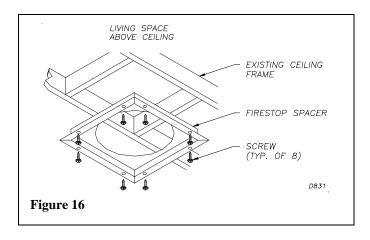
FIREPLACE SPACER

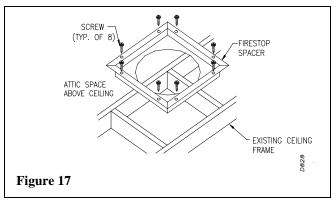
Fireplace spacers are required at each point where the chimney penetrates a floor or ceiling, joist space. Their purpose is twofold; they establish and maintain the required clearance between the outer pipe and combustible materials, and they also serve as a shield between floors as required by most codes.

When penetrating a floor or ceiling at an angle, use firestop spacer no. **30 FS-10DM**, refer to section on accessory items at the end of this manual.

When the pipe passes through a framed opening into a living space above, a firestop must be placed on the ceiling below (figure 16).

When the pipe passes through a framed opening into an attic space above, a firestop must be placed on the attic floor above (figure 17).

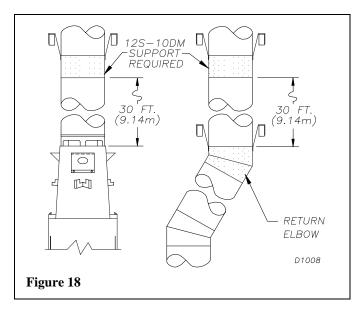




SUPPORT SECTIONS

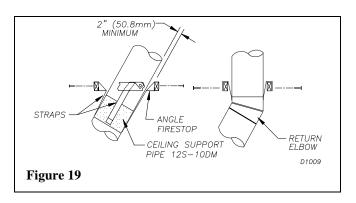
The chimney support section is a 4 strap, 12-inch length of pipe. A chimney support is required every 30 feet above the fireplace after a straight chimney run, or above a return elbow after a straight chimney run (fig. 18).

This support is designed to relieve the extra weight load on the fireplace and elbows when high chimneys are installed.

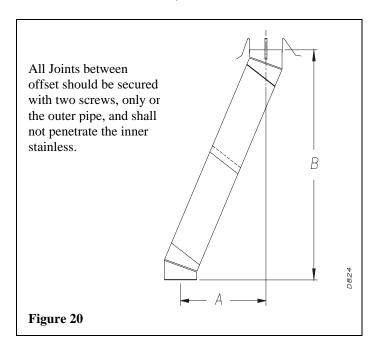


ELBOW OFFSET INSTALLATION

Chimney weight above offset rests on return elbow. Straps must be secured with nails to rafters or joists (see **figure 19**).



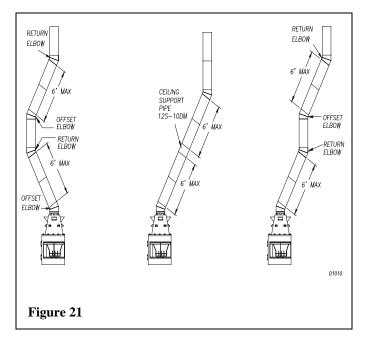
To achieve desired offset, you may install combinations of 12,18,36, or 48 inch lengths of double wall pipe (see **figure 20** and **Rise and Offset Chart**).

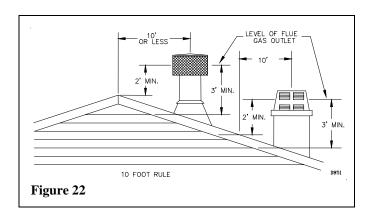


RISE AND OFFSET CHART

A	В	48	36	18	12
4 3/8	16 3/8				
9 1/2	25 1/4				1
12 1/2	30 3/8			1	
14 3/8	34				2
17 5/8	39 1/4			1	1
21 1/2	46		1		
22 3/4	48 1/8			1	2
26 3/8	54 7/8	1			
26 3/8	60		1	1	
31 3/4	63 3/4	1			1
34 3/4	69	1		1	
38 5/8	75 5/8		2		
39 7/8	77 7/8	1		1	1
43 3/4	84 1/2	1	1		
46 3/4	87 3/4		2	1	
48 7/8	93 3/8	2			

Maximum length of pipe between supports is 6 feet of angled run. A maximum of two 6 foot angled run sections per chimney system (see figure 21).





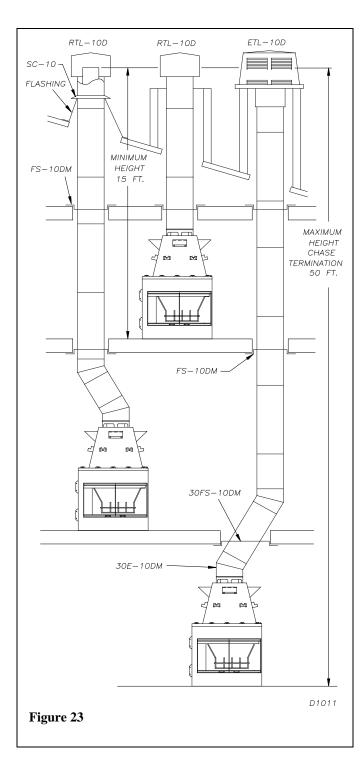
FINISHING YOUR CHIMNEY SYSTEM

10 FOOT RULE

All chimney termination must extend a minimum of 3 feet above the highest point where it passes through the roof and must be at least 2 feet above the roof within a 10 foot horizontal span (see figure 22).

IMPORTANT: If an exposed portion of chimney is greater than 4 feet above the roof line, **use support wires to keep chimney secure.** The support wires may be attached to the outer pipe of the chimney with screws, provided the screws do not penetrate the inner flue pipe.

WARNING: DO NOT OPERATE AN UNVENTED GAS LOG SET IN THIS FIREPLACE WITH THE CHIMNEY REMOVED.



MINIMUM CHIMNEY HEIGHT

The minimum chimney height (measured from bottom of fireplace to flue gas outlet-end of pipe) is **15 feet** for a straight run, **16 feet** min. For a run with **1 elbow sets** (a set consists of one starter elbow and one return elbow).

Uncommon circumstances such as neighboring hills, tall trees, or strong wind areas can cause **downdrafts** in the chimney system. In such cases going beyond the minimum recommended height would be preferable to provide a better **draw**.

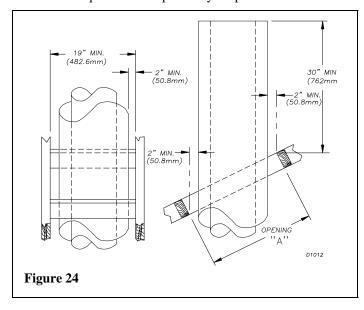
MAXIMUM CHIMNEY HEIGHT

The maximum height approved for any chimney run with this fireplace system is **50 feet** measured from bottom of fireplace to flue outlet-end of pipe.

CHIMNEY MAINTENANCE

Have your chimney system cleaned and inspected regularly to ensure safe and efficient operation. Refer to your Owners Manual for further guidelines on maintenance and operation.

Using figure **24** and the chart below, determine the opening that will be required for the pitch of your particular roof.



ROOF OPENING CHART

	OPENING	USE FLASHING
PITCH	"A"	NO.
FLAT	19	6F10
6/12	23 1/4	6F10
(26.6 DEG. SLOPE)		
12/12	30 ¾	12F10
(45 DEG. SLOPE)		
18/12	40 1/8	18F10
(56.3 DEG. SLOPE)		
24/12	50 1/4	24F10
(63.4 DEG. SLOPE)		

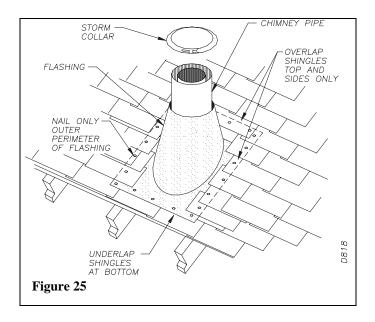
Before cutting hole, temporarily remove shingles around area to be opened. After preparing the opening on the roof, continue to add sections of pipe until it extends a minimum of 30 inches above highest point of roof cut-out (see figure 24).

With the termination the minimum height should add up 3 feet (see 10-foot rule and figure 22).

FLASHING INSTALLATION

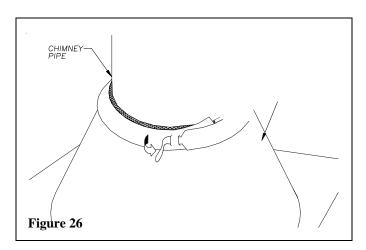
Determine the flashing to be used with the roof-opening chart. Slide flashing over pipe until base is flat against roof. Replace as many shingles as needed to cover exposed area and flashing base. Secure in position by nailing through shingles.

DO NOT NAIL THROUGH FLASHING CONE.



STORM COLLAR INSTALLATION

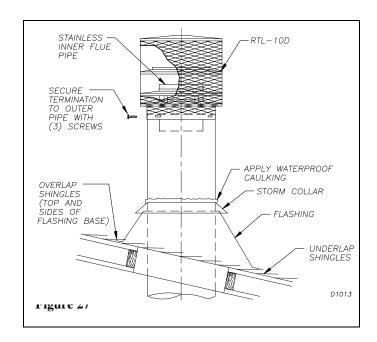
Place storm collar over pipe and slide down until snug against the open edge of the flashing (see **figure 26**).



Apply **waterproof caulking** to all seams and notched around storm collar and also at base around shingles.

TERMINATIONS

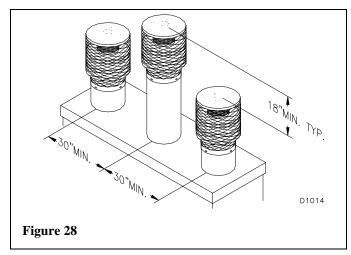
The fireplace system must be terminated with the listed round top or chase terminations. Refer to the installation instructions supplied with the termination. The terminations approved for this fireplace are **RTL-10D**, which can be used for flashing or chase and **ETL-10D** for chase style termination only. Figure **27** shows an RTL-10D round top termination.



CAUTION: DO NOT SEAL OPENINGS ON THE ROOF-TOP FLASHING. FOLLOW THE INSTALLATION IN-STRUCTIONS PROVIDED WITH THE TERMINATION BEING USED.

CHASE INSTALLATIONS

Instructions for chase installations are included with the chase style termination chosen although it is worthy to mention here that in a multiple chase installation, provide adequate distance between termination's or smoke spillage from one termination to another may occur. We suggest they be separated at least 30" center to center and stacked at a vertical height difference of 18" vertically from one termination to the other (see figure 28).



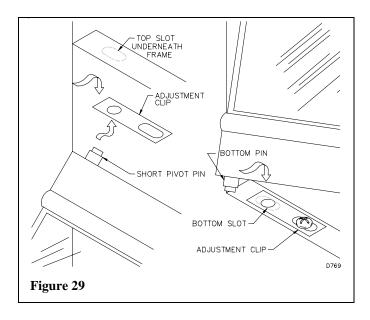
FINISHING YOUR FIREPLACE

CABINET DOOR INSTALLATION

Glass doors have been provided with this fireplace. A set includes the front glass panel assembly. They come in different styles, check with your local distributor for availability and options.

To install doors and front panel, simply insert top door pin(s) up into hole(s) on top frame, and insert bottom pin (D) into hole(S) on bottom frame until door is fully seated.

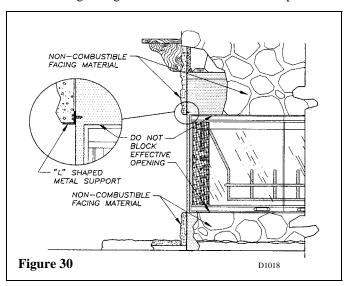
No alignments or adjustments are necessary (see fig. 29).



FIREPLACE FACING

Any non-combustible material may be used for facing (glass, title, brick, etc.) as long as the proper clearances are adhered to (refer to section on clearances) and the fireplace opening are not blocked or obstructed in any way (see fig. 30).

Use only heat resistant, non-combustible mortar or adhesive when securing facing material to the front of the fireplace.

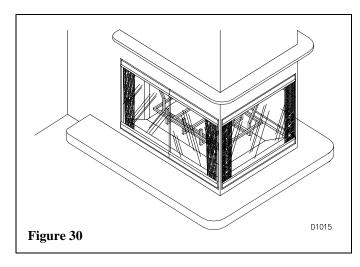


When placing facing at the upper edge of the effective opening of the fireplace, provide an "L" shaped piece of metal extending the full width of the opening.

Secure with sheet metal screws at a distance high enough from the edge as to not interfere with the operation of doors. This assures that the facing material, in time, should not block the opening if it where to lose cohesion.

FLASHING MANTLES:

Mantles, combustible or non-combustible, may be constructed (see below) as long as the proper clearances are observed. Refer to page 2 for clearances.

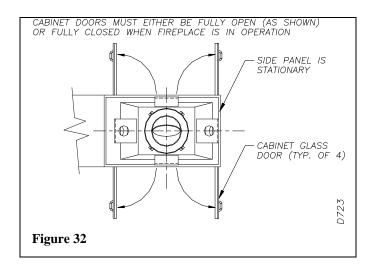


OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS

GLASS DOORS

Only the cabinet type doors can be opened, the front glass panel assembly is stationary and must be installed with doors.

When fireplace is in operation, both sets of cabinet doors on each side of fireplace, must be in the **FULLY OPEN** or **FULLY CLOSED** position only or a fire hazard may be created (see **figure 32**).



DAMPER MECHANISM

The damper control lever is located inside the fire chamber (see **figure 33**). Make sure lever is cool before handling. **Pull down to <u>CLOSE</u>**, **push up to <u>OPEN</u>**. The damper must be open when lighting a fire; not doing so will cause smoke spillage into the room.

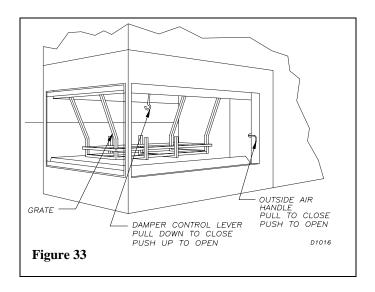
When the fireplace is not in use, close the damper to prevent downdrafts to enter room.

The damper mechanism should be per the following figure.

OUTSIDE AIR MECHANISM

The outside air handle is located at the right hand side of the fireplace rear refractor (fig. 33). Pull to close, push to open, Always open the mechanism when starting a fire, this provides adequate outside combustion air. Close the mechanism when not in use to prevent cold air from entering the room.

Periodically check your outside air intake vent hood for any possible obstructions (snow, bushes, etc.).



GRATE

The grate is designed to provide you with the maximum solid fuel capacity, do not attempt to defeat its purpose, doing so may cause smoke spillage and may cause a fire hazard.

Do not overload the grate or obstruct the required air space beneath it. Always keep ashes from building up under the grate.

WARNING: RISK OF FIRE! REPLACE GRATE WITH FMI MODEL 36PN GR GRATE ONLY.

Never obstruct the flow of combustion and ventilation air. Keep the front of the fireplace clear of all obstacles and materials.

WARNING:

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND TO STAY AWAY FROM THESE TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SU-PERVISED WHEN THEY ARE IN THE SAME ROOM AS THE FIREPLACE.

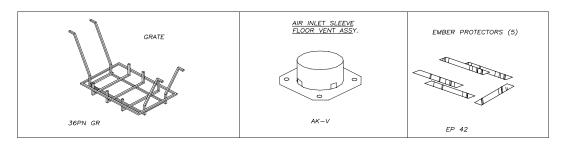
FOR FURTHER OPERATING GUIDELINES, INSTRUCTIONS AND WARRANTY INFORMATION PLEASE REFER TO YOUR OWNERS' MANUAL OR CONTACT YOUR AUTHORIZED DEALER.

REPLACEMENT AND ACCESSORY PARTS

- * When ordering replacement or accessory items, please have your fireplace's model name or number and the part number of the item(s) you are ordering ready.
- * The model name or number of your fireplace may be found on the rating plate located inside the fireplace (see figure 1).
- *Refer to the parts list and diagrams when ordering replacement parts for your fireplace.
- * Repair parts or accessory items may be bought from your distributor/dealer or directly from FMI.
- *All product specifications are subject to change without notice.

NOTE: USE OF ANY OTHER GLASS DOOR ASSEMBLY NOT TESTED WITH THIS FIREPLACE MAY CONSTITUTE A FIRE HAZARD AND WILL VOID THE FMI WARRANTY.

REPLACEMENT PARTS



ACCESSORY PARTS

