



Heatilator Inc.
1915 W. Saunders Street
Mt. Pleasant, IA 52641
Division, HON INDUSTRIES

FL92A HA112A ST36B ST36C INSTALLATION & OPERATING INSTRUCTIONS FOR RESIDENTIAL USE

I. LISTINGS AND CODE APPROVALS

These fireplace systems have been tested in accordance with Underwriters Laboratories Inc. Standards, and have been LISTED by them for installation and operation as described in these Instructions and in the Operating Instructions accompanying each fireplace.

Fireplace Catalog Numbers FL92A, HA112A, ST36B and ST36C have been tested and LISTED for use with the Optional Components described in Section II of these Instructions. These Optional Components may be purchased separately and installed either at the time of initial installation or at some later date. However, installation of the Fan Kit and Junction Box Kit (ST36C only) and Outside Air Kit will require significant reconstruction, and should be installed at the time of initial installation.

Check with your local building code agency before you begin installation to ensure compliance with local codes, including the need for "permits" and follow-up inspections. If any problems are encountered regarding code approvals, or if you wish clarification of any of the instructions contained here, contact: Customer Relations Department, Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641. HEATILATOR® is a registered trademark of Heatilator Inc., Division, HON INDUSTRIES.

WARNING

THIS HEATILATOR FIREPLACE AND ITS COMPONENTS ARE DESIGNED TO BE INSTALLED AND OPERATED AS A SYSTEM. ANY ALTERATION TO OR SUBSTITUTION FOR ITEMS IN THIS SYSTEM UNLESS ALLOWED BY THESE INSTALLATION INSTRUCTIONS WILL VOID THE UNDERWRITERS LABORATORIES LISTING AND MAY VOID THE PRODUCT WARRANTY. IT MAY ALSO CREATE A HAZARDOUS INSTALLATION. READ THROUGH THESE INSTRUCTIONS THOROUGHLY PRIOR TO STARTING YOUR INSTALLATION AND FOLLOW THEM CAREFULLY THROUGHOUT YOUR PROJECT.

II. DESCRIPTION OF THE FIREPLACE SYSTEM

The HEATILATOR® fireplace system consists of the following:

1. Fireplace
2. Hearth Extension
3. Outside Combustion Air System
4. Chimney System
5. Roof Termination

Optional components include:

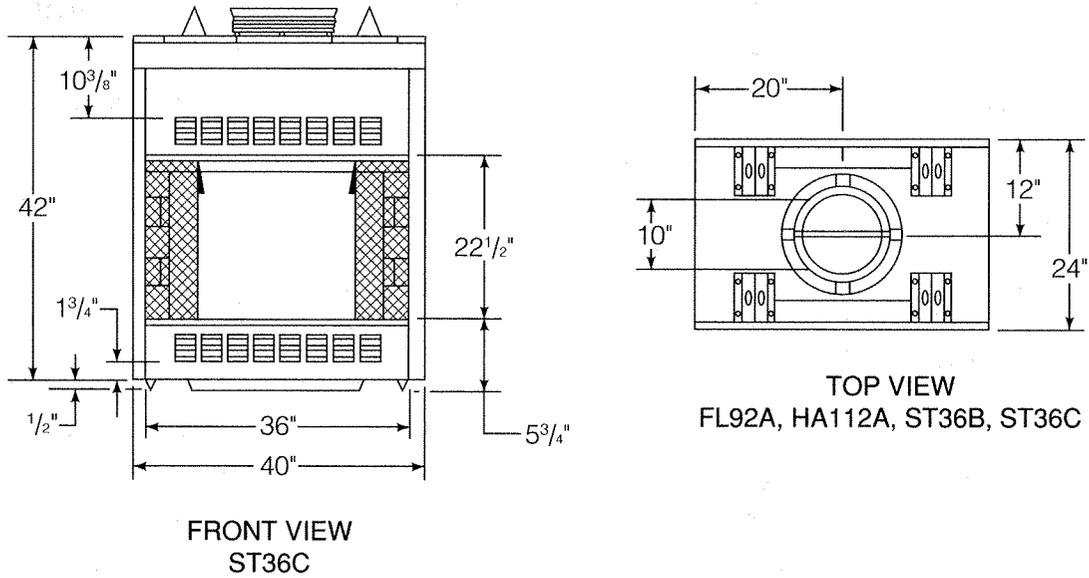
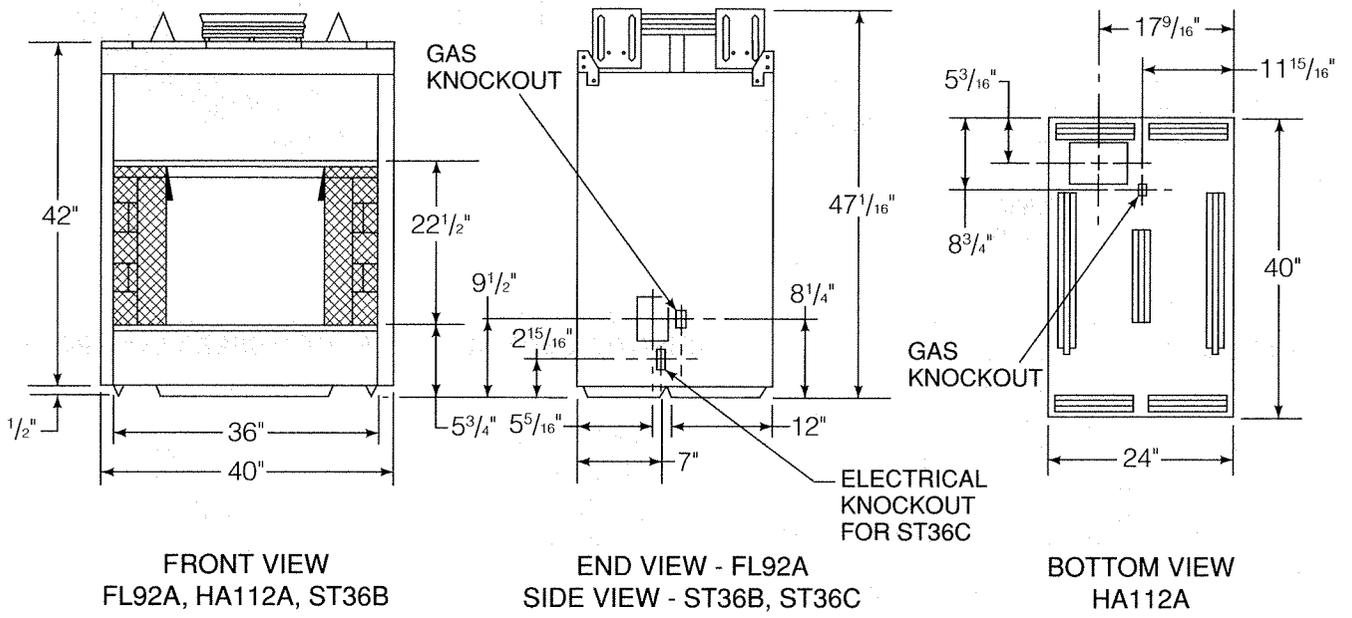
1. Glass Doors (ST36B or ST36C only)
2. Solid Brass Trim Kit
3. Fan Kits (ST36C only)

THE FIREPLACE SYSTEM COMPONENTS

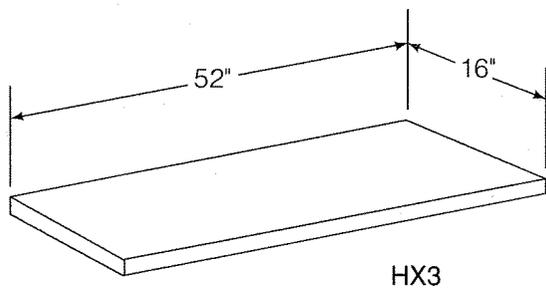
The table below, together with the following pictures, show only those components which may be safely used with these fireplaces.

Catalog Number	Description
FL92A	Peninsula Fireplace
HA112A	Island Fireplace
ST36B	See-Thru Non-Circulating Fireplace
ST36C	See-Thru Circulating Fireplace
HX3	Hearth Extension (Qty. Required - 3 for FL92A, 4 for HA112A, 2 for ST36B & ST36C)
GD36A	Glass Doors - Clear-View, Antique Solid Brass for ST36B & ST36C
GD36B	Glass Doors - Clear View, Bright Solid Brass for ST36B & ST36C
GA36A	Glass Doors - Clear-View, Antique Solid Brass for ST36B & ST36C
GA36B	Glass Doors - Clear-View, Bright Solid Brass for ST36B & ST36C
C1136A	Classic Bifold Glass Doors - Brushed Brass Finish
C1136B	Classic Bifold Glass Doors - Polished Brass Finish
C1136C	Classic Bifold Glass Doors - Chrome Finish
C2136A	Classic Cabinet Glass Doors - Brushed Brass Finish
C2136B	Classic Cabinet Glass Doors - Polished Brass Finish
C2136C	Classic Cabinet Glass Doors - Chrome Finish
C1000A	Classic Fixed End Panel - Brushed Brass Finish for FL92A & HA112A
C1000B	Classic Fixed End Panel - Polished Brass Finish for FL92A & HA112A
C1000C	Classic Fixed End Panel - Chrome Finish for FL92A & HA112A
D1136B	Designer Series Bifold Glass Doors - Polished Brass Finish
D2136B	Designer Series Cabinet Glass Doors - Polished Brass Finish
TK53A	Antique Brass Front Trim Kit for ST36B & ST36C
TK53B	Polished Brass Front Trim Kit for FL92A, HA112A, ST36B & ST36C
TK54B	Polished Brass End Trim Kit for FL92A & HA112A
FK1	Fan Kit (Raceway and Single Fan) for ST36C
FK2	Fan Kit (Single Fan) for ST36C
JK1	Junction Box Kit for ST36C
BC10	Motor Speed Control Kit for ST36C
AK17	Outside Air Kit for HA112A
AK18	Outside Air Kit for FL92A, ST36B, ST36C
ID4	Insulated Duct/Outside Air
UD4	Uninsulated Duct/Outside Air
SL406	Chimney Section - 6 inch long
SL412	Chimney Section - 12 inch long
SL418	Chimney Section - 18 inch long
SL436	Chimney Section - 36 inch long
SL448	Chimney Section - 48 inch long
SL4	Chimney Stabilizer
SL430	Chimney Offset/Return - 30°
FS538	Firestop - Straight
FS540	Firestop - 30°
JB577	Chimney Joint Band
CB576	Chimney Bracket
RF570	Roof Flashing - Flat to 6/12 Pitch
RF571	Roof Flashing - 6/12 to 12/12 Pitch
RT492	Telescoping Chimney Terminal Cap - Round
RT494	Chimney Terminal Cap - Round
ST475	Chimney Terminal Cap - Square
ST476	Telescoping Chimney Terminal Cap - Square
CT56	Chase Top

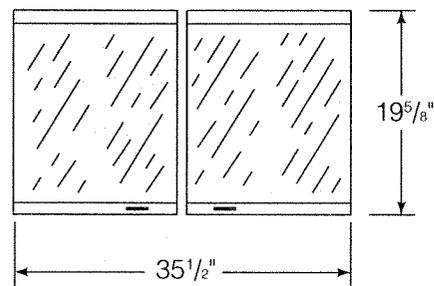
FL92A, HA112A, ST36B & ST36C FIREPLACES



HEARTH EXTENSIONS

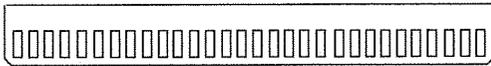


GLASS DOORS FOR ST36B & ST36C

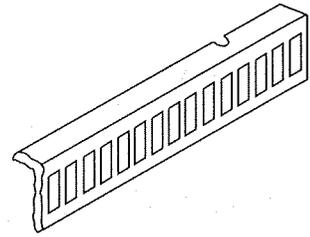
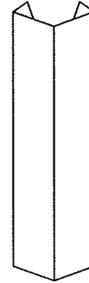


GA36A
GA36B

TRIM KITS

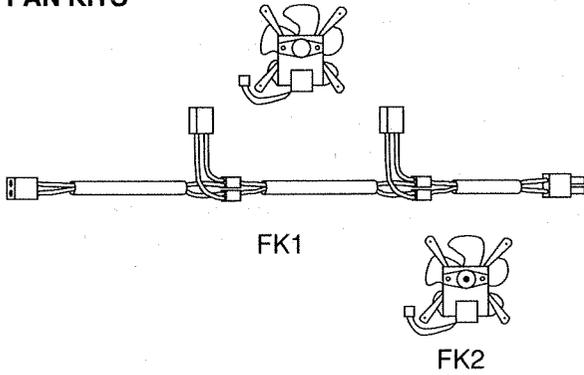


TK53A
TK53B



TK54B

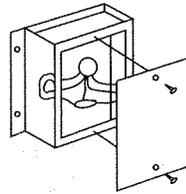
FAN KITS



FK1

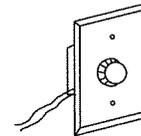
FK2

JUNCTION BOX KIT



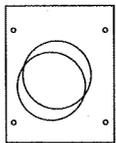
JK1

MOTOR SPEED CONTROL KIT

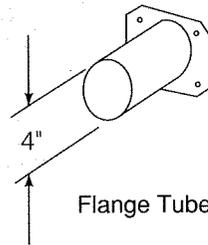


BC10

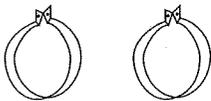
AIR KITS



Fireplace
Duct
Connector

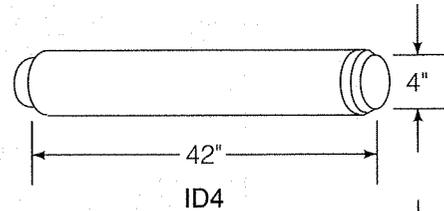


Flange Tube

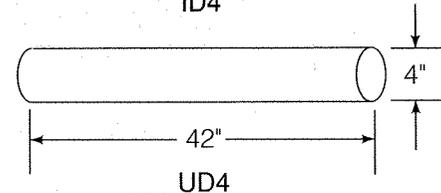


Clamp Bands

AK17
AK18

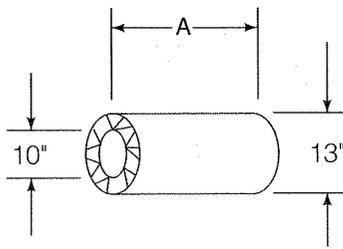


ID4



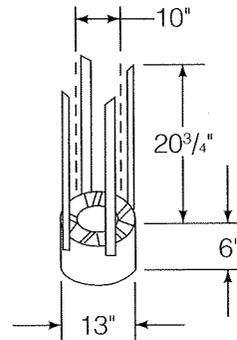
UD4

CHIMNEY SECTIONS



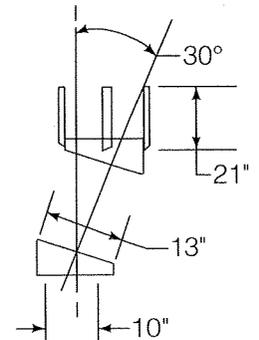
CAT. NO.	A
SL406	6"
SL412	12"
SL418	18"
SL436	36"
SL448	48"

CHIMNEY STABILIZER



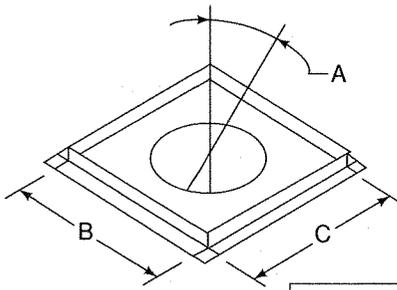
SL4

OFFSET/RETURN



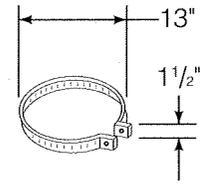
SL430

FIRESTOP SPACERS



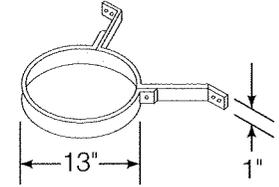
CAT. NO.	A	B	C
FS538	0°	17"	17"
FS540	30°	26"	17"

JOINT BAND



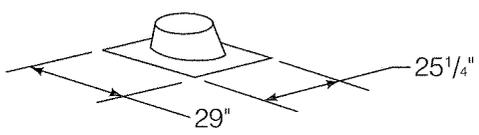
JB577

CHIMNEY BRACKET

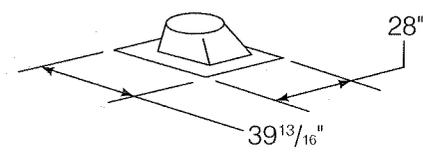


CB576

ROOF FLASHINGS

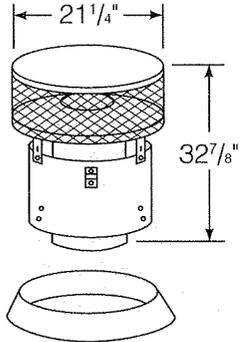


Flat to 6/12 Pitch
RF570

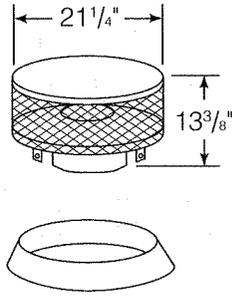


6/12 to 12/12 Pitch
RF571

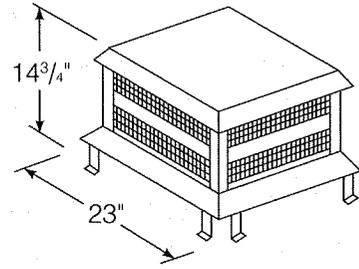
CHIMNEY TERMINAL CAPS



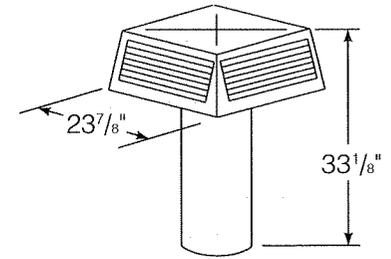
RT492
ROUND
TERMINAL CAP



RT494
ROUND
TERMINAL CAP

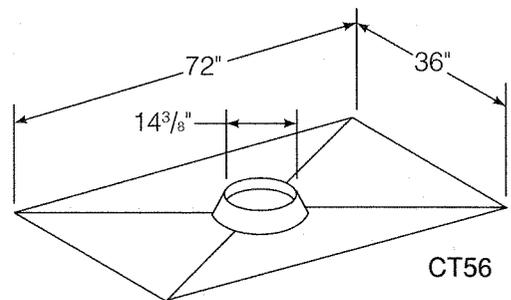


ST475
SQUARE
TERMINAL CAP



ST476
SQUARE
TERMINAL CAP

CHASE TOP



CT56

III. FIREPLACE LOCATIONS, SPACE AND CONSTRUCTION REQUIREMENTS

The fireplace may be located as shown in Figure 1 depending on your unit.

Figure 1 shows the minimum distance to combustible surfaces for side walls and for walls facing the open front of the fireplace, as well as minimum Hearth Extension dimensions.

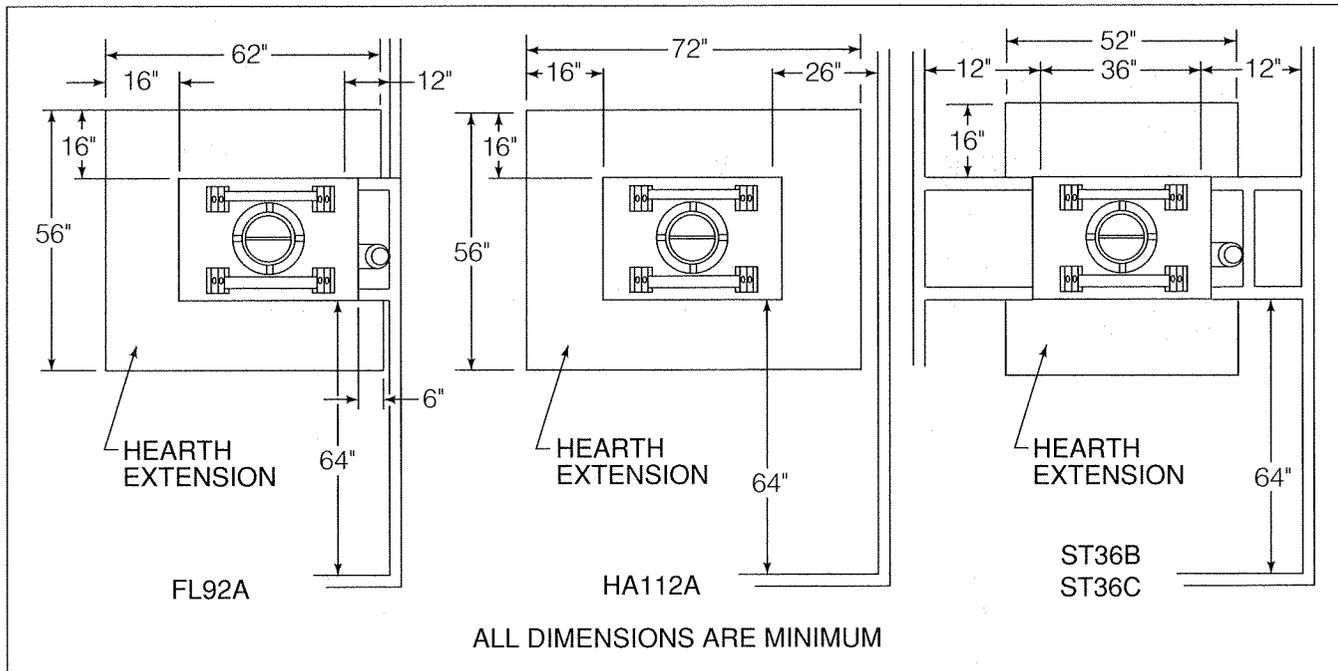


Figure 1
Fireplace Location

WARNING

WHEN LOCATING THE FIREPLACE IN A SPACE PROJECTING INTO A GARAGE, THE OUTSIDE AIR MUST NOT BE TAKEN FROM THE GARAGE SPACE. EXHAUST PRODUCTS OF GASOLINE ENGINES ARE HAZARDOUS.

DO NOT INSTALL OUTSIDE AIR DUCTS SUCH THAT THE AIR MAY BE DRAWN FROM ATTIC SPACES, BASEMENTS, OR ABOVE THE ROOFING WHERE OTHER HEATING APPLIANCES OR FANS AND CHIMNEYS EXHAUST OR UTILIZE AIR. THESE PRECAUTIONS WILL REDUCE THE POSSIBILITY FOR SMOKING OR FLOW REVERSAL.

Figure 2 shows a typical framing of the fireplace, assuming combustible materials are used. All required clearances to combustibles around the fireplace must be adhered to. Any enclosure on top of the fireplace must be above the top standoffs. Chimney Sections at any level require a minimum air space of two inches to the enclosure, including any framing, for the total chimney height.

NOTE: Two inches minimum air space clearance must be maintained around the chimney. If a 2 x 4 top header is used, it may require notching to maintain this clearance. See Figure 2.

WARNING

TO PREVENT CONTACT WITH SAGGING OR LOOSE INSULATION, THE FIREPLACE MUST NOT BE INSTALLED AGAINST VAPOR BARRIERS OR EXPOSED INSULATION. LOCALIZED OVERHEATING COULD OCCUR AND A FIRE COULD RESULT.

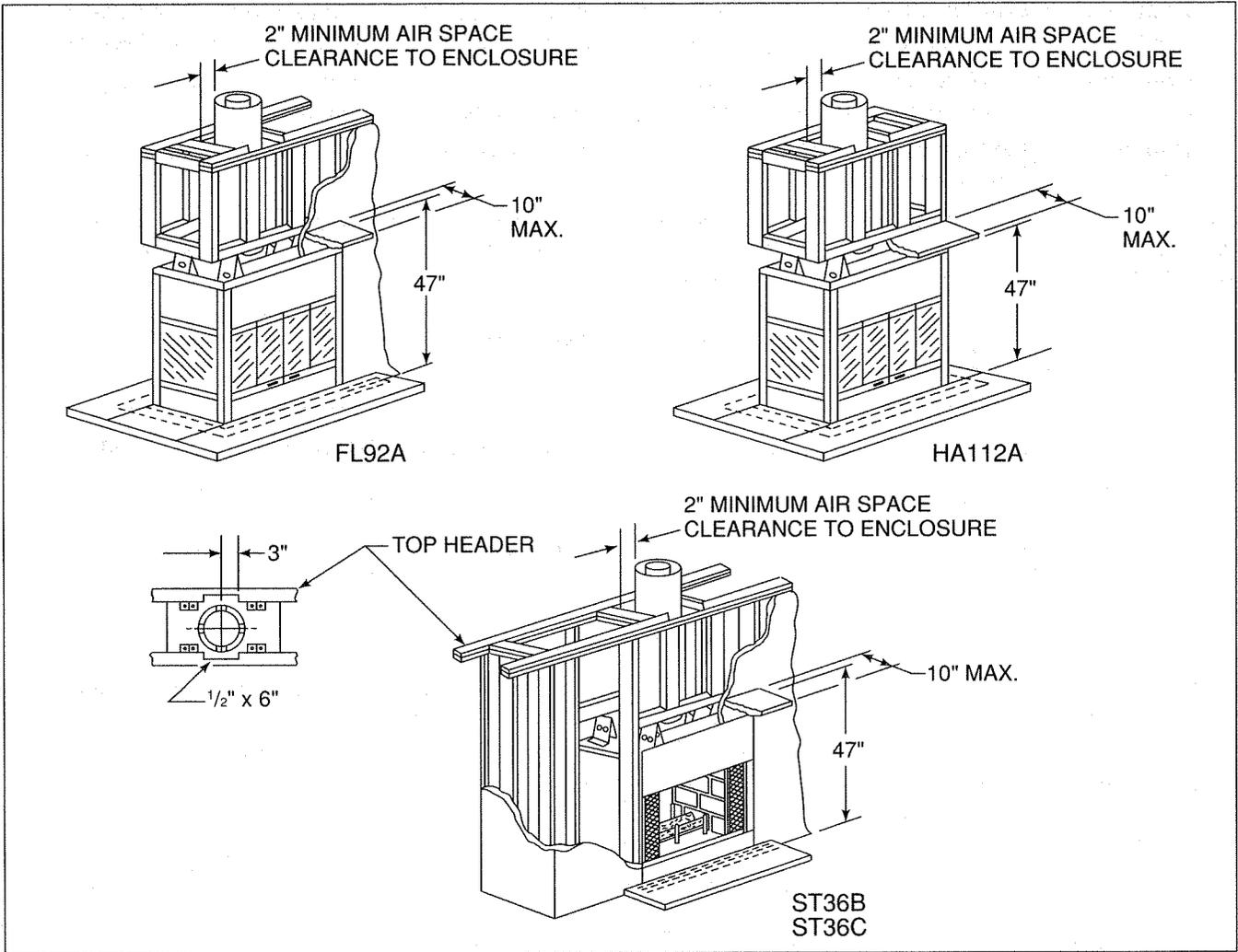


Figure 2
Framing the Fireplace

After completing the framing and after applying the facing material over the framing, see Figure 3, a non-combustible sealant, one-half inch wide maximum, must be used to close off any gaps at the top and sides between the fireplace and facing, to prevent cold air leaks. A mantel of combustible material may be installed no less than 47 inches above the platform or floor upon which the fireplace is located. The mantel may extend no more than 10 inches from the wall.

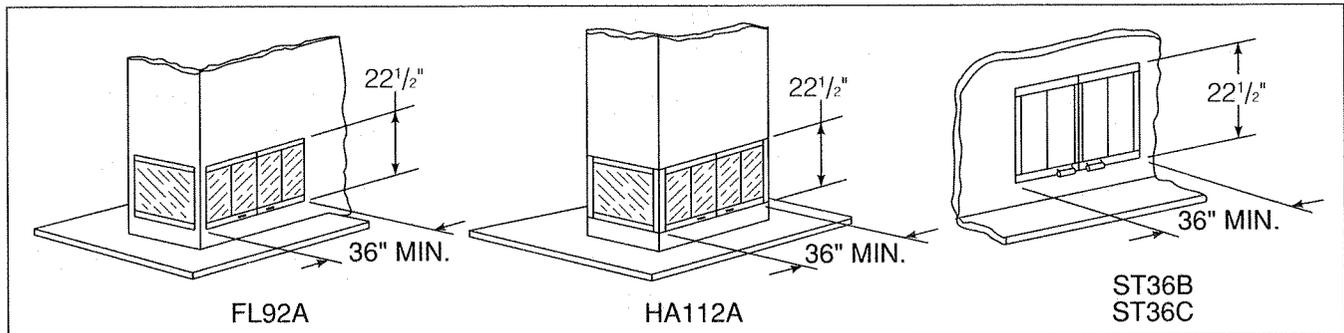


Figure 3
Non-combustible Facing

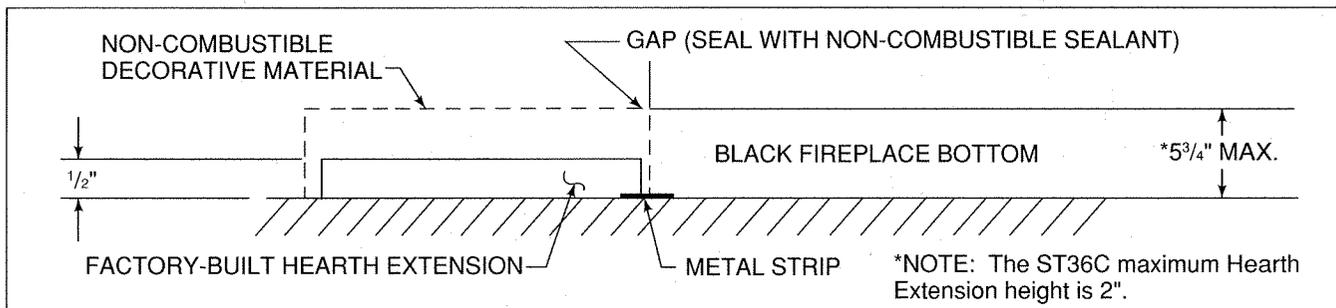
Non-combustible materials may be used to cover the black fireplace front, but must not restrict the air flow to or from the front of the unit in any manner. The following is a description of materials specified in these Instructions:

Combustible Material. Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that will ignite and burn, whether flameproofed or not, or whether plastered or unplastered.

Non-combustible Material. Material which will not ignite and burn, such materials consisting entirely of steel, iron, brick, tile, concrete, slate, asbestos, glass or plasters, or combination thereof.

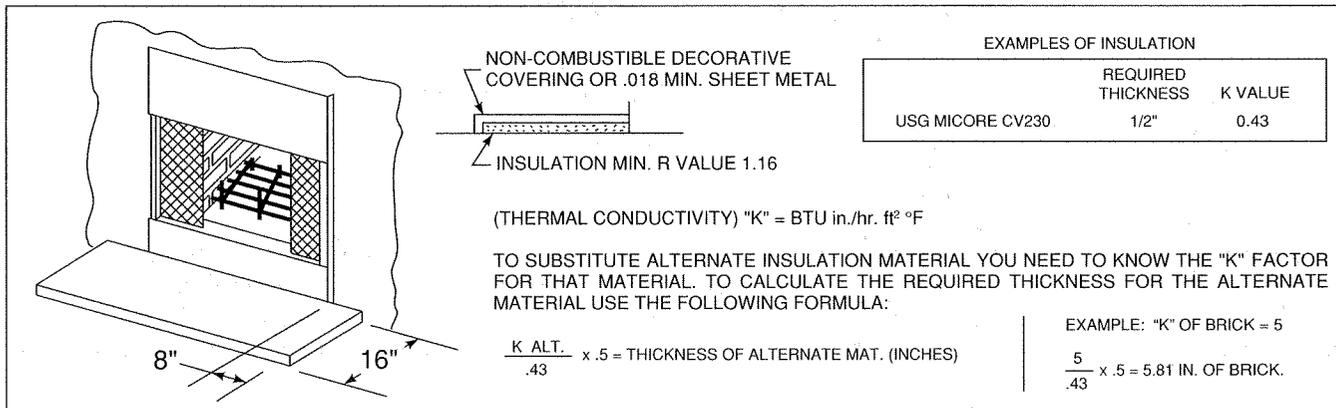
Non-combustible Sealant Material. General Electric RTV103 (Black), or equivalent. Rutland, Inc. Fireplace Mortar #63, or equivalent.

The use of factory-built Hearth Extensions is shown in Figure 4. These may be covered with a non-combustible decorative material with a maximum thickness of 5 1/4 inches. Seal gaps with non-combustible (sand-cement) grout. The ST36C may have a maximum thickness of only 1 1/2".



Field constructed Hearth Extensions may be used, but must be constructed in accordance with the following instructions. In all cases of field construction, the Hearth Extension must maintain at least the minimum dimensions shown in Figure 1. The field constructed Hearth Extension must also conform to the dimensions given in Figure 5.

NOTE: Do not cover any air grilles with a raised Hearth Extension.



The construction illustrated in Figure 5 may require that the fireplace or Hearth Extension be raised on a platform. A metal strip must be used between the fireplace and the field constructed Hearth Extension. Depending on the construction, a special () shape may be needed. Each horizontal leg must be 2" wide and the length must be at least equal to the length of the Metal Strip provided with each fireplace. The fireplace must rest on a continuous, level surface.

WARNING

HEARTH EXTENSIONS ARE TO BE INSTALLED ONLY AS ILLUSTRATED TO PREVENT HIGH TEMPERATURES FROM OCCURRING ON CONCEALED COMBUSTIBLE MATERIALS. METAL STRIPS PREVENT BURNING OR HOT PARTICLES FROM INADVERTENTLY FALLING DIRECTLY ON COMBUSTIBLE SURFACES IN THE EVENT THE BUILDING SHOULD SETTLE AND DISTURB THE ORIGINAL CONSTRUCTION.

When planning your fireplace location, the chimney construction and necessary clearance must be considered. Figure 6 illustrates a typical one floor with attic space installation in which joists and rafters may require modification. The fireplace system and chimney components have been tested to provide the following flexibility in construction.

Minimum straight height	14 ft.
Minimum height with Offset/Return	16 ft. 2 in.
Maximum height	90 ft.
Maximum chimney length between an Offset/Return	8 ft.
Maximum distance between Chimney Stabilizers	35 ft.
Double Offset/Return minimum height	20 ft.
Maximum unsupported chimney length between Offset/Return	6 ft.
Maximum straight unsupported chimney height above firebox	25 ft.

Joint Bands must be used at every joint between an Offset and Return.

Figure 7 illustrates only two of many possible locations for Outside Combustion Air - a basement fireplace with a maximum vertical height, and a direct exit from the fireplace side. Also shown is how Outside Air on the HA112A fireplace can be located.

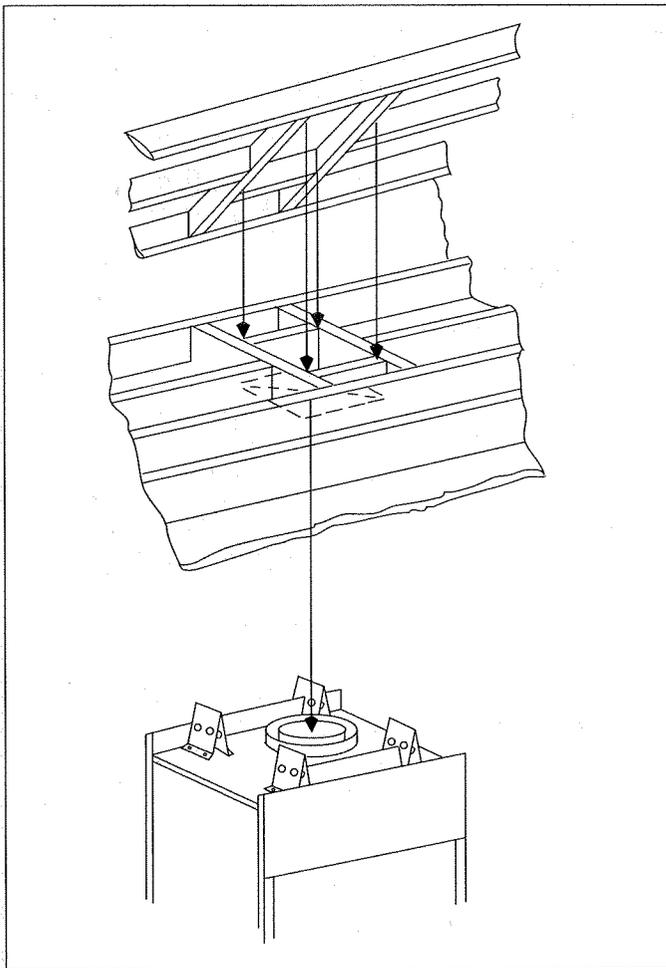


Figure 6
Ceiling and Attic Construction

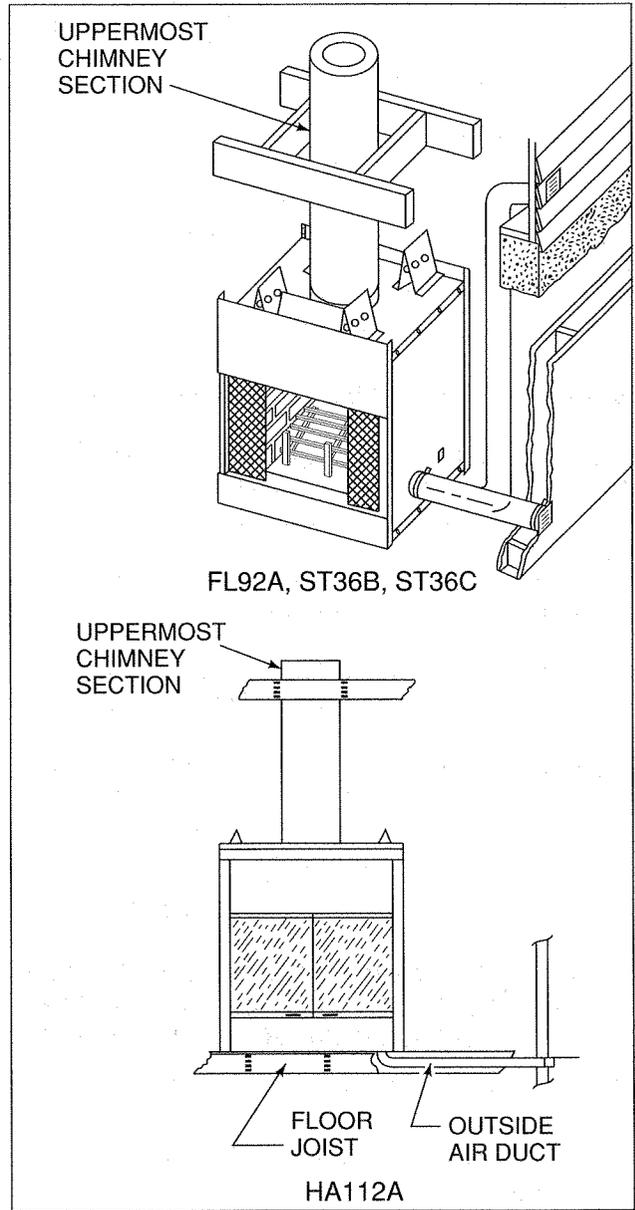


Figure 7
Outside Locations

Major building codes specify a minimum chimney height above the roof top. These specifications are summarized in what is known as the "Ten Foot Rule". This rule states:

1. If the horizontal distance from the side of the chimney to the peak of the roof is 10 feet or less, the top of the chimney must be at least 2 feet above the peak of the roof, but never less than 3 feet in height above the highest point where it passes through the roof. See Figure 8.

- If the horizontal distance from the side of the chimney to the peak of the roof is more than 10 feet, a chimney height reference point is established on the surface of the roof a distance of 10 feet from the side of the chimney in a horizontal plane. The top of the chimney must be at least 2 feet above this reference point, but never less than 3 feet in height above the highest point where it passes through the roof. See Figure 9.

These chimney heights are necessary in the interest of safety and do not assure smoke-free operation. Trees, buildings, adjoining roof lines, adverse wind conditions, etc., may require a taller chimney should smoking occur.

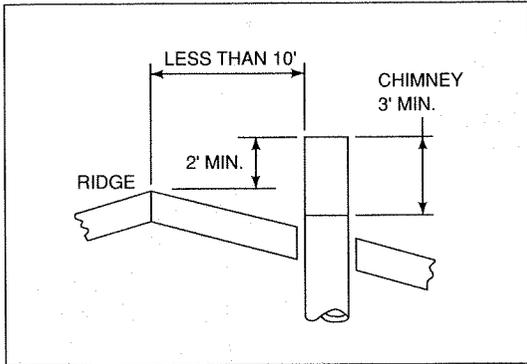


Figure 8
Chimney Height

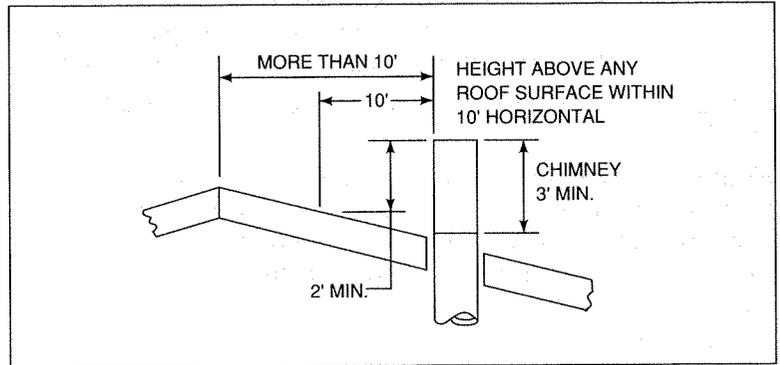


Figure 9
Chimney Height

SELECTING THE CHIMNEY COMPONENTS

Figure 10 illustrates the height from the bottom of the fireplace to the top of the Chimney Adapter. Proper assembly of Air Cooled Chimney Sections results in an overlap at chimney joints of 1 1/4".

Figure 11 and Table 1 enable selection of the appropriate chimney components when using Offsets and Returns.

- Determine amount of offset required to extend the chimney through a wall or around an obstacle. See Figure 11, dimension "A".
- Refer to the following 30° offset chart and find the "A" dimension closest to but not less than the amount of offset required in your installation.

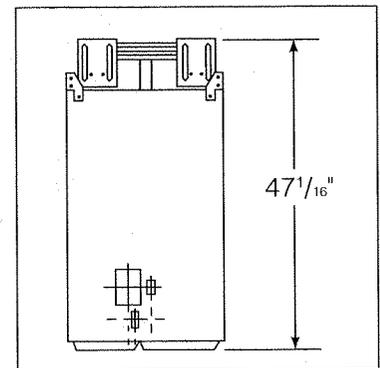


Figure 10
Fireplace (Side View)

WARNING

DO NOT COMBINE OFFSETS TO CREATE AN OFFSET GREATER THAN 30° FROM VERTICAL. THIS MAY CREATE A FIRE HAZARD SINCE THE NATURAL DRAFT MAY BE RESTRICTED.

- Find the "B" dimension on the chart and determine if it is compatible with your installation.
- Read across the chart and find the Catalog Number and number of Chimney Sections required.
- Refer to the Step-By-Step Installation Instructions following the chart.
- All joist areas must be Firestopped.

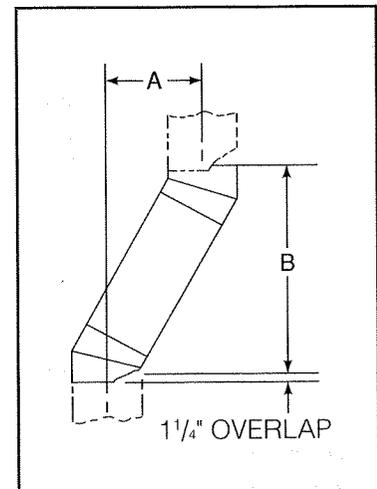


Figure 11
Chimney Offset/Return

TABLE 1
30° Offset Chart (Dimensions in Inches)

A	B	SL406	SL412	SL418	SL436	SL448
3 ⁷ / ₈	14 ⁷ / ₁₆	—	—	—	—	—
6 ¹ / ₄	18 ⁹ / ₁₆	1	—	—	—	—
9 ¹ / ₄	23 ³ / ₄	—	1	—	—	—
12 ¹ / ₄	28 ¹⁵ / ₁₆	—	—	1	—	—
14 ⁵ / ₈	33 ¹ / ₁₆	—	2	—	—	—
17 ⁵ / ₈	38 ¹ / ₄	—	1	1	—	—
21 ¹ / ₄	44 ⁹ / ₁₆	—	—	—	1	—
23 ⁵ / ₈	48 ¹¹ / ₁₆	1	—	—	1	—
27 ¹ / ₄	55 ³ / ₄	—	—	—	—	1
29 ⁵ / ₈	59 ¹ / ₁₆	1	—	—	—	1
32 ⁵ / ₈	64 ¹ / ₄	—	1	—	—	1
35 ⁵ / ₈	69 ⁷ / ₁₆	—	—	1	—	1
38	73 ⁹ / ₁₆	—	2	—	—	1
41	78 ³ / ₄	—	1	1	—	1
44 ⁵ / ₈	85 ¹ / ₁₆	—	—	—	1	1
47	89 ¹ / ₈	1	—	—	1	1
50 ⁵ / ₈	95 ⁷ / ₁₆	—	—	—	—	2

IV. STEP-BY-STEP INSTALLATION OF THE FIREPLACE SYSTEM

WARNING

BEFORE STARTING, DO THE FOLLOWING:

- 1. WEAR GLOVES AND SAFETY GLASSES FOR PROTECTION.**
- 2. KEEP HAND TOOLS IN GOOD CONDITION. SHARPEN CUTTING EDGES AND MAKE SURE TOOL HANDLES ARE SECURE.**
- 3. ALWAYS MAINTAIN THE MINIMUM AIR SPACE REQUIRED TO THE ENCLOSURE TO PREVENT FIRE.**

STEP 1

Position the fireplace and nail wood blocks along the sides to prevent the fireplace from shifting (blocks must be removed later).

STEP 2

Slide the metal strip two inches under the front edge and bottom standoffs of the fireplace. See Figure 2. When the metal strip is not provided as a single piece, then the individual pieces must overlap each other approximately one inch.

STEP 3

Level the fireplace side-to-side and front-to-back. Shim with non-combustible material as necessary.

STEP 4

Assemble either a straight Pipe Section or an Offset to the fireplace. Always secure all Offsets with the screws provided. See Figure 12.

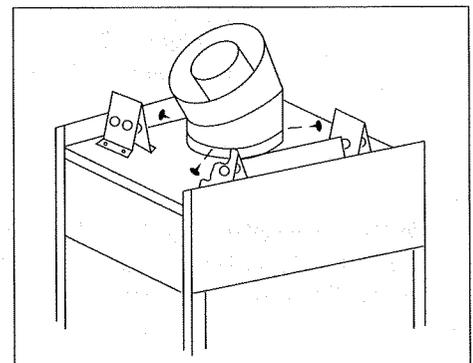


Figure 12
Offset Secured to Fireplace

WARNING

FOLLOW THE INSTRUCTIONS FOR ASSEMBLY OF THE PIPE AND OTHER PARTS, WHICH ARE PACKED WITH EVERY PIPE SECTION AND ALL OTHER COMPONENTS NEEDED TO INSTALL THIS FIREPLACE SYSTEM. FAILURE TO DO SO MAY RESULT IN A FIRE, ESPECIALLY IF COMBUSTIBLES ARE TOO CLOSE TO THE FIREPLACE OR CHIMNEY AND AIR SPACES ARE BLOCKED PREVENTING THE FREE MOVEMENT OF COOLING AIR.

□ STEP 5

Mark and cut out an opening in the ceiling for the particular Firestop Spacer being utilized. Frame the opening with the same size lumber used in the ceiling joists. See Chapter 25 of the Uniform Building Code for general construction requirements when "Framing Around Openings".

□ STEP 6

Install the Firestop Spacer FS538 (Straight), or FS540 (30° Offset, if Offset is located in the ceiling joist area). These Firestop Spacers are designed to provide the minimum two inch air space around the chimney. In all situations, the Firestops are to be nailed to the ceiling joists from the bottom or fireplace side, EXCEPT, when the space above the ceiling is an attic space. In this situation, the Firestop must be nailed from the attic side to ensure against loose or later blow-in-type insulation from falling into the required two inch air space around the chimney. Firestop Spacers must be used at all ceiling levels where the chimney penetrates a living space.

□ STEP 7

Continue assembling Chimney Sections up through the Firestop Spacers as needed. Check height and unsupported chimney length limitations described earlier.

The maximum straight unsupported height is 25 feet above the firebox and 35 feet between Chimney Stabilizers.

□ STEP 8

When Offsets/Returns are joined to straight Pipe Sections, they must be locked in position with the size 10 sheet metal screws provided, using the predrilled holes. Offsets/Returns and Chimney Stabilizers have straps for securing these parts to joists or rafters. Plumbers tape may be purchased locally and used in conjunction with Joint Bands to secure the chimney as an alternate method. Chimney Brackets may be used to stabilize the chimney. See Figures 13 and 14.

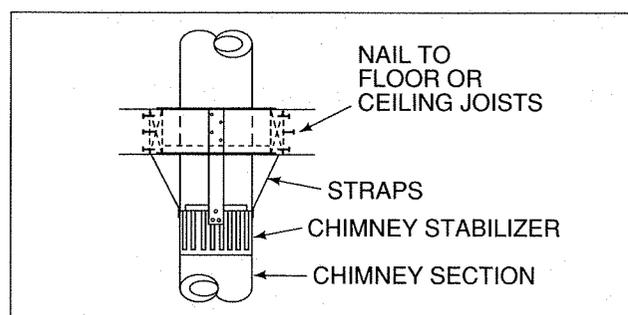


Figure 13
Chimney with Stabilizer

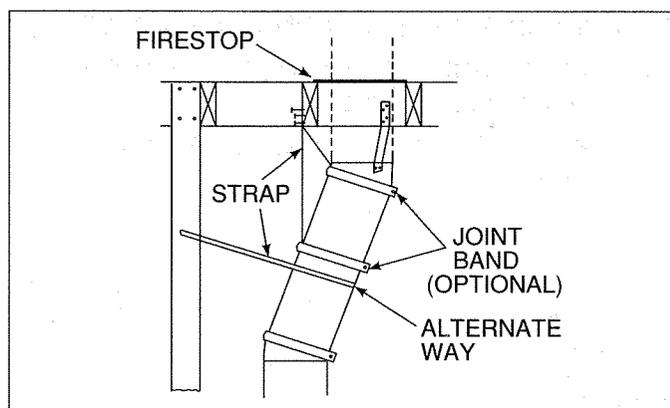


Figure 14
Offset/Return Installation

WARNING

WHEN CHIMNEY SECTIONS EXCEEDING 6 FEET IN LENGTH ARE INSTALLED BETWEEN AN OFFSET/RETURN, STRUCTURAL SUPPORT MUST BE PROVIDED TO REDUCE OFF-CENTER LOADING AND PREVENT CHIMNEY SECTIONS FROM SEPARATING AT THE CHIMNEY JOINTS.

□ STEP 9

Locate the point where the chimney will exit the roof by plumbing down to the center of the chimney. Drive a nail through the roof

□ STEP 10

Measure to either side of the nail and mark the 17" x 17" opening required. This 17" x 17" is measured on the horizontal; actual length may be larger depending on the pitch of the roof. Cut out and frame the opening. See Chapter 25 of the Uniform Building Code for Roof Framing details.

□ STEP 11

Continue to add Chimney Sections through the roof opening, maintaining at least a 2" air space.

□ STEP 12

Install the Roof Flashing appropriate to the roof pitch and install one of these Terminal Caps: RT492 (Telescoping-Round) or RT494 (Round) following the Instructions shipped with these accessories. For flat roof pitch installations, Terminal Caps ST475 (Square) or ST476 (Telescoping-Square) may be installed utilizing a Chase Top.

WARNING

DETAIL INSTRUCTIONS FOR INSTALLATION OF THE ROOF FLASHING, STORM COLLAR AND TERMINAL CAP ARE FOUND PACKAGED WITH THESE PARTS. TO AVOID DANGER OF FIRE, ALL INSTRUCTIONS MUST BE STRICTLY FOLLOWED, INCLUDING THE PROVISION OF AIR SPACE CLEARANCE BETWEEN CHIMNEY SYSTEM AND COMBUSTIBLE ENCLOSURE. TO PROTECT AGAINST EFFECTS OF METAL CORROSION OF THE ABOVE PARTS, FIRST WASH THEM WITH A SOLVENT OR VINEGAR, RINSE WITH WATER, AND THEN PAINT WITH A RUST RESISTANT PAINT.

□ STEP 13

Each fireplace may use an Outside Air Kit. Installation of Outside Air is optional, but recommended. To install the Outside Air Kit, mark and cut out the location selected on the building for air entry. Apply caulking and/or insulation to the building side of the flange tube, and fasten it to the building.

Remove the Outside Air cover from the side of the unit on the FL92A, ST36B and ST36C, or from the bottom of the HA112A, and install the fireplace duct connector, using the same screws. Follow the instructions enclosed with the individual Outside Air Kits.

NOTE: If Insulated Duct, Catalog Number ID4, is used for Outside Air, the studs will compress the side of the Insulated Duct about 3/4 inch. Insulated or Uninsulated Duct, UD4, must be ordered separately.

HA112A OUTSIDE AIR CONTROL

The Outside Air control is located in the lower inside right corner of the firebox. See Figure 15. To operate, pull the handle up to open. Lock the control in the open position by pushing the handle to the side into the notch provided in the handle.

FL92A/ST36B/ST36C OUTSIDE AIR CONTROL

The control is located in the lower right corner of the firebox opening behind the mesh screen. See Figure 15. To open, pull the handle towards the center of the fireplace opening. To lock, press down into the notch provided in the handle.

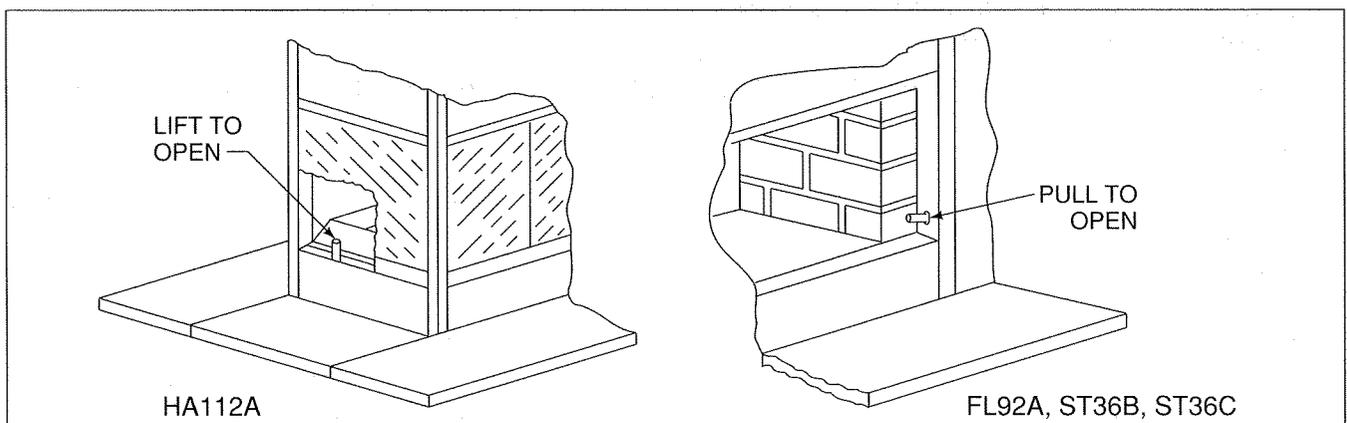


Figure 15
Outside Air Control

CAUTION

SIGNIFICANT COLD AIR MAY INFILTRATE THROUGH THE DUCT OR OTHER PARTS OF THIS SYSTEM. TO GUARD AGAINST THIS, CHECK FOR LIGHT LEAKS WITH A FLASHLIGHT AND SEAL THESE WITH DUCT TAPE AND/OR INSULATION.

STEP 14

Frame the fireplace enclosure, allowing space for outside air ducts and gas piping if desired. Care must be taken with any electrical wiring to avoid exposure to high temperatures or mechanical damage to wire insulation. A minimum clearance of 1/2" must be maintained between the fireplace sides and the combustible enclosure. Check to make sure the blocks from STEP 1 have been removed.

STEP 15

If Fans are desired (ST36C only), first install the Junction Box Kit, using the instructions supplied in the JK1 Kit. Fan Kits FK1 and FK2 can only be installed after the JK1 Junction Box Kit has been installed. Follow the Instructions supplied with the Fan Kits for proper installation. It is recommended to install the JK1 Junction Box Kit during initial construction even if fans are not initially desired - this allows for adding Fan Kits at a later date.

WARNING

DISCONNECT POWER BEFORE STRIPPING OR JOINING ANY SUPPLY WIRES. ONLY PERSONS QUALIFIED FOR MAKING ELECTRICAL INSTALLATIONS (ELECTRICIANS) AS RECOGNIZED BY LOCAL OR NATIONAL GOVERNMENTAL BODIES SHOULD ATTEMPT TO MAKE THE INCOMING SUPPLY WIRE CONNECTIONS.

EDGES ARE SHARP. HAND PROTECTION IS RECOMMENDED. RECHECK ALL FASTENERS BEFORE LEAVING JOB.

NOTE: A Motor Speed Control Kit, Catalog Number BC10, is available for use with these Fan Kits. Refer to the Instructions packed with it for proper installation. If a speed control option is desired, it is recommended to use the BC10 Kit to insure proper function.

STEP 16

Knockouts are provided in the refractory to allow for connection of a decorative gas appliance incorporating an automatic shutoff device and complying with the Standard for Decorative Gas Appliances for Installation in Vented Fireplaces, ANSI Z21.60. The decorative gas appliance should be installed in accordance with the National Fuel Code, ANSI Z223.1-1980. This refractory is designed to allow 1/2" iron pipe to pass through. Use a non-combustible sealant to seal any opening between the gas pipe and refractory on the inside. Repack the insulation removed, to seal around the gas pipe where it exits the side of the fireplace.

CAUTION

- 1. WHEN USING THE DECORATIVE APPLIANCE, THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION.**
- 2. A FULLY OPEN DAMPER ENSURES PROPER VENTING OF COMBUSTION PRODUCTS.**

STEP 17

Install Glass Doors on the ST36B or ST36C fireplace if desired, using the Instructions supplied with these optional accessories. One Glass Door Kit, GA36A or GA36B is required for each face of the unit. You must not operate the unit with Glass Doors installed only on one side. The FL92A and HA112A Glass Doors are standard. Protect Glass Doors from breakage by temporarily removing them until all construction is complete.

STEP 18

Position the Hearth Extension over the metal protective strip which should project two inches in front of the fireplace bottom front. See Figure 5. Seal the crack between the Hearth Extension and fireplace with a non-combustible (sand-cement) grout. Hearth Extensions are required on the three sides of the FL92A, on four sides of the HA112A, and both sides of the ST36B and ST36C fireplace.

□ STEP 19

Apply the finish materials of your choice. Do not install combustible materials over the black face of the fireplace or over the cooling air inlet slots in the firebox opening. You may use non-combustible material over the black face of the fireplace.

□ STEP 20

Prior to building your first fire in your fireplace, please read the "Operating Instructions" section that follows.

WARNING

DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS. THIS PREVENTS THE NATURAL CONVECTION COOLING WHICH MUST TAKE PLACE. THE REQUIRED CLEARANCES ARE TO THE ENCLOSURE AND SHOULD NOT BE REDUCED BY THE ADDITION OF OTHER MATERIALS WHETHER OF NON-COMBUSTIBLE OR COMBUSTIBLE MATERIAL. COMBUSTIBLE MATERIALS AS WELL AS THE NON-COMBUSTIBLE MATERIALS USED IN THE FIREPLACE MAY HAVE THEIR USEFUL LIFE REDUCED.

V. CONSTRUCTING A CHASE

The chase may be constructed for the fireplace and chimney or for the chimney only. A chase is an enclosure built around the system. Figure 16 illustrates examples of a chase constructed on a roof.

MATERIALS FOR CHASE

The chase is constructed much the same as the walls in your home. A variety of materials may be used including brick, stone, veneer brick, or standard siding materials.

In constructing the chase, several factors must be considered.

1. Maintain a 2" air space clearance around the chimney.
2. The Chase Top must be constructed of a non-combustible material.
3. The walls of the chase must be insulated to prevent heat leaking from the home around and through the fireplace.

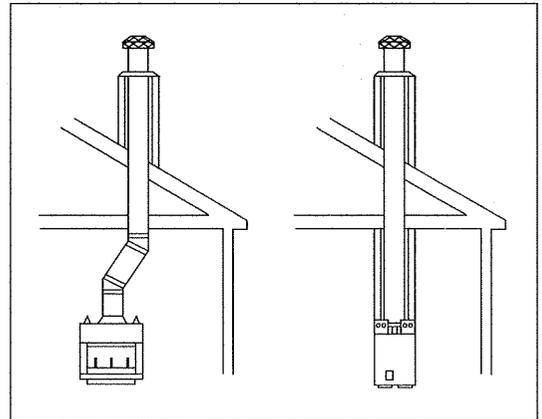


Figure 16
Chase Construction

TO INSTALL TERMINAL CAP ON CHASE - ENCLOSED CHIMNEY

1. Construct chase of desired materials maintaining a minimum 2" air space around the chimney.

WARNING

NEVER INSTALL A SINGLE WALL SLIP SECTION OR SMOKE-PIPE IN A CHASE STRUCTURE. THE HIGHER TEMPERATURE OF THIS SINGLE WALL PIPE MAY RADIATE SUFFICIENT HEAT TO COMBUSTIBLE CHASE CONSTRUCTION MATERIALS TO CAUSE A FIRE.

2. Install the Chimney Sections up through the chase. When using a Round Terminal Cap (RT494), the last section of Pipe must extend above the Chase Top to allow installation of the Storm Collar and Terminal Cap. For installations utilizing a Telescoping Round Terminal Cap (RT492), the last Chimney Section must not be more than 15" below or 3" above the Chase Top. For installations utilizing a Telescoping Square Terminal Cap (ST476), the last Chimney Section must be below the top of the Chase Top, but not more than 18" below. For installations utilizing a Square Terminal Cap (ST475), the last Chimney Section must not be more than 4 3/4" below the base of the Chase Top.

WARNING

DETAIL INSTRUCTIONS FOR INSTALLATION OF THE CHASE TOP, STORM COLLAR AND TERMINAL CAP ARE FOUND PACKAGED WITH THESE PARTS. TO AVOID DANGER OF FIRE, ALL INSTRUCTIONS MUST BE STRICTLY FOLLOWED, INCLUDING THE PROVISION OF AIR SPACE CLEARANCE BETWEEN CHIMNEY SYSTEM AND COMBUSTIBLE ENCLOSURE. TO PROTECT AGAINST EFFECTS OF METAL CORROSION OF PARTS SUCH AS CHASE TOP AND THOSE ABOVE CHASE TOP, FIRST WASH THEM WITH A SOLVENT OR VINEGAR, RINSE WITH WATER, AND THEN PAINT WITH A RUST RESISTANT PAINT.

3. Attach the Chase Top (CT56) to the top of the chase.
4. Install the Terminal Cap, using the Instructions packaged with it.

OPERATING INSTRUCTIONS

NOTICE

SAVE AND PASS THESE OPERATING INSTRUCTIONS AND THE INSTALLATION INSTRUCTIONS TO SUBSEQUENT OWNERS. THE INFORMATION PROVIDED IS INTENDED TO NOTIFY AND WARN THEM ABOUT MAKING UNSAFE FUTURE MODIFICATIONS SUCH AS THE ADDITION OF SHELVES OR THE USE OF UNAUTHORIZED PARTS AND REPAIRS.

CAUTION

EDGES ARE SHARP. HAND PROTECTION IS RECOMMENDED.

Before starting a fire in your new or existing fireplace, use the following check list:

- A. **FLUE DAMPER.** When the lever is free to move (not locked in a notch), the lever should move toward the full open position. Verify by looking up from the inside of the firebox. Then lock it in this full open position.

WARNING

THE FIREPLACE MUST BE OPERATED WITH THE DAMPER IN THE FULL OPEN POSITION.

- B. **CHIMNEY INSPECTION.** Visually inspect the chimney internally for obstructions and construction damage. Flue pipe joints and seams must be continuous and mechanically tight. In a used chimney, additional inspection is needed for the following:

“Creosote - Formation and Need for Removal.

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire.

The chimney should be inspected at least twice a year during the heating season to determine if creosote build-up has occurred.

If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.”

C. **CHIMNEY CLEANING.** If you do detect a build-up of creosote, contact a qualified chimney sweep or clean it yourself.

1. Open the damper.
2. Hang a damp sheet across the fireplace opening to stop dirt and soot from entering the room.
3. Remove the Terminal Cap. See Figure 17.
4. Clean with a stiff bristled brush attached to a pole,

OR

- 4A. Tie a rope to a burlap bag filled with straw and several stones . Work up and down the flue until clean.
5. Replace the Terminal Cap.

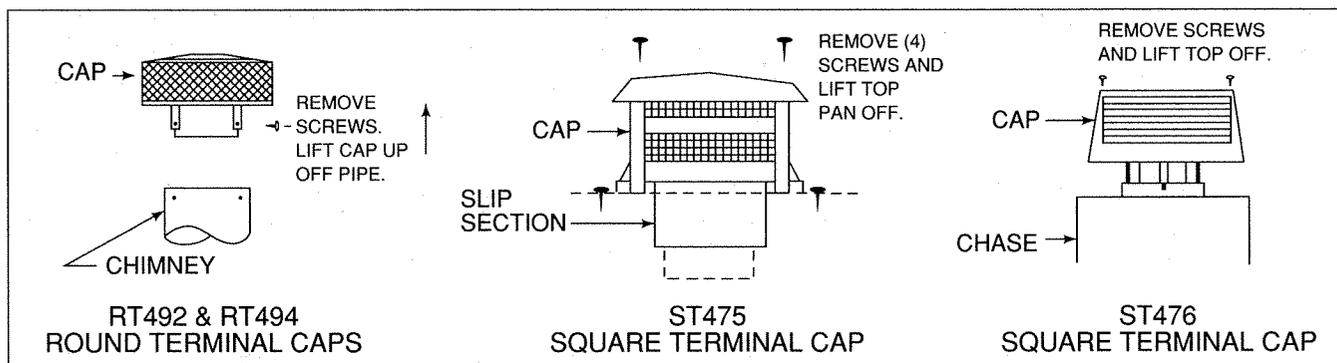


Figure 17
Terminal Caps

D. **CLEAR SPACE NEAR FIREPLACE.** Hearth Extensions must extend as shown in Figure 1. Combustible materials must not be stored in this area. Room furnishings such as drapes, curtains, chairs, or other combustibles must be at least 64 inches from the open fronts of the fireplace.

E. **FIRESCREEN.** Firescreens are always provided to control sparks. Both firescreens must be closed whenever the fireplace is in use. Glass Doors or firescreens must not be used to hold burning material inside the fireplace as might occur when overfilling the fireplace with empty boxes or branches. Only those Glass Door units specifically tested and listed for use with the specific fireplace model should be used. Screens should be closed when the Glass Doors are closed.

F. **OUTSIDE AIR.** A damper allows control of the Outside Air inlet of your fireplace. In a tightly sealed or well insulated home, replacement of combustion air is necessary to keep harmful gases from entering living spaces.

CAUTION

FIREPLACE OPERATION DOES REQUIRE AIR. DO NOT TAKE AIR FROM OTHER FUEL BURNING APPLIANCES WHICH CAN RESULT IN IMPROPER VENTING (SMOKING) OR AIR DILUTION. ALWAYS PROVIDE ADEQUATE MAKE-UP AIR.

G. **SETTING THE FIRE.** Check the flue damper to be sure it is fully open. Place crumpled or twisted paper on to the hearth floor. Loosely arrange kindling or small pieces of wood to form a layer above the paper. Place three logs in a rough pyramid as shown in Figure 18, being sure to allow free air space between the logs. Small sticks of wood may be used to separate the logs. Use only solid wood fuel or a listed decorative gas appliance. Do not use a fireplace insert or other products not specified for use with this fireplace. **NOTE:** When heated the first time, the temperature of the fireplace must be raised gradually, to prevent moisture within the refractory from causing cracks, and to allow the binders in the insulation to dissipate.

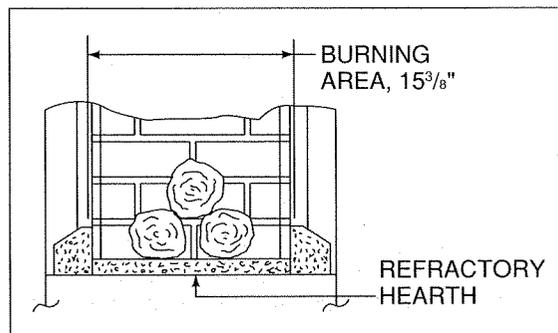


Figure 18
Section Through Fireplace

CAUTION

NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR 'FRESHEN UP' A FIRE IN THIS FIREPLACE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE FIREPLACE WHILE IT IS IN USE TO AVOID THE RISK OF FIRE.

- H. **DISPOSAL OF ASHES.** Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.
- I. **GLASS DOORS.** When not burning the fireplace, Glass Doors will prevent loss of room heat through the chimney. Only HEATILATOR® Glass Doors, Catalog Numbers GA36A, GA36B, GD36A, GD36B, C1136A, C1136B, C1136C, C2136A, C2136B, C2136C, C1000A, C1000B, C1000C, D1136B or D2136B may be used.

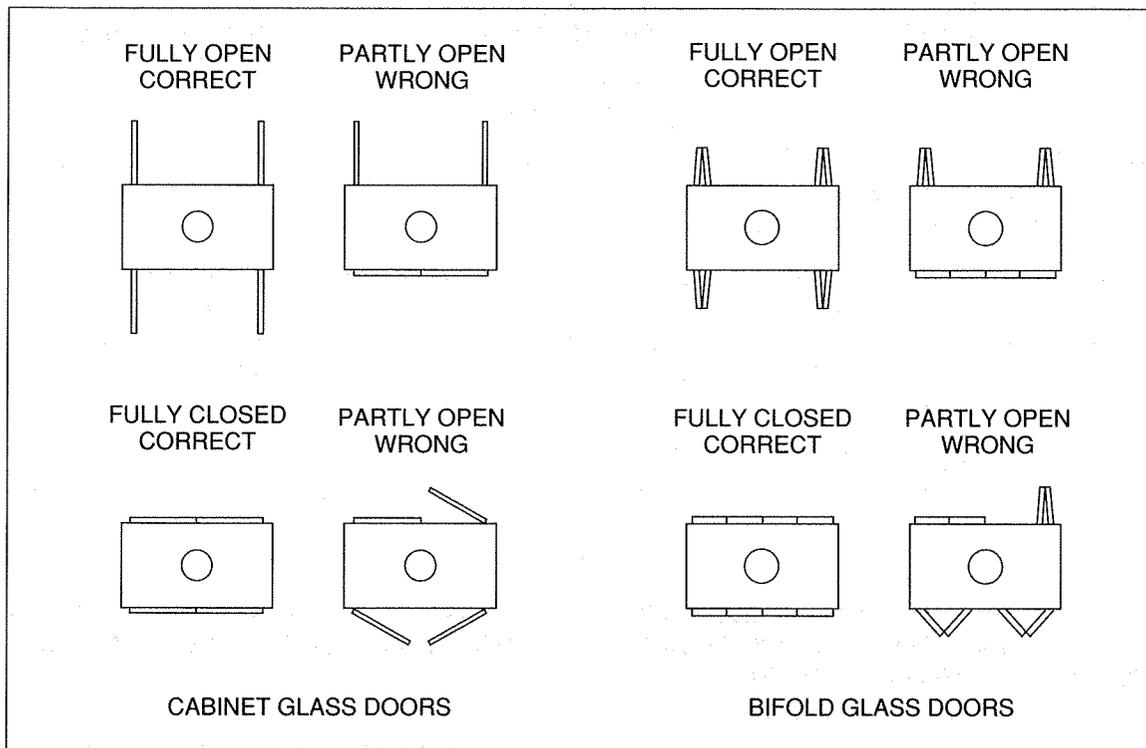


Figure 19
Recommended Operating Positions of Doors

WARNING

FIREPLACES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH DOORS FULLY OPEN OR DOORS FULLY CLOSED. IF DOORS ARE LEFT PARTLY OPEN, GAS AND FLAME MAY BE DRAWN OUT OF THE FIREPLACE OPENING, CREATING RISKS OF BOTH FIRE AND SMOKE.

J. OPERATING YOUR FIREPLACE.

WARNING

CONTINUED OVERFIRING CAN PERMANENTLY DAMAGE YOUR FIREPLACE SYSTEM. EXAMPLES OF OVERFIRING ARE:

- 1. QUANTITIES OF SCRAP LUMBER, PINE BRANCHES OR CARDBOARD BOXES WHICH EXCEED THE VOLUME OF THE "NORMAL LOG FIRE". THESE MATERIALS PRODUCE MANY SPARKS AND MUST NOT BE USED.**
- 2. THE "NORMAL LOG FIRE" IS THREE LOGS, EACH FOUR INCHES IN DIAMETER, WITH THE LENGTH NO GREATER THAN 24 INCHES. THE RATE OF FIRING MUST NOT EXCEED THESE THREE LOGS PER HOUR.**

K. **FAN KIT (FOR ST36C).** HEATILATOR® FK1 and FK2 Heat Circulating Fans may be used with this fireplace. An external ON/OFF switch must be provided, or a Motor Speed Control BC10, may be used. Using these fans will increase efficiency and heat output.

L. **SAFETY - A FINAL WORD.** Fireplaces as well as other woodburning appliances have been used safely for many years. Our own experience is that most problems are caused by improper installation, fueling, and operating. All dimensions specified are minimum and increasing distances to combustibles decreases risk. Such common practice as surrounding the fireplace with loose fill insulation, and especially leaving the fire unattended, will increase the risk of fire. Additionally, an annual inspection of all fireplace systems should be performed as, like any appliance, minor repairs may be required to maintain the system in top operating condition.

Attention

FIREPLACE INSTALLER

***Please return these
Operating & Installation
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