

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

## BF36 INSTALLATION INSTRUCTIONS

### LISTINGS AND CODE APPROVALS

These fireplace systems have been tested in accordance with Underwriters' Laboratory Procedures and have been Listed by them for installation and operation as described in these Instructions and in the Care and Operation booklet accompanying each fireplace.

These systems have been approved by various other national and regional building code agencies including:

BOCAI  
ICBO  
SBCC  
NYC BSA

They comply with all HUD and FHA requirements as outlined in U.S. Department of Housing and Urban Development Revised Minimum Property Standard Section 610-1 and satisfy the requirements of the New York State Energy Code.

Check with your local building code agency before you begin installation.

### 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 DIRECTIONS, WILL VOID THE UNDERWRITERS' LABORATORY LISTING AND THE PRODUCT WARRANTY AND MAY CREATE A HAZARDOUS INSTALLATION. READ THROUGH THESE DIRECTIONS THOROUGHLY PRIOR TO STARTING YOUR INSTALLATION AND FOLLOW THEM CAREFULLY THROUGHOUT YOUR PROJECT.

### THE FIREPLACE SYSTEM

The Heatilator® Fireplace system consists of the following:

1. Fireplace
2. Hearth Extension
3. Chimney System
4. Roof Termination
5. Grate

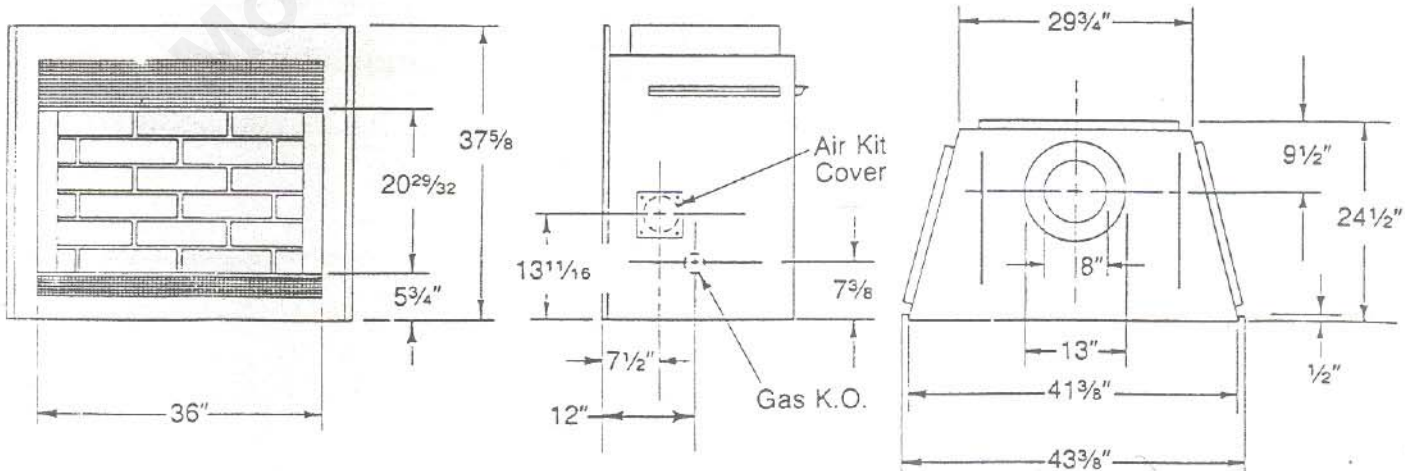
Optional components include:

1. Glass Doors
2. Outside combustion air system

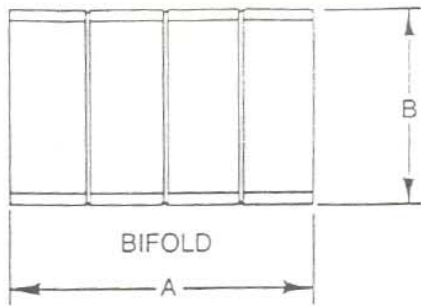
THE FIREPLACE SYSTEM COMPONENTS

Catalog Designation	Description
BF36	Fireplace
HX36	Hearth Extension
GD36BF	Glass Doors — Bifold
GR36-1	Grate (included with Fireplace)
AC506	Chimney Section — 6 inch long
AC512	Chimney Section — 12 inch long
AC536	Chimney Section — 36 inch long
AC548	Chimney Section — 48 inch long
SZ5	Chimney Stabilizer
OR530	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
RT574	Chimney Terminal Cap — Round
ST575	Chimney Terminal Cap — Square
AK36	Air Kit — Outside Air
CT56	Chase Top
SZ810	Chimney Strapping
ID4	Insulated Duct/Outside Air
UD4	Uninsulated Duct/Outside Air

FIREPLACE BF36

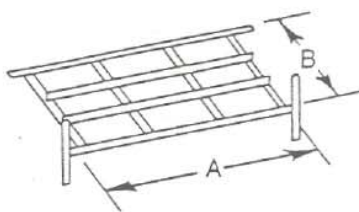


GLASS DOORS



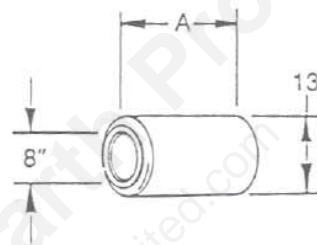
CAT. NO.	A	B
GD36BF	33 <sup>3</sup> / <sub>8</sub> "	19 <sup>5</sup> / <sub>8</sub> "

GRATES



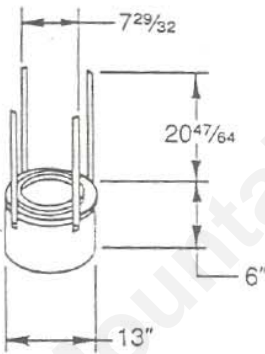
CAT. No.	A	B
GR36-1	21 <sup>1</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>8</sub> "

CHIMNEY SECTIONS



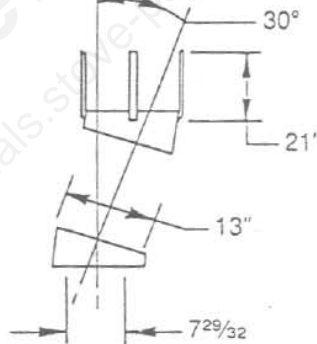
CAT. NO.	A
AC506	6"
AC512	12"
AC536	36"
AC548	48"

CHIMNEY STABILIZER



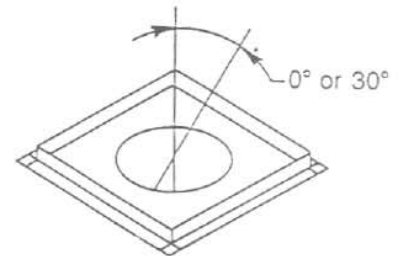
SZ5

OFFSET/RETURN



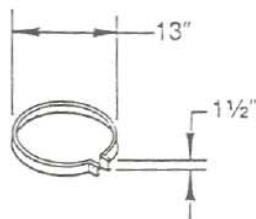
OR530

FIRESTOP SPACERS



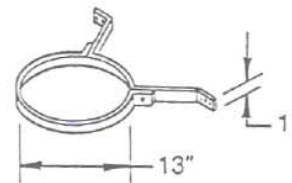
FS538  
FS540

JOINT BANDS



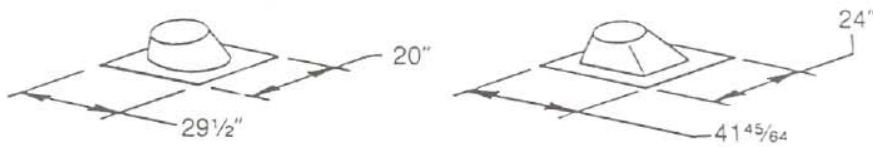
JB577

CHIMNEY BRACKETS



CB576

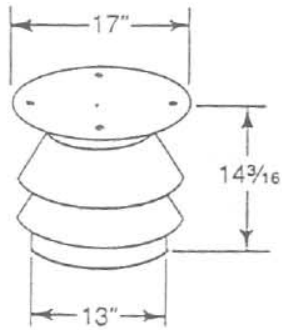
OOFF FLASHINGS



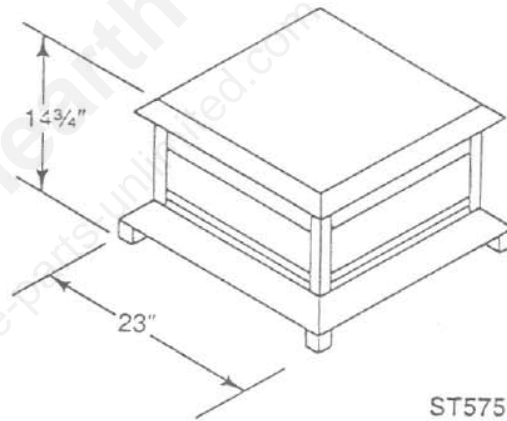
Flat to 6/12 Pitch  
RF570

6/12 to 12/12 Pitch  
RF571

TERMINAL CAPS



RT574

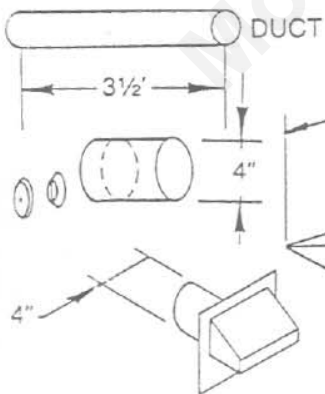


ST575

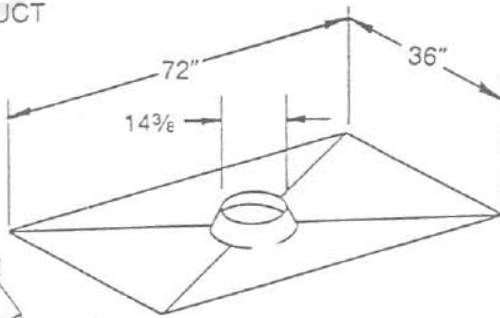
AIR KIT

CHASE TOPS

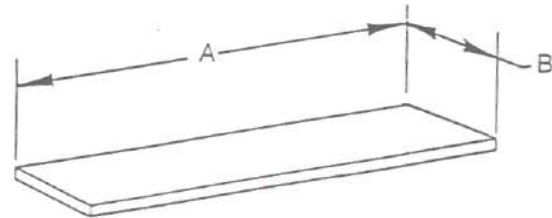
HEARTH EXTENSIONS



AK36



CT56



CAT. NO.	A	B
HX36	50"	16"

## FIREPLACE LOCATION AND SPACE REQUIREMENTS

The fireplace may be located as shown in Figure 1.

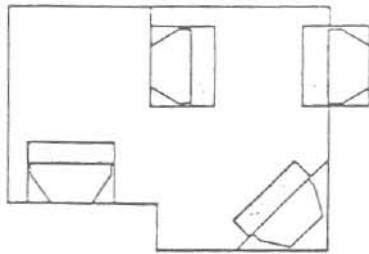


Figure 1

- Along a wall.
- In an exterior chase or projecting into a garage. (See Figure 2 for minimum space.)
- As a room divider.
- Across a corner. (See Figure 3 for minimum space.)

Figures 2 and 3 show installations assuming outside air ducts with allowance for making 90° bends. Less space is required when ducting goes directly outside without forming elbows.

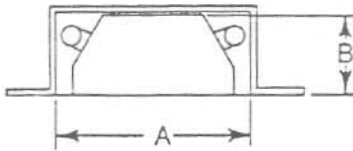


Figure 2

CAT. NO.	A	B
BF36	57 <sup>3</sup> / <sub>4</sub> "	24 <sup>1</sup> / <sub>2</sub> "

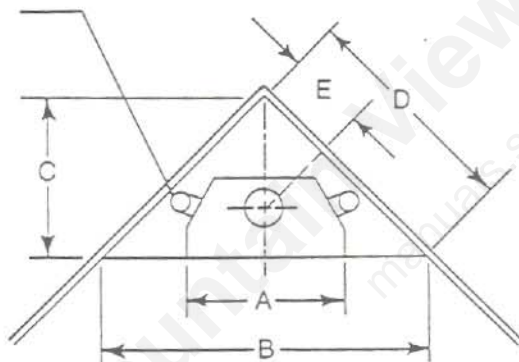


Figure 3

### WITH OUTSIDE AIR

CAT. NO.	A	B	C	D	E
BF36	43 <sup>1</sup> / <sub>8</sub> "	78"	39 <sup>1</sup> / <sub>2</sub> "	56"	17 <sup>5</sup> / <sub>16</sub> "

### WITHOUT OUTSIDE AIR

CAT. NO.	A	B	C	D	E
BF36	43 <sup>1</sup> / <sub>8</sub> "	77 <sup>1</sup> / <sub>4</sub> "	38 <sup>5</sup> / <sub>8</sub> "	54 <sup>5</sup> / <sub>8</sub> "	16 <sup>1</sup> / <sub>2</sub> "

ALL DIMENSIONS IN INCHES

### WARNING

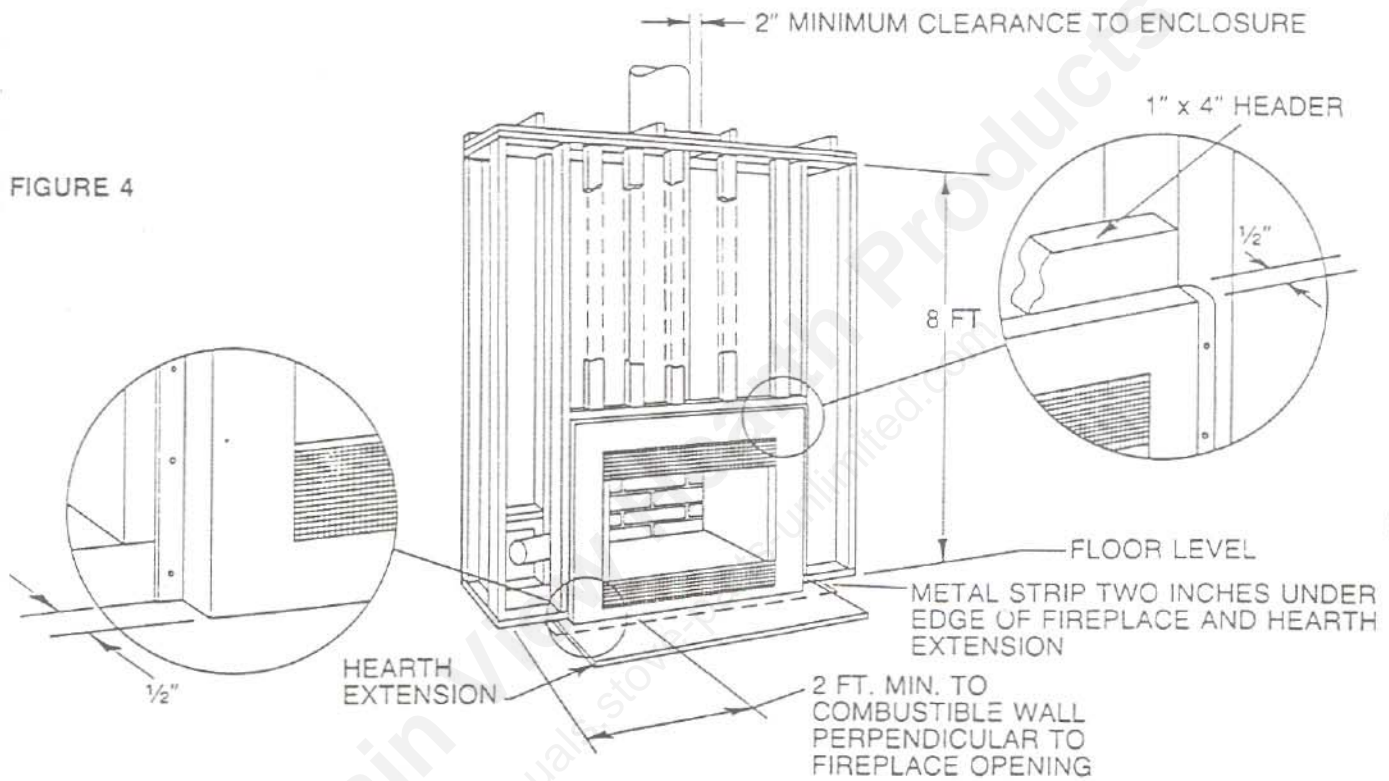
WHEN LOCATING THE FIREPLACE IN A SPACE PROJECTING INTO A GARAGE, THE OUTSIDE AIR MUST NOT BE TAKEN FROM THE GARAGE SPACE. EXHAUST PRODUCTS OF GASOLINE ENGINES ARE HAZARDOUS.

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 4 shows the framing of the BF36, assuming combustible materials are used. The vertical framing must extend from the floor to ceiling, with no horizontal members projecting from front to back above the fireplace, except at the ceiling level. Chimney sections above the ceiling level require a minimum of two inches to the enclosure for the total chimney height.

### WARNING

THE FIREPLACE MUST NOT BE INSTALLED AGAINST VAPOR BARRIERS OR EXPOSED INSULATION TO PREVENT CONTACT WITH SAGGING OR LOOSE INSULATION.



After completing the framing and after applying the facing material over the framing, 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.

Non-combustible materials may be used to cover the black fireplace front. The following is a description of materials as used in these Instructions:

1. **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.
2. **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.
3. **Non-combustible Seal Material.** General Electric RTV103 (Black), or equivalent. Rutland, Inc. Fireplace Mortar #63, or equivalent.

### WARNING

DO NOT APPLY FINISH MATERIALS OVER THE SCREENED FACE OF THESE FIREPLACES. THIS WILL BLOCK THE FLOW OF COOLING AIR AND MAY CAUSE DANGEROUSLY HIGH TEMPERATURES ON COMBUSTIBLE SURFACES OR ON THE FIREPLACE ITSELF.

The use of factory built Hearth Extensions is shown in Figure 5. These may be covered with a maximum thickness decorative material of  $\frac{1}{4}$  inch. Seal gaps with non-combustible sealant.

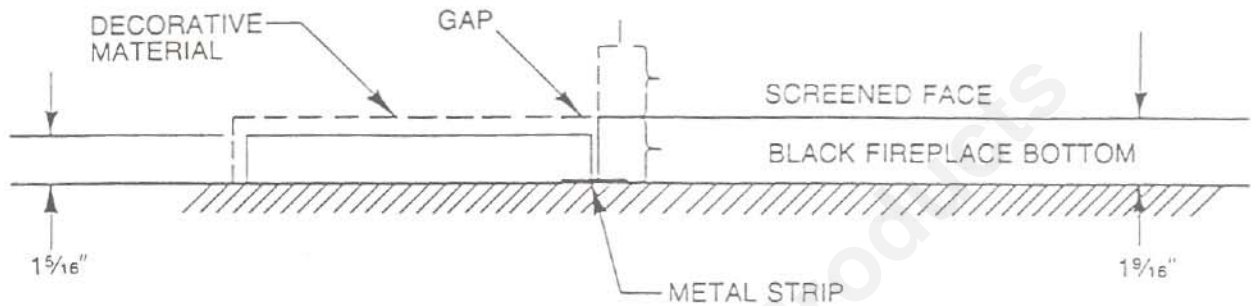


Figure 5

Field constructed Hearth Extensions may be used, but must be constructed in accordance with the following instructions. A typical construction is shown in Figure 6. In all cases of field construction, the minimum side and front dimensions shown for factory built Hearth Extensions must be used, and gaps must be sealed with non-combustible (sand-cement) grout.

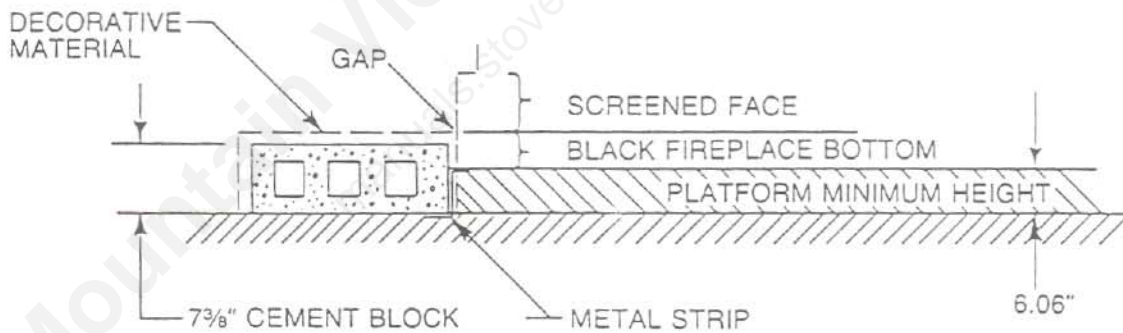


Figure 6

A second alternative to the cement block construction shown in Figure 6 is as follows:

1. One course common brick on edge — top layer.
2.  $\frac{3}{8}$ " minimum millboard — middle.
3. Standard combustible construction — base.

Both Figure 6, and the above construction require that the fireplace be raised on a platform. A metal strip must be used between the fireplace and the field constructed Hearth Extensions. Depending on that construction, a special (└) shape may be needed. Each horizontal leg must be 2" wide and the length must be at least equal to length of the Metal Strip provided with each fireplace. The fireplace must rest on a continuous, level surface.

## NOTICE

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 7 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.

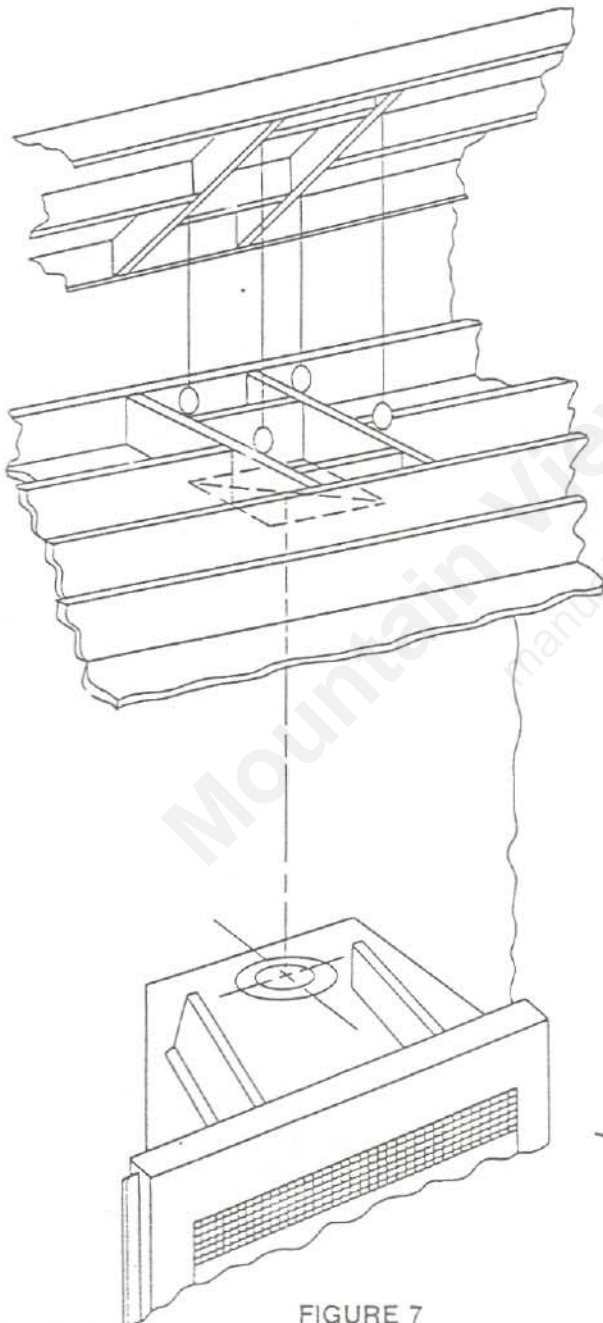


FIGURE 7

4-7-82 A

	<u>AIR COOLED</u>
Minimum straight height	12 ft.
Minimum height with Offset/Return	14 ft.
Maximum height	41 ft.
Maximum chimney length between an Offset/Return	8 ft.
Maximum distance between chimney stabilizers	25 ft.
Double Offset/Return minimum height	24 ft.
Maximum unsupported chimney length between Offset/Return	6 ft.

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

If outside combustion air is used, Figure 8 illustrates only two of many possible locations, a basement fireplace with a maximum of ten feet of vertical height and a direct exit from the fireplace side.

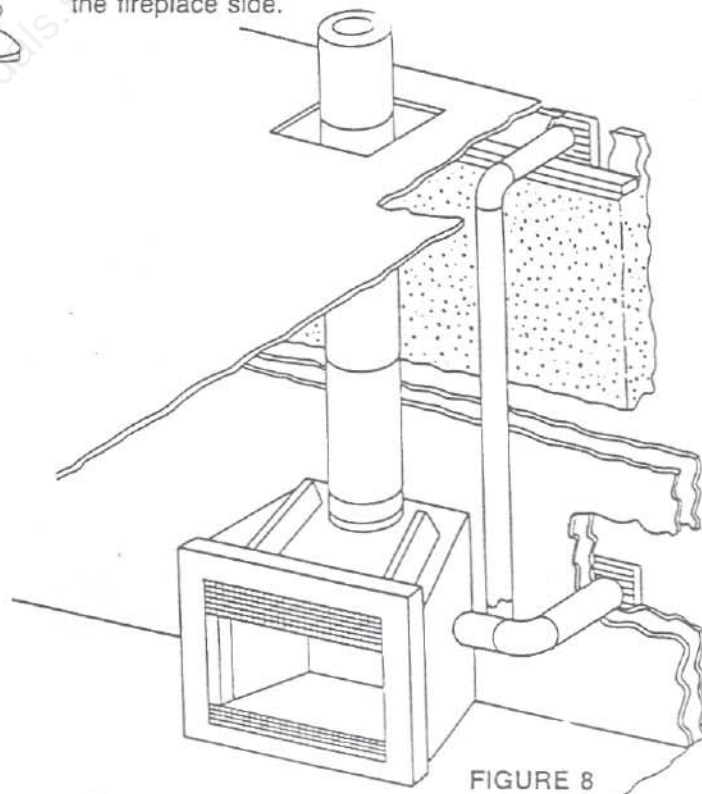


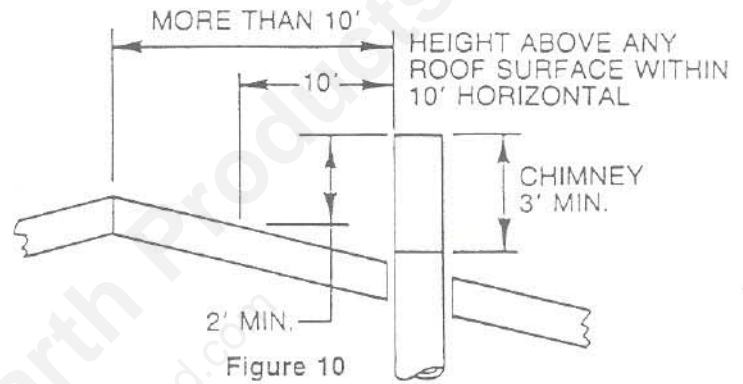
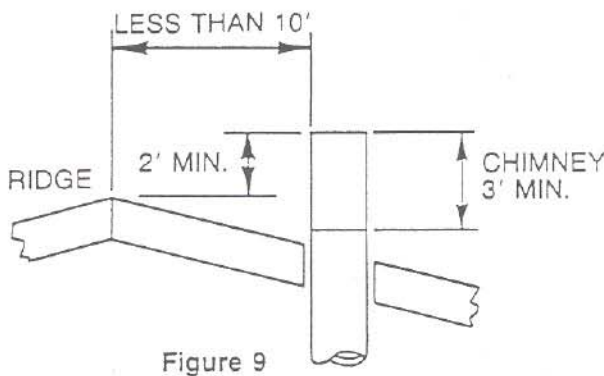
FIGURE 8

8.

Major building codes specify 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 9.
2. 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 that is on the surface of the roof a distance of 10 feet from the center 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 10.

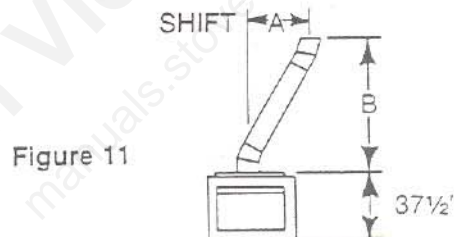
These chimney heights are necessary in the interest of safety and do not assure smoke-free operation. Trees, buildings, adjoining roof lines, adverse wind conditions, etc., may require a taller chimney should smoking exist.



## SELECTING THE CHIMNEY COMPONENTS

Figure 11 and Table 1 enable selection of the appropriate chimney components when using offsets and returns.

1. Determine amount of offset required to extend chimney through wall or around obstacle. (See Figure 11, dimension "A".)



2. Refer to 30° offset chart below and find the "A" dimension closest to but not less than the amount of offset required in your installation.

### WARNING

DO NOT COMBINE OFFSETS TO INCREASE SHIFT DISTANCE BY USING (2) 30° ELBOWS TOGETHER AS AN EXAMPLE. THIS MAY CREATE A FIRE HAZARD.

3. Find "B" dimension on chart and determine if it is compatible for your installation.
4. Read across chart and find the number of chimney sections required.
5. Refer to step-by-step installation directions following chart.
6. All spaces between chimneys and the habitable areas between floors and ceiling must be firestopped.

TABLE 1

30° Offset Chart for BF36

Dimensions in Inches

A	B	AC506	AC512	AC536	AC548	JB577
6 $\frac{1}{16}$	21 $\frac{15}{32}$	1				2
9 $\frac{1}{16}$	26 $\frac{21}{32}$		1			2
12 $\frac{1}{16}$	30 $\frac{49}{64}$	1	1			3
15 $\frac{1}{16}$	35 $\frac{31}{32}$		2			3
17 $\frac{29}{64}$	40 $\frac{5}{64}$	1	2			4
21 $\frac{11}{16}$	47 $\frac{7}{16}$			1		2
24 $\frac{1}{16}$	51 $\frac{35}{64}$	1		1		3
27 $\frac{11}{16}$	57 $\frac{53}{64}$				1	2
30 $\frac{1}{16}$	61 $\frac{51}{64}$	1			1	3
33 $\frac{1}{16}$	67 $\frac{5}{32}$		1		1	3
35 $\frac{29}{64}$	71 $\frac{1}{4}$	1	1		1	4
38 $\frac{29}{64}$	76 $\frac{15}{32}$		2		1	4
40 $\frac{53}{64}$	80 $\frac{9}{16}$	1	2		1	5
45 $\frac{1}{16}$	87 $\frac{59}{64}$			1	1	3
47 $\frac{29}{64}$	92 $\frac{11}{32}$	1		1	1	4
51 $\frac{1}{16}$	98 $\frac{5}{16}$				2	3

## STEP-BY-STEP INSTALLATION

## WARNING

BEFORE STARTING, DO THE FOLLOWING:

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

## STEP 1

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

## STEP 2

Slide metal strip two inches under front edge of fireplace. See Figure 4.

## STEP 3

Level fireplace side-to-side and front-to-back. Shim as necessary.

**STEP 4**

Assemble the first section of pipe to the fireplace top.

**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 PROPERLY INSTALL THIS FIREPLACE SYSTEM. FAILURE TO DO SO MAY RESULT IN A FIRE HAZARD.

**STEP 5**

When offset is used, it must be locked in desired position with size 10 sheet metal screws provided.

**STEP 6**

Mark and cut a 17" square opening in ceiling. Frame the opening with lumber of the same dimension used in the existing ceiling.

**STEP 7**

Install the firestop spacer in opening. Firestops are always nailed in from the bottom (ceiling) side except when used in an attic space. In this case they must be nailed from the attic space surface to prevent loose fill insulation from falling into the required clearance space.

**STEP 8**

Continue chimney sections up through firestop spacer. Repeat as needed for multiple story applications.

**STEP 9**

When offset/returns are to be joined to straight pipe sections, they must be locked in position with the size 10 sheet metal screws provided using the pre-drilled holes.

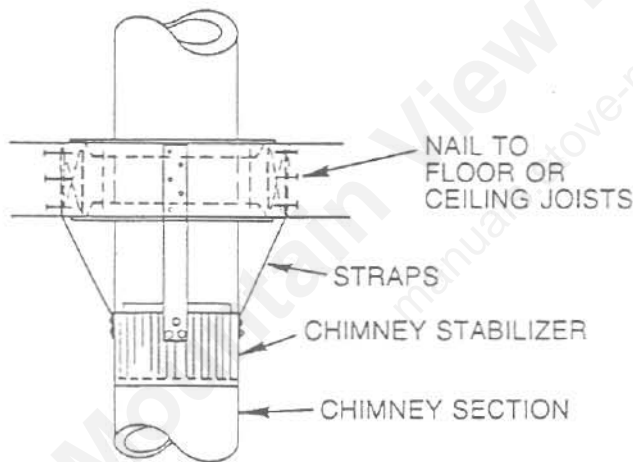


Figure 12

**STEP 10**

Offset/Returns and Chimney Stabilizers have straps for securing them to joists or rafters. Chimney Strapping SZ810 is available or may be locally purchased and used in conjunction with Joint Bands to secure the chimney. Offsets/Returns are also used in wall or chase construction. Chimney Brackets may be used to stabilize the chimney. See Figures 12 and 13.

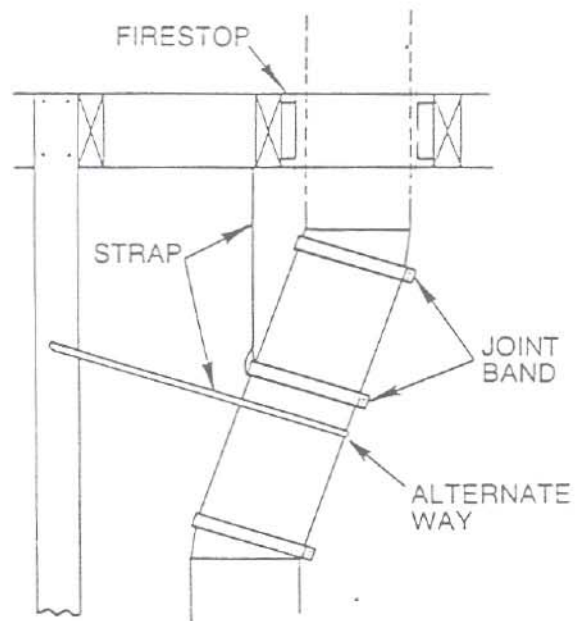


Figure 13

## WARNING

CHIMNEY SECTIONS EXCEEDING 6 FEET (TWO 3 FOOT SECTIONS) WHEN USED WITH AN OFFSET/RETURN, MUST HAVE STRUCTURAL SUPPORT. SEE FIG. 13.

### STEP 11

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 to mark the center.

### STEP 12

Measure to either side of nail and mark. The opening required (17" x 17") is measured on the horizontal. The actual length will vary depending upon the pitch of the roof. Cut out and frame the opening.

### STEP 13

Continue chimney sections through the roof opening, maintaining at least 2" clearance to combustibles.

### STEP 14

Install the roof termination as per the installation directions packaged with the termination components.

### STEP 15

Frame the fireplace allowing room along the sides for the outside air ducts and gas piping if desired.

### STEP 16

Knockouts are provided on the right hand side of the fireplace for connection to a decorative gas appliance only, in accordance with the National Fuel Gas Code, ANSI Z223.1-1980. The side refractory must 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

WHEN USING THE DECORATIVE APPLIANCE, THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION TO INSURE PROPER VENTING OF PRODUCTS OF COMBUSTION.

### STEP 17

Install Outside Air if desired or required by local code, using directions supplied with the kit.

### STEP 18

Install Glass Doors if desired, using directions packed with these optional accessories. Protect glass doors from breakage by temporarily removing them until all construction is complete.

### STEP 19

Position hearth extension over metal protective strips which should project about two inches in front of the fireplace bottom front. See Figure 4. Seal crack between hearth extension and fireplace with a non-combustible sealant.

### STEP 20

Apply finish materials of your choice. Do not install combustible materials over black face of fireplace or screened openings. You may use non-combustible material over the black — non-screened — face of the fireplace.

### STEP 21

This fireplace is equipped with a factory installed grate. In the event it becomes necessary to replace it, remove the pins from both ends of the back horizontal bar, using a vise grip to pull them free. Slide the grate to one side so the opposite end clears the hub. Your new grate will be supplied with new pins. Remove these pins and slide the grate into the hubs located in each side of the firebox (one side at a time), and replace the pins on both ends of the grate bar. Read the "Operating Instructions" booklet before starting your first fire.

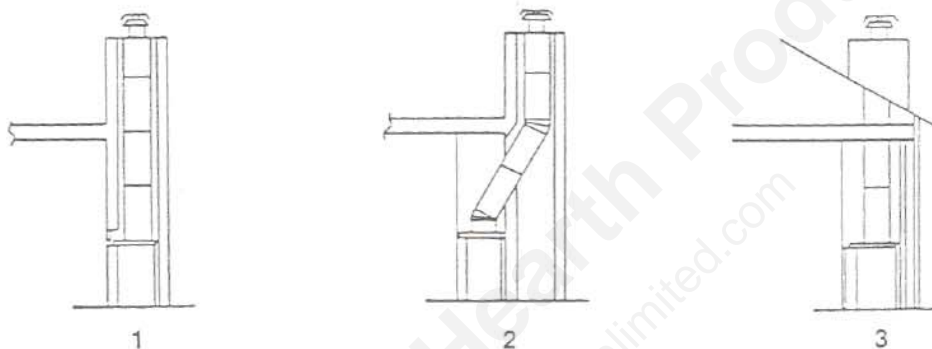
## WARNING

DO NOT PACK SPACES BETWEEN THE FIRE CHAMBER/CHIMNEY WITH INSULATION MATERIALS.

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.

## 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. It is most commonly constructed on an outside wall as shown below.



Three examples of chase applications are shown here:

1. Fireplace and chimney enclosed in chase — exterior.
2. Chimney offset through exterior wall and enclosed in chase.
3. Chase constructed on 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 2" clearance from the chimney to combustibles.
2. Chase top must be constructed of a non-combustible material.
3. Walls of chase must be insulated to prevent heat leaking from the home around and through the fireplace.

## TO INSTALL TERMINAL CAP ON CHASE — ENCLOSED CHIMNEY

1. Construct chase of desired materials maintaining 2" clearance to combustible materials.

## WARNING

NEVER INSTALL A SINGLE WALL SLIP SECTION OR SMOKE-PIPE IN A CHASE STRUCTURE.

2. Install insulated chimney section up through the chase. Last section of pipe must extend at least 6" above the chase top to allow installation of storm collar and round terminal cap. See separate Installation Instructions for square terminal cap.
3. Attach chase top to chase. A factory built top, Catalog Number CT56, is available. See Figure 14.
4. Loosen bolt on storm collar and slide down over pipe to chase top. Tighten bolt and seal around collar.
5. Attach and secure either round or square terminal cap.

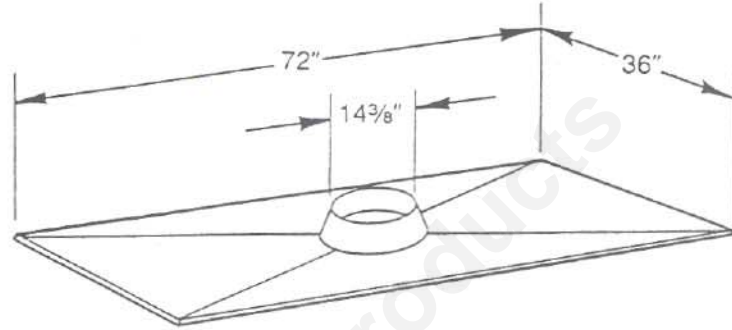


Figure 14