

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

FP36E ADVANTAGE® FIREPLACE INSTALLATION INSTRUCTIONS

I. LISTINGS AND CODE APPROVALS

The FP36E fireplace system has been tested in accordance with Underwriters Laboratories Inc. Standards, and has been LISTED by them for installation and operation as described in these Instructions and in the Operating Instructions accompanying each fireplace.

Fireplace Catalog Number FP36E has been tested and LISTED for use with the Optional Components described in Section II of the Instructions. These Optional Components may be purchased separately and installed at a later date. However, installation of the Outside Air Kit and Fan 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 Technical Services, Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, lowa 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. Chimney System
- 5. Int
- ev System 6 He

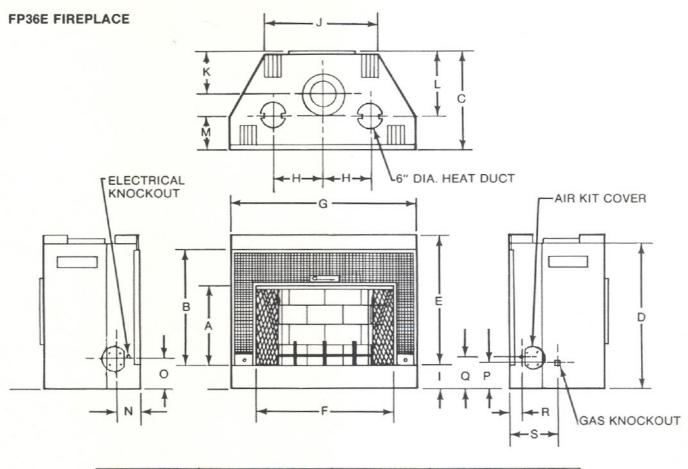
Optional components include:

- Glass Doors
- 2. Outside Combustion Air System
- 4. Roof Termination
- Integral Grate
- 6. Heat Circulation Duct and Outlet
- 3. Heat Circulating Fans
- 4. Solid Brass Trim Kits

THE FIREPLACE SYSTEM COMPONENTS

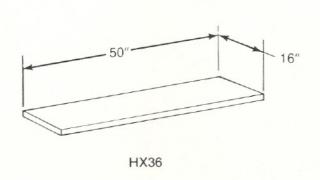
The table below, together with the following pictures, show only those components which may be safely used with this fireplace. Two chimney styles are designated, with the appropriate components for each style. Components may not be interchanged between chimney styles. Select either Air Cooled or INSULSTACK® and follow down the column for the correct components.

Catalog Number		er	Description
Air C	Cooled	INSULSTACK®	CHIMNEY STYLE
GS GS GD TR: GR TK: FK: BC CD HD	36 36A 36B 36T 36 1 36-1 36A 36B 36A 10 10-1	FP36E HX36 GS36A GS36B GS36T GD36 TR1 GR36-1 TK36A TK36B FK36A BC10 CD10-1 HD11 AK36-A ID4 UD4	Fireplace Hearth Extension Glass Doors - Clear-View, Antique Solid Brass Glass Doors - Clear-View, Bright Solid Brass Glass Doors, Tinted - Clear-View, Bright Solid Brass Glass Doors - Bifold, Antique Solid Brass Track Kit (required with GS36A, GS36B, GS36T) Integral Grate (included with Fireplace) Antique Solid Brass Side Opening Trim Kit Antique Solid Brass Outer Edge Trim Kit Fan Kit Motor Speed Control Kit Heat Circulation Duct & Outlet (incl. w/Fireplace) Extra Heat Duct Air Kit - Outside Air Insulated Duct/Outside Air Uninsulated Duct/Outside Air
Twist Lock	Snap Lock		
AC500 AC506 AC512 AC518 None AC536 AC548 SZ5 None OR531	SL500 SL506 SL512 SL518 None SL536 SL548 SL5 None SL531	None IC806 IC812 None IC824 IC836 None SZ8 OR815 OR830	Starter Section - Must be used for Air Cooled Chimney Section - 6 inch long Chimney Section - 12 inch long Chimney Section - 18 inch long Chimney Section - 24 inch long Chimney Section - 36 inch long Chimney Section - 48 inch long Chimney Stabilizer Chimney Offset/Return - 15° Chimney Offset/Return - 30°
FS538 None FS540 None JB577 CB576 RF570 RF571 None RT582 RT584 ST575 ST8 RB4 TB4 RB6 TB6 CT56		FS838 FS839 FS840 WSP841 JB877 CB876 RF870 RF871 RF872 None RT874 ST875 ST8 RB4 TB4 RB6 TB6 CT36	Firestop - Straight Firestop - 15° Firestop - 30° Firestop - Wall Chimney Joint Band Chimney Bracket Roof Flashing - Flat to 6/12 Pitch Roof Flashing - 6/12 to 12/12 Pitch Roof Flashing - 12/12 to 24/12 Pitch Telescoping Chimney Terminal Cap - Round Chimney Terminal Cap - Round Chimney Terminal Cap - Square Housing Top Chimney Terminal Cap 4' Simulated Red Brick Chimney Panels 4' Simulated Tan Brick Chimney Panels 6' Simulated Red Brick Chimney Panels 6' Simulated Tan Brick Chimney Panels 6' Simulated Tan Brick Chimney Panels Chase Top

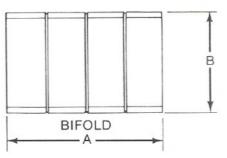


DIM.	Α	В	С	D	Е	F	G	Н	1
INCHES	20-7/8	29	24-1/2	36-7/8	32-3/4	33-7/8	46-3/16	12	5-3/4
J	К	L	М	N	0	Р	Q	R	S
28	10-1/4	16	8-1/2	6-1/4	7-3/4	6-3/4	7-7/8	3	12-3/16

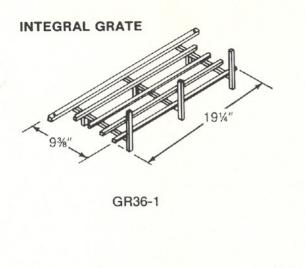
HEARTH EXTENSION

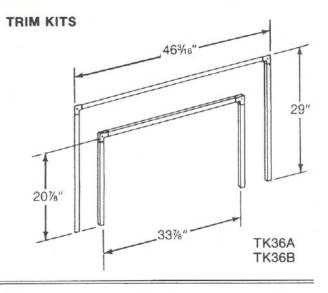


GLASS DOORS



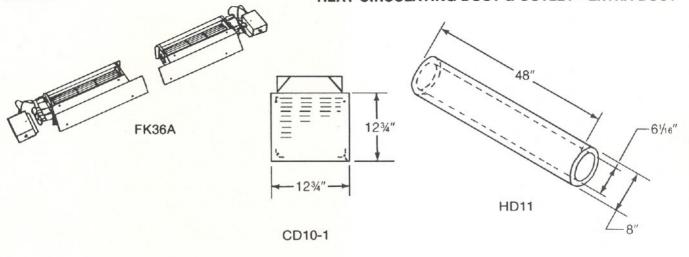
CAT. NO.	Α	В
GS36A	3215/16"	1911/16"
GS36B	3215/16"	1911/16"
GS36T	3215/16"	1911/16"
GD36	33¾"	195/8"



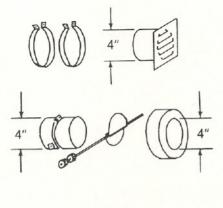


FAN KIT

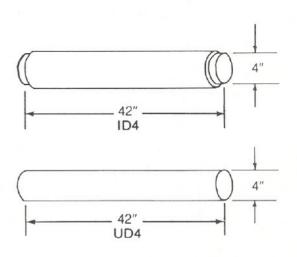
HEAT CIRCULATING DUCT & OUTLET - EXTRA DUCT



AIR KIT

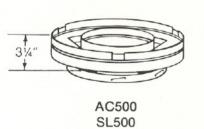


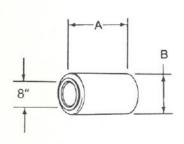
AK36-A



AIR COOLED CHIMNEY STARTER

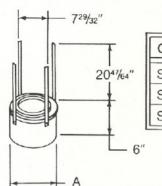
CHIMNEY SECTIONS





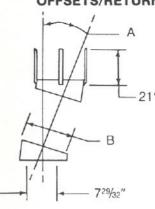
CAT. NO.	Α	В
AC506	6"	13"
SL506	6"	13"
IC806	6".	10½"
AC512	12"	13"
SL512	12"	13"
IC812	12"	10½"
AC518	18"	13"
SL518	18"	13"
IC824	24"	10½"
AC536	36"	13"
SL536	36"	13"
IC836	36"	10½"
AC548	48"	13"
SL548	48"	13"

CHIMNEY STABILIZERS



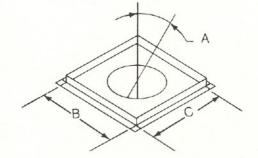
CAT. NO.	A
SZ5	13"
SL5	13"
SZ8	101/2"

OFFSETS/RETURNS

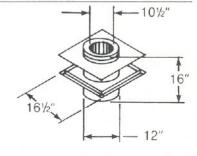


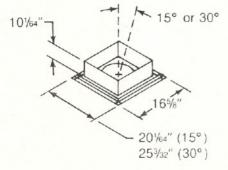
CAT. NO.	Α	В
OR531	30°	13"
SL531	30°	13"
OR830	30°	10½"
OR815	15°	101/2"

FIRESTOP SPACERS

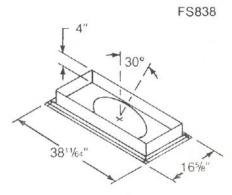


A	11 COO	leu	
CAT. NO.	Α	В	С
FS538	0°	17"	17"
FS540	30°	261/16"	17"



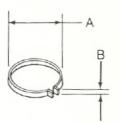


FS839 (15°) FS840 (30°)



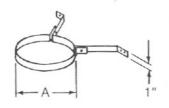
WSP841

JOINT BANDS



CAT. NO.	Α	В
JB577	13"	1 1/2"
JB877	10½"	2"

CHIMNEY BRACKETS



CAT. NO.	Α
CB576	13"
CB876	10½"

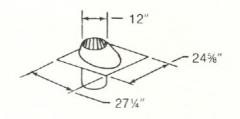
ROOF FLASHINGS



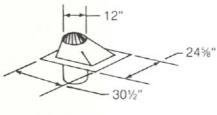
Flat to 6/12 Pitch RF570



6/12 to 12/12 Pitch RF571



Flat to 6/12 Pitch RF870

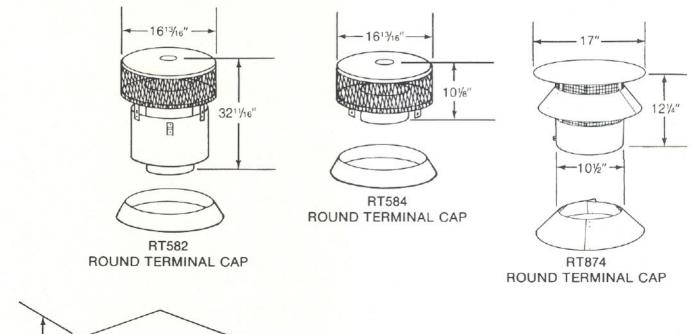


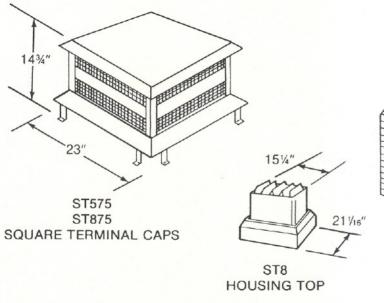
6/12 to 12/12 Pitch RF871

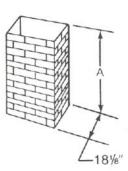


12/12 to 24/12 Pitch RF872

CHIMNEY TERMINAL CAPS & TERMINATIONS

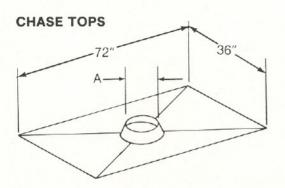






CAT. NO.	Α
RB4	45¾"
TB4	45¾"
RB6	69¾"
TB6	69¾"

SIMULATED BRICK TERMINATIONS



CAT. NO.	Α
CT36	12"
CT56	143/8"

III. FIREPLACE LOCATIONS, SPACE AND CONSTRUCTION REQUIREMENTS

The fireplace may be located as shown in Figure 1.

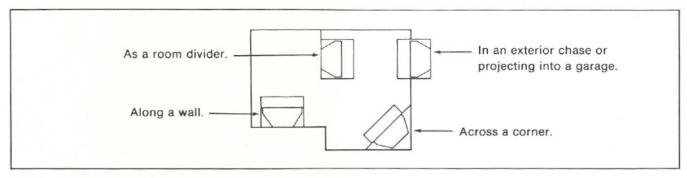
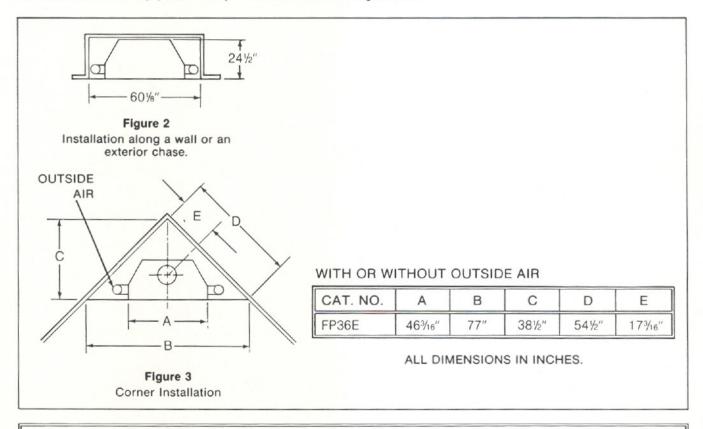


Figure 1
Fireplace Locations

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.



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.

8.

Figure 4 shows the framing of the FP36E, assuming combustible materials are used. The vertical framing must extend from floor to ceiling, with no horizontal members projecting from front to back above the fireplace, except at the ceiling level. Chimney Sections at any level require a minimum air space of two inches to the enclosure, including any framing, for the total chimney height.

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.

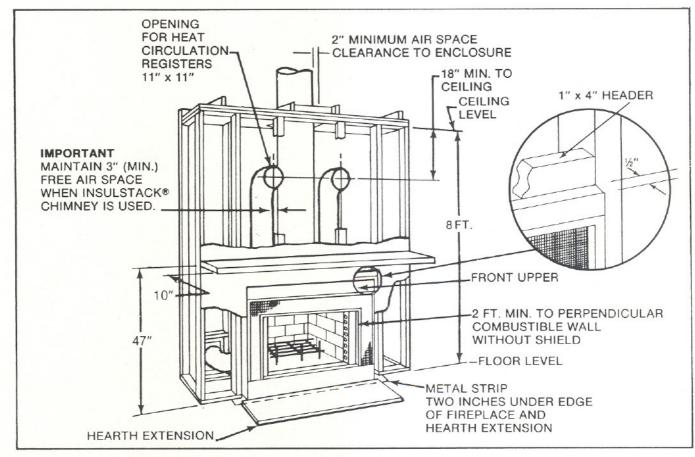


Figure 4
Framing the Fireplace

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. 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.

Non-combustible materials may be used to cover the black non-screened 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.

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 non-combustible decorative material. Seal gaps with non-combustible (sand-cement) grout.

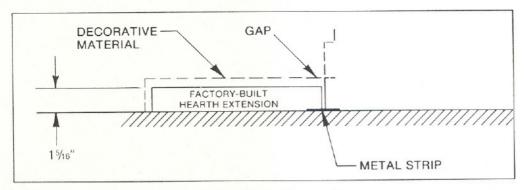


Figure 5
Factory-Built Hearth Extension

10

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, a minimum dimension of 16" to the front and extending 8" on either side of the fireplace opening must be used, and gaps must be sealed with non-combustible (sand-cement) grout.

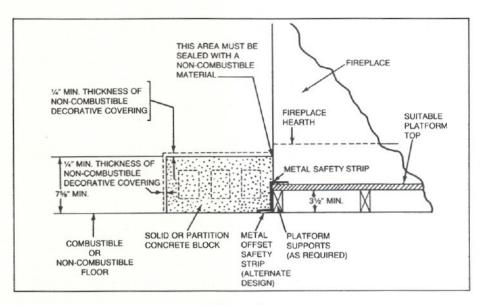


Figure 6
Field Constructed Hearth Extension

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

- One course common brick on edge top layer.
- 2. 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 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 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.

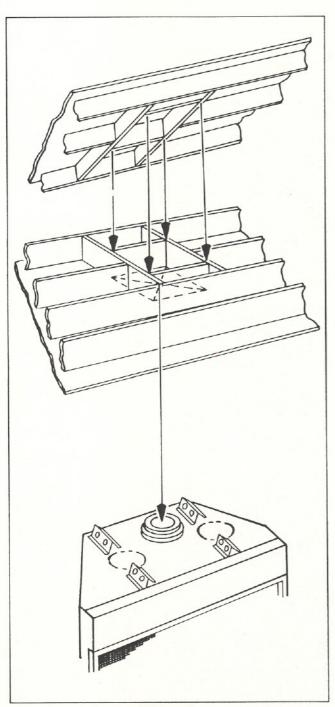


Figure 7
Ceiling and Attic Construction

NOTE: A 4' minimum height must be maintained from the top of the uppermost Chimney Section to the Outside Combustion Air inlet.

	AIR COOLED	INSULSTACK®
Minimum straight height	12 ft.	14 ft.
Minimum height with		
Offset/Return	14 ft.	14 ft.
Maximum height	41 ft.	41 ft.
Maximum chimney length		
between an Offset/Return	8 ft.	8 ft.
Maximum distance between		
Chimney Stabilizers	35 ft.	25 ft.
Double Offset/Return		
minimum height	24 ft.	24 ft.
Maximum unsupported		
chimney length between		
Offset/Return	6 ft.	6 ft.
Maximum straight unsupported	d	
chimney height above firebox	x 25 ft.	12 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 vertical height, and a direct exit from the fireplace side.

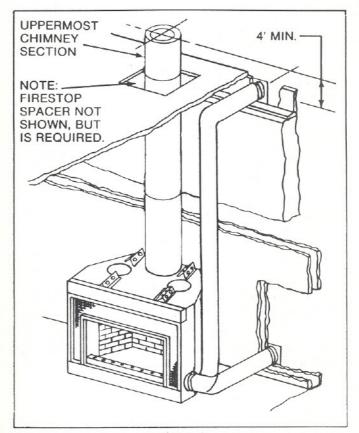


Figure 8
Outside Air Locations

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 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 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 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.

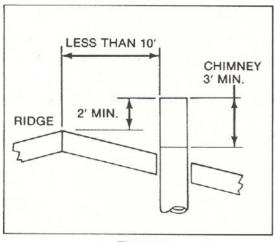
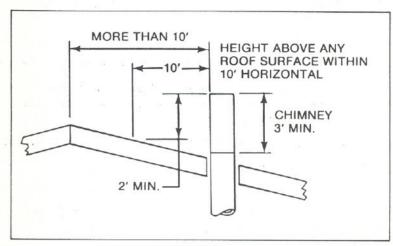


Figure 9 Chimney Height



Flaure 10 Chimney Height

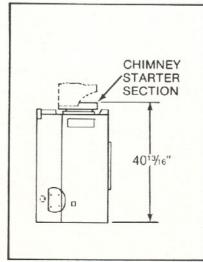
SELECTING THE CHIMNEY COMPONENTS

IF AIR COOLED CHIMNEY WAS SELECTED:

Figure 11 illustrates the height from the bottom of the fireplace to the top of the Chimney Starter Section. Proper assembly of Air Cooled Chimney Sections results in an overlap at chimney joints of 1-1/4".

Figure 12 and Table 1 enable selection of the appropriate chimney components when using Offsets and Returns.

1. Determine amount of offset required to extend the chimney through a wall or around an obstacle. See Figure 12, dimension "A"



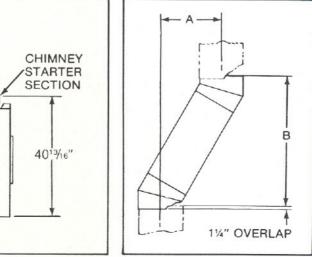


Figure 12 Chimney Offset/Return

Figure 11 Fireplace (Side View)

2. Refer to the appropriate chart 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 CREATE AN OFFSET GREATER THAN 30° FROM VERTICAL. THIS MAY CREATE A FIRE HAZARD SINCE THE NATURAL DRAFT MAY BE RESTRICTED.

- 3. Find the "B" dimension on the appropriate chart and determine if it is compatible with your installation.
- 4. Read across the chart and find the Catalog Number and number of Chimney Sections required. If using AC series twist lock the last column indicates the number of Joint Bands needed. SL series snap lock does not require the use of Joint Bands between an Offset and Return.
- 5. Refer to the Step-By-Step Installation Instructions following the charts.
- 6. All joist areas must be Firestopped.

30° Offset Chart

TABLE 1 (Dimensions in Inches)

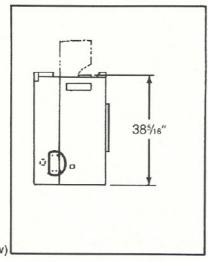
Α	В	AC506 SL506	AC512 SL512	AC518 SL518	AC536 SL536	AC548 SL548	JB577*
31/8	147/16	_	_	_	_	_	1
61/4	18%6	1	_	_	_	_	2
91/4	233/4	_	1	_		_	2
121/4	2815/16	_	_	1		_	2
145/8	331/16	_	2	_	_	_	3
175/8	381/4	_	1	1	_	_	3
211/4	44%16	_	_	_	1	_	2
235/8	4811/16	1	_	_	1	_	3
271/4	553/4	_	_	_		1	2
295/8	591/16	1	_	_	_	1	3
325/8	641/4	_	1	_	_	1	3
35%	697/16	_	_	1		1	3
38	73%16	_	2	_	_	1	4
41	783/4	_	1	1		1	4
445/8	851/16	_	_	_	1	1	3
47	89%	1	_	_	1	1	4
505/8	957/16	_	_	_	_	2	3

^{*}NOTE: Joint Bands, JB577, are not required for use with SL series - snap lock. AC series - twist lock - must use a Joint Band over each Chimney Section joint between an Offset and Return.

IF INSULSTACK® CHIMNEY WAS SELECTED:

Figure 13 illustrates the height from the bottom of the fireplace to the top of the chimney adapter.

Figure 14 and Tables 2 or 3 enable selection of the appropriate chimney components when using Offsets and Returns.



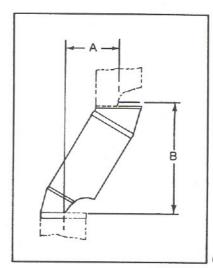


Figure 14 Chimney Offset/Return

- Figure 13 Fireplace (Side View)
 - 1. Determine amount of offset required to extend the chimney through a wall or around an obstacle. See Figure 14, dimension "A".
 - 2. Determine the chimney components necessary for an INSULSTACK® Chimney installation by following Steps 2 through 6, listed on page 14.

FOR INSULSTACK® CHIMNEY ONLY

TABLE 2—15° Offset Chart
(Dimensions in Inches)

IC806 IC812 IC824 IC836 JB877 23%" 11%" 1 4" 173/4" 2 1 51/2" 231/2" 1 1 3 71/8" 291/4" 1 2 8%" 35%" 1 1 3 101/4" 40%" 1 2 1134" 4634" 1 1 3 131/4" 521/2" 2 3 14%" 581/4" 1 2 4 16%" 641/8" 1 1 4 18" 69%" 1 1 1 5 191/2" 75%" 2 3 21" 811/2" 1 2 4 22%" 871/4" 1 2 4 241/8" 93" 1 1 2 5 253/4" 98%" 1 2 4

TABLE 3—30° Offset Chart (Dimensions in Inches)

Α	В	IC806	IC812	IC824	IC836	JB877
5¼"	13%"	1				2
81/4"	18¾"		1			2
11¼"	24"	1	1			3
14¼"	29%"			1		2
17¼"	34%"	1		1		3
20¼"	39½"				1	2
23¼"	44¾"	1			1	3
26¼"	50"			2		3
29¼"	551/8"	1		2		4
32¼"	60%"			1	1 1	4
35¼"	651/2"	1		1	1	5
38¼"	70¾"				2	3
411/4"	75%"	1			2	4
44¼"	811/8"		1		2	4
47¼"	86%"	1	1		2	5
50¼"	911/2"			1	2	4

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 of the fireplace. See Figure 4. 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

IF INSULSTACK® CHIMNEY WAS SELECTED:

Assemble the first section to the top of the fireplace. It may be either a straight Pipe Section or an Offset. If an Offset is used, it must be turned to its final position and locked in place with size 10 sheet metal screws provided with the Offset. Drill three 1/8" holes in the fireplace collar using the predrilled Offset holes as a template. See Figure 15.

IF AIR COOLED CHIMNEY WAS SELECTED:

Two styles of Air Cooled Chimney are available for use with this fire-place, AC series - twist lock, or SL series - snap lock. Choose one of these and assemble the appropriate Starter Section (AC500 or SL500) to the fireplace top. Securely lock it to the fireplace by a final short, quick motion. Assemble either a straight Pipe Section or an Offset to the Starter Section. When using AC series - twist lock, always secure all Offsets and Pipe Sections with the screws provided.

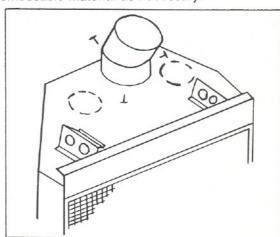


Figure 15
Offset Secured to Fireplace

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

IF INSULSTACK® CHIMNEY WAS SELECTED:

Install the Firestop Spacer FS838 (Straight), FS839 (15° Offset, if Offset is located in the ceiling joist area), or FS840 (30° Offset, if Offset is located in the ceiling joist area). WSP841 is needed if the chimney penetrates a wall. See Figure 16. All 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 the fireplace side. When the space above the ceiling is an attic space, then the top pan that comes with the Firestop must also be used. Nail the top pan 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. See Figure 17. Firestop Spacers must be used at all ceiling levels where a chimney penetrates a living space.

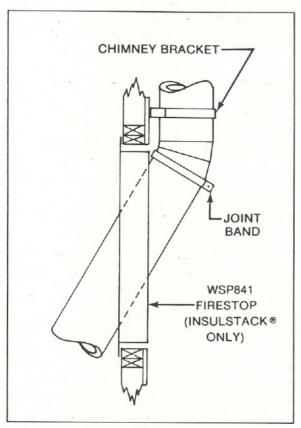


Figure 16
Chimney Installation with Wall Firestop

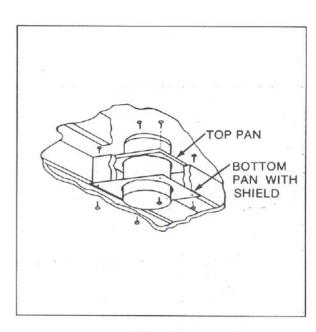


Figure 17
Straight Firestop with Top Pan

IF AIR COOLED CHIMNEY WAS SELECTED:

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.

IF INSULSTACK® CHIMNEY WAS SELECTED:

The maximum straight unsupported height is 12 feet above the firebox, and 25 feet between Chimney Stabilizers.

IF AIR COOLED CHIMNEY WAS SELECTED:

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 18 and 19.

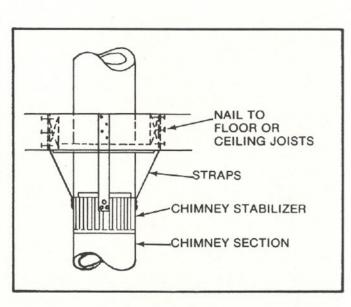


Figure 18 Chimney with Stabilizer

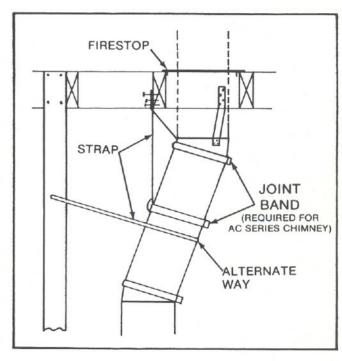


Figure 19 Offset/Return Installation

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 to mark the center.
STEP 10
IF INSULSTACK® CHIMNEY WAS SELECTED:
Measure to either side of the nail and mark the $14\frac{1}{2}$ " x $14\frac{1}{2}$ " opening required. This $14\frac{1}{2}$ " x $14\frac{1}{2}$ " 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.
IF AIR COOLED CHIMNEY WAS SELECTED:
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
IF INSULSTACK® CHIMNEY WAS SELECTED:
Install the Roof Flashing appropriate to the roof pitch. Assemble the Storm Collar to protect against rain entering around the outside of the chimney, and add the Chimney Terminal Cap. The Terminal Cap must be one of the following: RT874 (Round), ST875 (Square), or ST8 (Housing Top) with RB4, TB4, RB6 or TB6 Simulated Brick Panels.
IF AIR COOLED CHIMNEY WAS SELECTED:
the outside of the chimney, and add the Chimney Terminal Cap. The Terminal Cap must be one of the following: RT582 (Telescoping-Round), RT584 (Round), ST575 (Square), or ST8 (Housing Top) with RB4, TB4, RB6 or TB6 Simulated Brick Panels.
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
Install Fans if desired, using the Instructions supplied with the FK36A Fan Kit.
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NOTE: The framing on either side of the fireplace must be notched or drilled to allow for the passage of the electrical conduit into the junction box. It is recommended that this hole or notch be provided prior to nailing adjacent studs in position, to allow sufficient work space.

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

☐ STEP 14

sure blocks from STEP 1 have been removed.

STEP 15
Knockouts are provided on the right hand side of the fireplace to allow for connection of a decorative gas appliance, in accordance with the National Fuel Code, ANSI Z223.1-1980. The side 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.
accordance with the National Fuel Code, ANSI Z223.1-1980. The side refractory is designed to allow 1/2" iron

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 16
Install Outside Air if desired or required by local code, using the Instructions supplied with the AK36-A Air Kit.
STEP 17
Install Glass Doors if desired, using the Instructions supplied with these optional accessories. 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 about two inches in front of the fireplace bottom front. See Figure 4. Seal the crack between the Hearth Extension and fireplace with a non-combustible (sand-cement) grout.
STEP 19
Apply the finish materials of your choice. Do not install combustible materials over the black face of the fireplace or screened openings. You may use non-combustible material over the black - non-screened - face of the fireplace.
STEP 20
This fireplace is equipped with a factory installed Integral 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. Use only Catalog Number GR36-1 Integral Grate for replacement.
STEP 21
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 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. It is most commonly constructed on an outside wall as shown below.

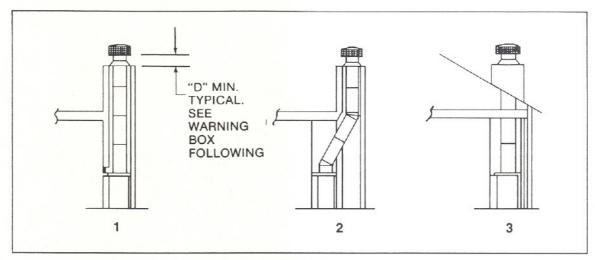


Figure 20 Chase Constructions

WARNING

DIMENSION "D" SHOWN IN FIGURE 20, CHASE CONSTRUCTIONS, VARIES WITH CHIMNEY STYLE. FOR AIR COOLED CHIMNEY, DIMENSION "D" MUST BE SIX INCHES MINIMUM. FOR INSULSTACK®, DIMENSION "D" MUST BE THREE FEET MINIMUM.

Three examples of chase applications are shown in Figure 20:

- 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 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.

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 (RT584 or RT874), the last section of Pipe must extend above the Chase Top to allow installation of the Storm Collar and Terminal Cap - see WARNING on page 21 for required distance. For installations utilizing a Telescoping Round Terminal Cap (RT582), the last Chimney Section must not be more than 15" below or 3" above the Chase Top. If a Square Terminal Cap (ST575 or ST875) is utilized, see separate Installation Instructions.

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 AND BETWEEN CHASE AND CHASE TOP. 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 to the top of the chase.

IF INSULSTACK® CHIMNEY WAS SELECTED:

Use CT36 Chase Top.

IF AIR COOLED CHIMNEY WAS SELECTED:

Use CT56 Chase Top.

- Loosen the bolt on the Storm Collar and slide it down over the Pipe to the Chase Top. Tighten the bolt and seal around the Collar.
- 5. Attach and secure either a Round or Square Terminal Cap.

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 wood handle is raised out of any notch, the handle should move toward the full open position. Verify by looking up from the inside of the firebox. When intermediate notches are provided, they have all been tested, but downdrafts, obstructions, damage, or poor (wet) fuels can cause smoke spillage. Always operate with the damper fully open when factory provided intermediate notches are not provided.

WARNING

DO NOT MODIFY DAMPER PLATE BY PROVIDING INTERMEDIATE NOTCHES NOT SUPPLIED BY THE FACTORY. THIS CAN RESULT IN SEVERE OVERTEMPERATURES AND POSSIBLE FIRE. THE FIREPLACE MUST BE OPERATED WITH THE DAMPER IN THE FULL OPEN POSITION, OR IN THE FACTORY PROVIDED INTERMEDIATE NOTCHES.

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 monthly 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.
 - Open damper.
 - 2. Hang a damp sheet across the fireplace opening to stop dirt and soot from entering the room.
 - 3. Remove Terminal Cap or Housing Top. See Figure 1.
 - 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 flue until clean.
 - 5. Replace Terminal Cap or Housing Top.

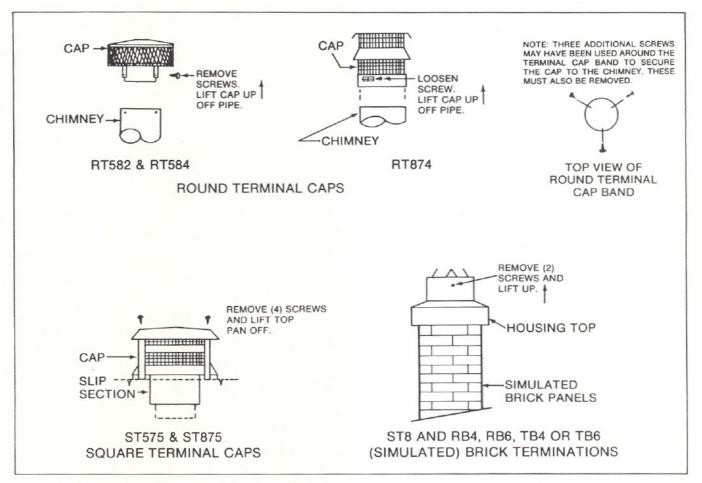


Figure 1
Terminal Caps

- D. CLEAR SPACE NEAR FIREPLACE. The Hearth Extension must extend at least 16 inches to the front and 8 inches on either side of the firebox opening. Combustible materials must not be stored in this area. Combustible walls perpendicular to the front of the fireplace must be at least 2 feet from the fireplace opening. Room furnishings such as drapes, curtains, chairs, or other combustibles must be at least 4 feet from the open front of the fireplace.
- E. GRATE. The factory installed Integral Grate must be used to hold the logs from falling out of an open fireplace and to allow air to pass between the burning logs. It is important to keep the fire off the hearth and to allow the ashes to collect beneath the fire, thereby forming a layer of additional heat protection. See Figure 2. Use only Catalog Number GR36-1 Integral Grate for replacement.

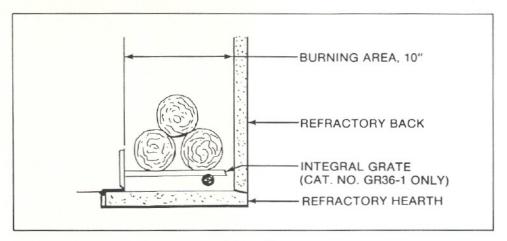


Figure 2 Section Through Fireplace

- F. FIRESCREEN. A firescreen is always provided to control sparks. It 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.
- G. OUTSIDE AIR. A damper allows individual control of the Outside Air inlets if your fireplace is equipped with this option. 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.

H. SETTING THE FIRE. Check the flue damper to be sure it is fully open. Place crumpled or twisted paper under the Grate. 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 2, being sure to allow free air space between the logs. Small sticks of wood may be used to separate the logs. 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.

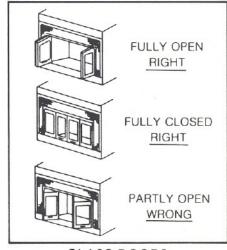
CAUTION

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.

- I. 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.
- J. GLASS DOORS. Most efficient fireplace operation using Glass Doors is with the Doors open, as can be felt when standing in front of the fireplace. When not burning the fireplace, Glass Doors will prevent loss of room heat through the chimney. Only HEATILATOR® Glass Doors, Catalog, Numbers GS36A, GS36B, GS36T or GD36, may be used.

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.



GLASS DOORS

K. 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 THE BACK WALL OF THE FIREPLACE. THE RATE OF FIRING MUST NOT EXCEED THESE THREE LOGS PER HOUR.
- L. FAN KIT. HEATILATOR® FK36A 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. Use of these dual fans will increase efficiency and heat output.
- M. 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.

9-12-86 F 26. 10195

Attention Fireplace Installer:

Please return operating and installation instructions to the firebox for consumer use.

