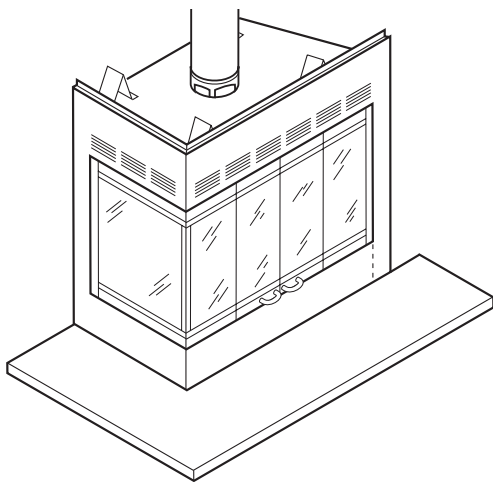




## INSTALLATION AND OPERATION INSTRUCTIONS

### Custom Series Multi-Sided Wood burning Fireplaces



REPORT NO. 09-146

P/N 126607-01 Rev. A 12/10/13

### MODELS

WRT40CRWSI  
WRT40CLWSI  
WCT40CRWSI  
WCT40CLWSI



P126607 01



We recommend that our woodburning hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Woodburning Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).



### KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

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

This fireplace is approved for use as a wood burning fireplace or for use with a vented gas log approved to ANSI Z21.60, Z21.84 standards or for use with a vent-free gas log heater approved to ANSI Z21.11.2 standard. An INNOVATIVE HEARTH PRODUCTS, LLC hood must be installed when using a vent-free log heater (see Accessories, page 16).

This wood burning fireplace complies with UL127-CAN/ULC-S610-M87 standard as a **FACTORY BUILT APPLIANCE**.

**FOR CANADA:** The authority having jurisdiction (such as the municipal building department, fire department, etc.) should be contacted before installation to determine the need to obtain a permit.

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

**Thank you for your purchase. We appreciate your business!**

Please carefully read and follow all instructions in this manual. **Pay special attention to all warnings and safety information.**

Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

**Register your product online today!**

To help us keep you up-to-date on product information and offers, please take a few moments to register your product online at [www.Superiorfireplaces.US.com](http://www.Superiorfireplaces.US.com) (**Owner Resources/Product Registration**).

**Please read and understand these instructions before installing or operating.**

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## SAFETY

**⚠ WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury, property damage or loss of life. Refer to this manual for assistance or additional information. Consult a qualified installer or local distributor.**

**IMPORTANT: Check local codes before installing this fireplace.**

This fireplace model is a wood burning fireplace intended and approved for installation in either residential homes or buildings of standard construction. This fireplace system requires the utilization of INNOVATIVE HEARTH PRODUCTS, LLC's (IHP) 8", double-wall, and snap lock flue pipe system. Optional glass doors in several finishes are available for this fireplace (see Replacement Parts, page 15 and Accessories on page 16).

Before beginning installation of this fireplace, read these instructions through completely.

- This IHP fireplace and its components are safe when installed according to this installation manual. Unless you use IHP components, which have been designed and tested for the fireplace system, you may cause a fire hazard.
- The IHP warranty will be voided by and IHP disclaims any responsibility for the following actions.
  - a. Modification of the fireplace, components, doors, air inlet system and damper control.
  - b. Use of any component part not manufactured or approved by IHP in combination with an IHP fireplace system.

Proper installation is the most important step in ensuring safe and continuous operation of the fireplace. Consult the local building codes as to the particular requirements concerned with the installation of all factory built fireplaces.

**⚠ WARNING: Do not install a fireplace insert in this fireplace unless the manufacturer's instructions with the insert specifically state this fireplace has been tested for use with this insert.**

### FOR YOUR SAFETY

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

**⚠ WARNING: Use solid wood or processed solid fuel fire logs only. "Do not poke or stir the logs while they are burning. Use only firelogs that have been evaluated for the application in fireplace and refer to firelog warnings and caution markings on packaging prior to use."**

**This fireplace is not intended to be used as a substitute for a furnace to heat an entire home. Use for supplemental heat only.**

**Ovefiring of a fireplace is a condition where excessive temperatures are reached, beyond the design capabilities of the appliance. The damage that occurs from ovefiring is not covered under the manufacturer's limited warranty.**

## SAFETY *Continued*

**⚠ WARNING: CONTINUED OVERFIRING CAN PERMANENTLY DAMAGE YOUR FIREPLACE SYSTEM. SOME EXAMPLES OF CONDITIONS THAT COULD CAUSE OVERFIRING ARE:**

- BURNING QUANTITIES OF SCRAP LUMBER, PINE BRANCHES, PAPER OR CARDBOARD BOXES WHICH EXCEED THE VOLUME OF THE NORMAL LOG FIRE.
- BURNING TRASH, CHEMICALS OR CHEMICALLY TREATED COMBUSTIBLES.

### "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 noncombustible 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."

**"WHEN USING THE DECORATIVE APPLIANCE, THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION."**

**"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."**

Use **SOLID WOOD** only for fuel. It is best to use dry and well seasoned hardwood. Softwoods tend to burn very quickly. **DO NOT** use treated wood, charcoal, coal, trash, driftwood or woods that have been dipped in tar, pitch, pine tar, creosote, etc. Wood products made with synthetic binders, such as plywood, produce abnormally high temperatures and sputtering, smoking fires. When burning artificial logs, please read and follow the instructions provided by the manufacturer.

Never burn treated construction lumber or scraps. These woods burn excessively hot and may contain chemicals used to treat insects and fungus. When burned, these chemicals can pose a significant hazard.

**⚠ WARNING: BURNING IMPROPER FUEL (I.E. CHARCOAL) CAN RESULT IN CARBON MONOXIDE POISONING, WHICH MAY LEAD TO DEATH!**

Carbon Monoxide Poisoning – Early signs of carbon monoxide poisoning resemble the flu with headaches, dizziness, or nausea. If you have these signs, get fresh air at once! Have the appliance inspected by a qualified service technician. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

**Ventilation Requirements - Provide adequate air for combustion. The fresh air requirements of this appliance must be met within the space where it will be installed.**

**Smoke Detectors - Since there are always several potential sources of fire in any home, we recommend installing smoke detectors. If possible, install the smoke detector in a hallway adjacent to the room (to reduce the possibility of occasional false activation from the heat produced by the appliance). If your local code requires a smoke detector be installed within the same room, you must follow the requirements of your local code. Check with your local building department for requirements in your area.**

### "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 shall be inspected at least twice a year during the heating season to determine when a creosote buildup has occurred. When creosote has accumulated (1/8" [3 mm] or more) it shall be removed to reduce the risk of a chimney fire."

## SAFETY *Continued*

**⚠ WARNING:** Always leave glass doors fully opened or fully closed when operating fireplace.

**⚠ WARNING:** Children and adults should be alerted to the hazards of high surface temperatures and to stay away to avoid burns or clothing ignition. Young children should be carefully supervised when in the same room as fireplace.

## DIMENSIONS

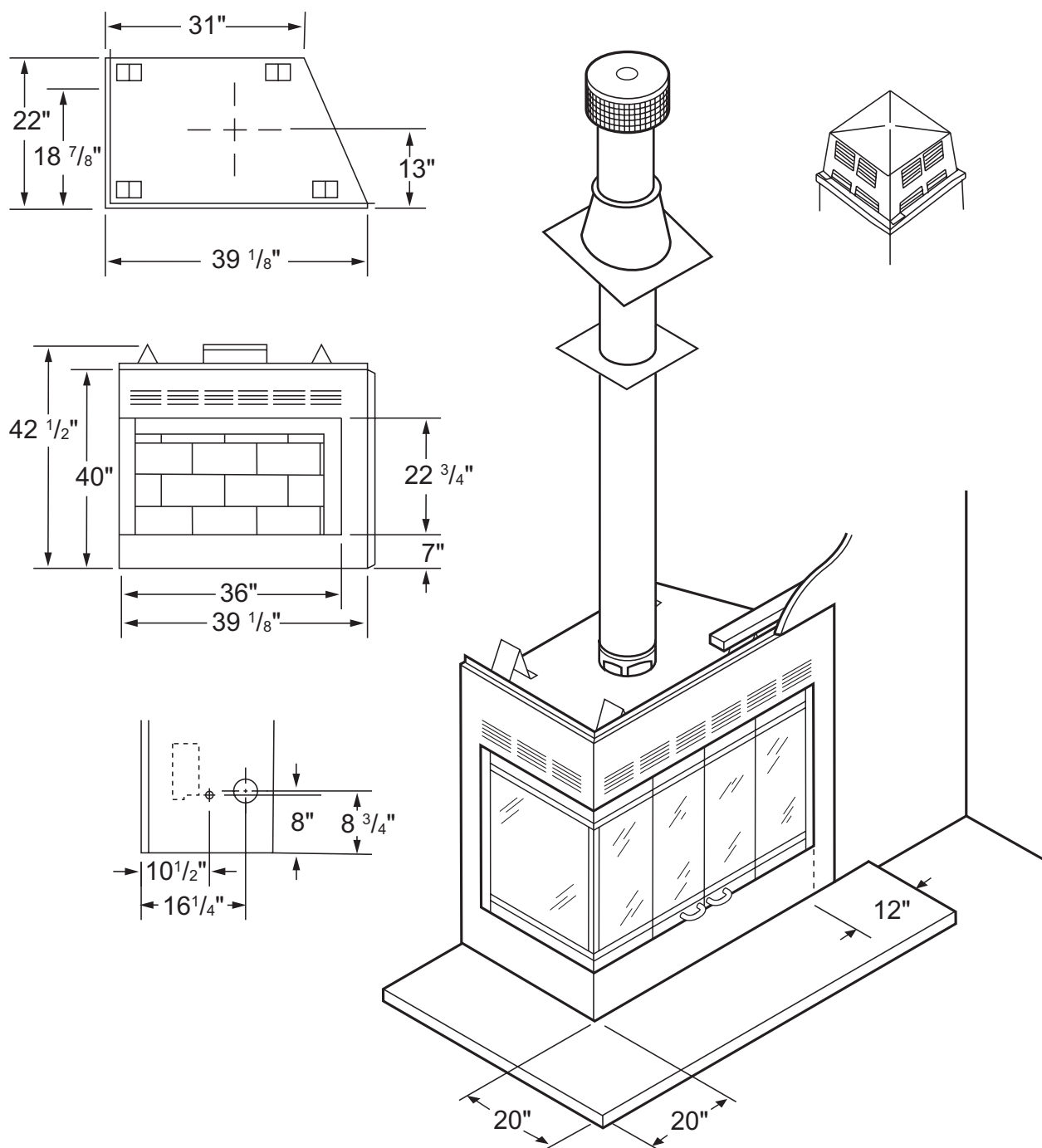


Figure 1 - Dimensions

## FIREPLACE INSTALLATION

### GLOSSARY

**Flush Installation** - type of installation where front face of fireplace is even or level with wall.

**Chase Installation** - type of installation where chimney is enclosed.

**Perpendicular Side Wall** - applies to minimum clearance between side wall and fireplace opening.

**Nailing Flange** - extended part on both sides of fireplace face that secures fireplace to wall.

**Termination** - cap that is placed at end of chimney pipe.

### SELECTING LOCATION

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

1. The location must allow for proper clearances (see below).
2. Consider a location where the fireplace will not be affected by drafts, air conditioning ducts, windows or doors.
3. A location that avoids the cutting of joists or roof rafters will make installation easier.
4. If an outside air kit is to be installed, accessibility to outside combustion air must be considered. This can also be achieved through a vented crawl space in some cases (see Optional Outside Air Kit on page 7).
5. If gas line is to be installed, consider location of gas supply.

### MINIMUM CLEARANCE TO COMBUSTIBLES

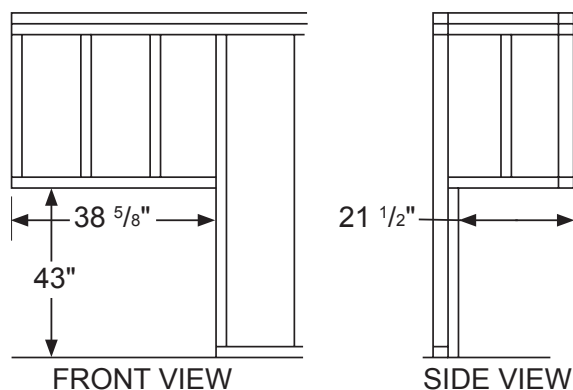
Back and sides of fireplace	3/4" minimum*
Top spacers	0"
Perpendicular side wall to opening of unit	14" minimum
Bottom of fireplace to floor (step 2 of Framing)	0" minimum
Mantel clearances	see <a href="#">Mantel clearances</a> , page 6
Chimney outer pipe surfaces	2" minimum
Chase inside dimension	16 1/2" minimum

**⚠ WARNING: DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.**

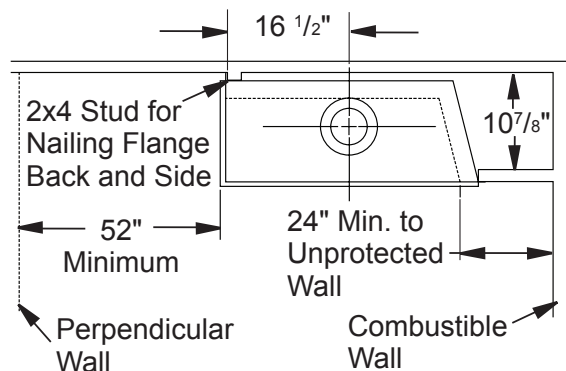
**Do not obstruct fireplace openings (ie. louvers, etc.) with any type of facing material. Combustible material must not be in contact with back of front face of fireplace.**

### FRAMING

1. Frame opening for fireplace using dimensions shown in Figures 2 and 3.
2. If fireplace is to be installed directly on carpeting, tile (other than ceramic) or any combustible material other than wood flooring, fireplace must be installed upon a metal or wood panel extending full width and depth of fireplace.
3. Set fireplace directly in front of this opening and slide unit back until nailing flanges touch side framing.
4. Check level of fireplace and shim with sheet metal if necessary.

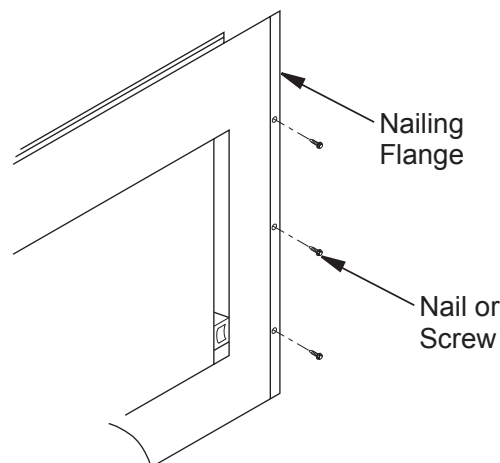


**Figure 2 - Framing Dimensions**



**Figure 3 - Corner Installation**

5. Before securing fireplace to prepared framing, ember protector (provided) must be placed between hearth extension (not supplied) and under bottom front edge of fireplace to protect against glowing embers falling through. If fireplace is to be installed on a raised platform, a Z-type ember protector (not supplied) must be fabricated to fit your required platform height. Ember protector should extend under fireplace a minimum of 1". Ember protector should be made of galvanized sheet metal (28 gauge minimum) to prevent corrosion (see Figure 5).
6. Using screws or nails, secure fireplace to framing through flanges located on sides of fireplace (see Figure 4).



**Figure 4 - Nailing Flanges**

## HEARTH EXTENSION

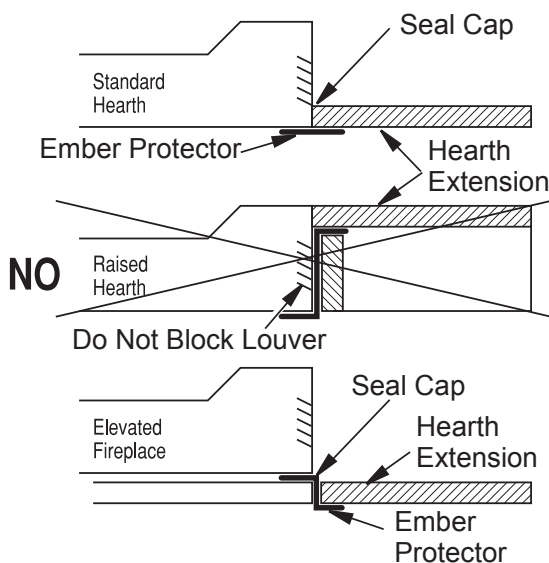
A hearth extension projecting a minimum of 20" in front of and a minimum of 12" beyond each side of fireplace opening is required to protect combustible floor construction in front of fireplace. Fabricate a hearth extension using a material which meets the following specifications: a layer of noncombustible, inorganic material having a thermal conductivity of  $k = .84 \text{ BTU IN/FT}^2 \text{ HR } ^\circ\text{F}$  (or less) at 1" thick. For example, if material selected has a  $k$  factor of 0.25, such as glass fiber, the following formula would apply:

$$\frac{0.25}{0.84} \times 1.0" = 0.30" \text{ thickness required}$$

0.84

Thermal conductivity "k" of materials can be obtained from manufacturer or supplier of noncombustible material. If hearth extension is to be covered, use noncombustible material such as tile, slate, brick, concrete, metal, glass, marble, stone, etc. Provide a means to prevent hearth extension from shifting and seal gap between fireplace frame and hearth extension with a non-combustible material such as sand-cement grout (see Figure 3, page 5).

**⚠ WARNING: Hearth extension is to be installed only as shown in Figure 5.**

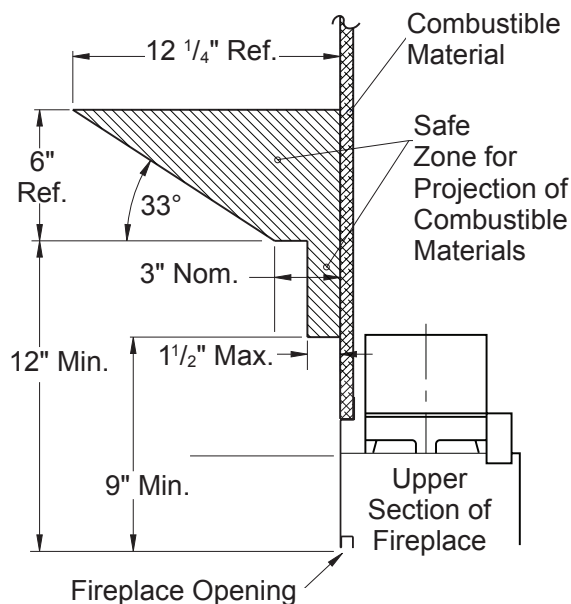


**Figure 5- Hearth Extensions**

## MANTEL CLEARANCES

Woodwork such as wood trims, mantels or any other combustible material must not be placed at least 9" above opening of fireplace (see Figure 6, page 6). Combustible materials above 9" and projecting more than 1 1/2" from the fireplace front face must not be at least 12" above fireplace opening (NFPA 211, Section - Clearance from Combustible Material).

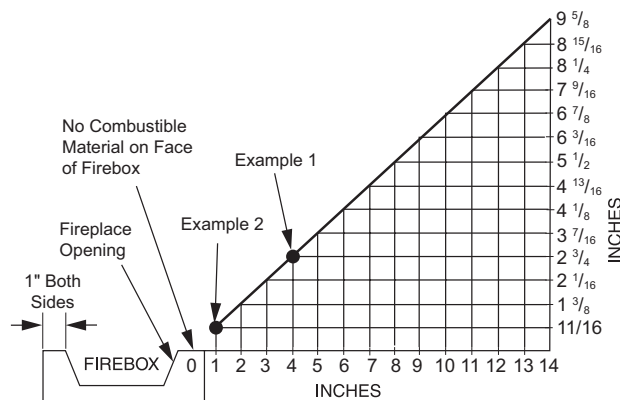
Mantels or any other combustible material may also come up to the side edge of the black metal face of the fireplace. Clearances from side of fireplace to any combustible material and wall should fall within the limits shown in Figure 7.



**Figure 6 - Mantel Clearances**

**Example 1:** The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 2 3/4" from the wall on which the fireplace is installed. The combustible material must be a minimum of 4" from side of fireplace opening.

**Example 2:** The face of a mantel, bookshelf, etc. is made of combustible material and protrudes 11/16" from the wall on which the fireplace is installed. The combustible material can butt up against side of fireplace (i.e. 1" from fireplace opening).



**Figure 7 - Minimum side clearances**



## VENTING INSTALLATION

### OPTIONAL OUTSIDE AIR KIT (MODELS AK4 OR AK4F)

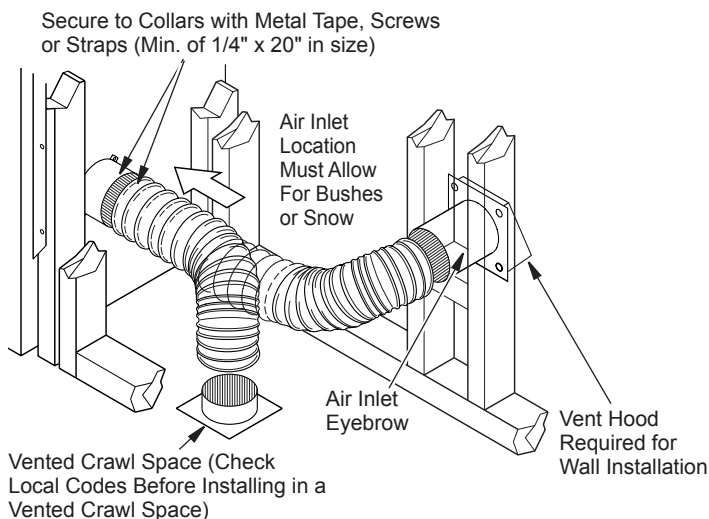
The installation of an outside air kit should be performed during the rough framing of the fireplace due to the nature of its location. Outside combustion air is accessed through and exterior wall (AK4) or a vented crawl space (AK4F). See Figure 8 and Accessories on page 16.

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

**⚠ CAUTION: Combustion air inlet ducts shall not terminate in attic space.**

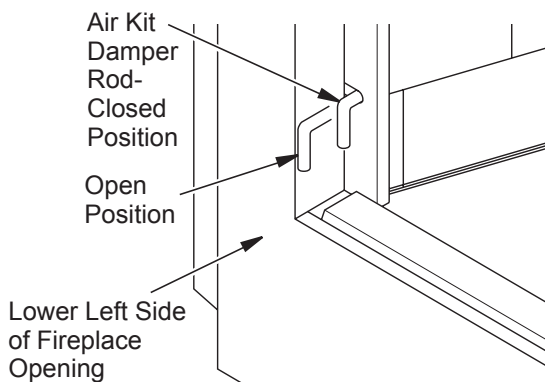
**The maximum height for the air vent can not exceed 3 feet below the flue gas outlet of the termination.**

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



**Figure 8 - Air Kit Installation**

Outside air handle is located on left-hand side of fireplace refractory (see Figure 9, Model WRT40CRWSI shown). To close, pull down; to open, push up. Always open mechanism when starting a fire to provide adequate outside combustion air. Close mechanism when not in use to prevent cold air from entering room.



**Figure 9 - Air Kit Damper Rod**

### CHIMNEY SYSTEM

#### Chimney height

Minimum chimney height measured from bottom of fireplace to flue gas outlet-end of termination is:

Straight run	14 feet
Run with one elbow set	15 feet
Run with two elbow sets	24 feet

An elbow set consists of one starter elbow and one return elbow. Uncommon circumstances such as neighboring hills, tall trees, or strong wind areas can cause downdrafts in chimney system. In such cases, going beyond minimum recommended height would be preferable to provide a better draw.

Maximum height approved for any chimney run with this fireplace system is 60 feet as measured from fireplace bottom to flue outlet end of termination.

#### Double Wall Chimney System

An IHP chimney system consists of 12", 18", 24", 36" and 48" snap-lock, double-wall pipe segments, planned for maximum adaptability to individual site requirements. Actual lengths gained after fitting overlaps must be taken into consideration (lineal gain) and are given in lineal gain chart (see Figure 10, page 8).

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

Each double wall chimney section consists of a galvanized outer pipe, a stainless steel inner flue pipe and a wire spacer. Pipe sections must be assembled independently as chimney is installed. When connecting chimney directly to fireplace, inner flue pipe section must be installed first with lanced (female) side up (see Figure 10, page 8). Outer pipe section can then be installed over flue pipe section with hemmed (male) end up. Press down on each pipe section until lances securely engage hem on fireplace starter. The wire will assure proper spacing between inner and outer pipe sections.

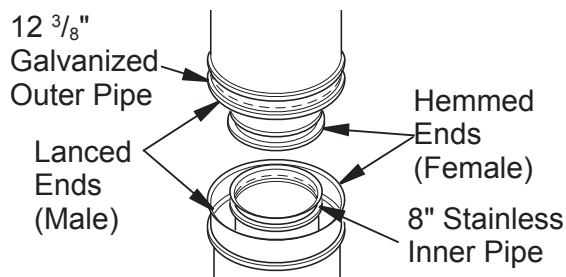
Continue to assemble chimney sections as outlined above, making sure both inner and outer pipe sections are locked together.

When installing double wall snap-lock chimney together, it is important to assure the joint between chimney sections is locked. Check by pulling chimney upward after locking. Chimney will not come apart if properly locked. It is not necessary to add screws to keep chimney together. However, if desired, use screws per directions provided on page 8, Figure 11.

**Note:** For Canada, use chimney parts designated HT.

## VENTING INSTALLATION *Continued*

**⚠ WARNING:** The opening in collar around chimney at top of fireplace must not be obstructed. Never use blown insulation to fill chimney enclosure.



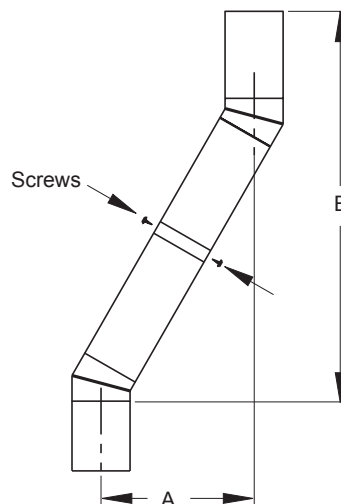
LINEAL GAIN		
PART NO.	DESCRIPTION	GAIN
36"	Fireplace	42"
12-8DM	Pipe Section	10 5/8"
18-8DM	Pipe Section	16 5/8"
24-8DM	Pipe Section	23 5/8"
36-8DM	Pipe Section	34 5/8"
48-8DM	Pipe Section	46 5/8"
RT-8DM	Round Termination	6 7/8"
RTL-8DM	Round Termination	7 3/4"
RTT-8DM	Round Termination with Slip Section	6 7/8" to 23 1/8"
RTTL-8DM	Round Termination with Slip Section	7 3/4" to 21 1/2"
ET-8DM	Square Chase Termination	12"
ETL-8DM	Square Chase with Slip Section	7" to 15"
ETO-8DM	Square Chase with Mesh	12"
ETLO-8DM	Square Chase with Mesh and Slip Section	12" to 21 1/2"

\*Lineal Gain for Terminations is measured to Flue Gas Outlet Height.

**Figure 10 - Lineal Gain**

OFFSET A	RISE B	CHIMNEY LENGTH				
		48"	36"	24"	18"	12"
4 3/8"	16 3/8"	ELBOW SET ONLY				
9 3/4"	25 1/2"					1
12 3/4"	30 3/4"				1	
15"	34 3/4"			1		
18"	40"				1	1
21 1/4"	46 1/4"		1			
23 3/4"	49 1/4"			1	1	
27 3/4"	56 3/4"	1				
30"	60 3/4"		1		1	
33"	66"	1				1
36"	71"	1			1	
38 1/4"	75"		2			
41 1/4"	80 1/4"		1		1	1
45"	86 3/4"		2			
46 3/4"	89 1/2"	1			1	1
51"	97"	1	1			
53 1/4"	101"		2		1	
56 1/4"	106 1/4"	2				
59 1/4"	111 1/2"	1	1		1	
61 3/4"	115 1/2"	2				1
64 3/4"	120 3/4"	2			1	
68 1/4"	127"	1	2			
70"	130"	2			1	1
74 1/4"	137 1/2"	1	2			1
76 3/4"	141 1/2"	1	2		1	
79 3/4"	146 3/4"		4			

**OFFSET CHART (22-50 FT. SYSTEM HEIGHT)**



**Figure 11 - Raise and Offset**

### USING CHIMNEY OFFSETS

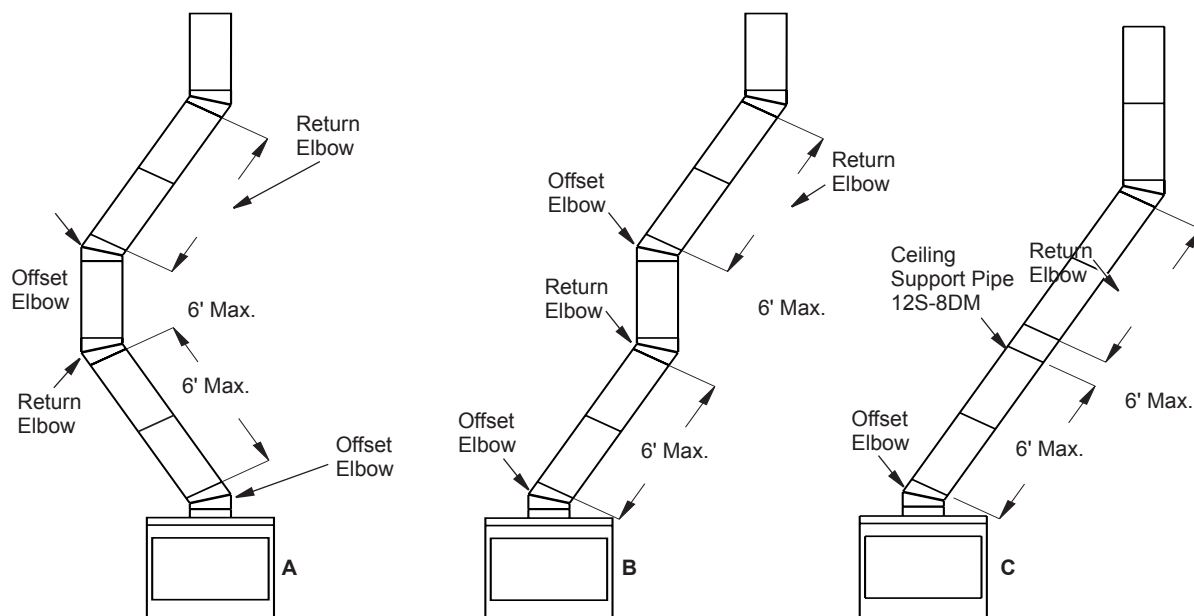
To achieve desired offset, you may install combinations of 12", 18", 36" and 48" length of double wall pipe (see offset chart and Figure 11, this page and Figure 12, page 9).

Chimney weight above offset rests on return elbow. Straps must be securely nailed to rafters or joists (see Figure 13, details A & B, page 9).

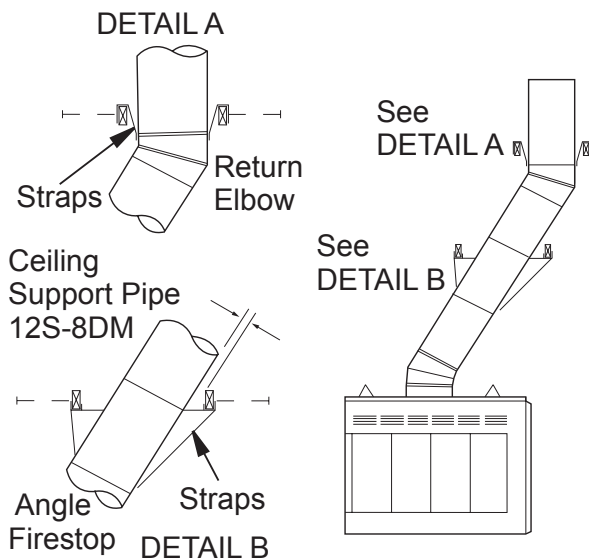
Maximum length of pipe between supports (return elbow or chimney support V12S-8DM) is 6' of angled run. Maximum of two 6' angled run sections per chimney system.



## VENTING INSTALLATION *Continued*



**Figure 12 - Typical Offset Installations**

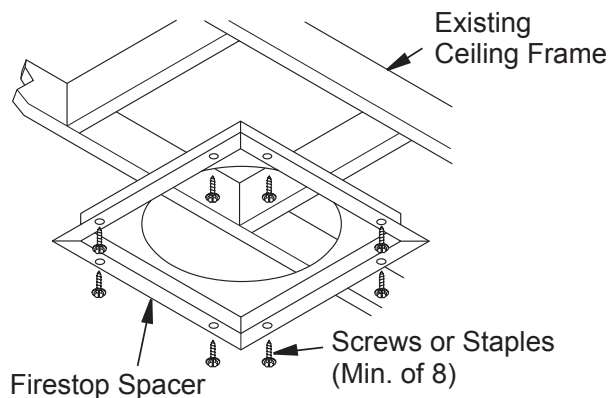


**Figure 13 - Chimney Supports**

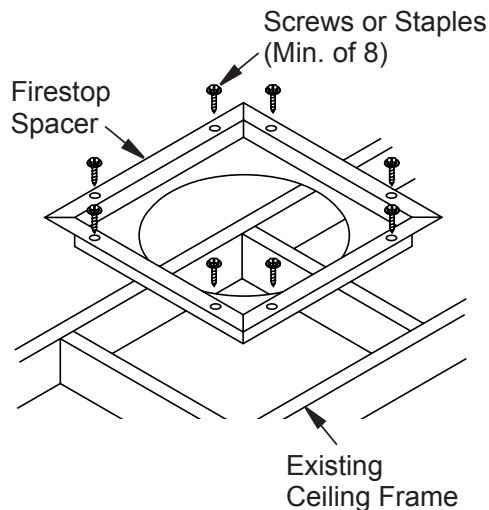
### FIRESTOP SPACERS (FS-8DM)

Firestop spacers are required at each point where the chimney penetrates a floor or ceiling joist space. Their purpose is to establish and maintain the required clearance between the chimney and the combustible materials.

When the pipe passes through a framed opening into a living space above, the firestop must be placed onto the ceiling from below as shown in Figure 14. When the pipe passes through a framed opening into an attic space above, the firestop must be placed on the attic floor as shown in Figure 15.



**Figure 14 - Firestop Spacer with Living Space Above Ceiling**

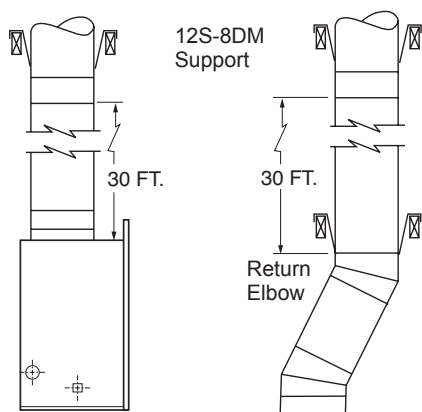


**Figure 15 - Firestop Spacer with Attic Space Above Ceiling**

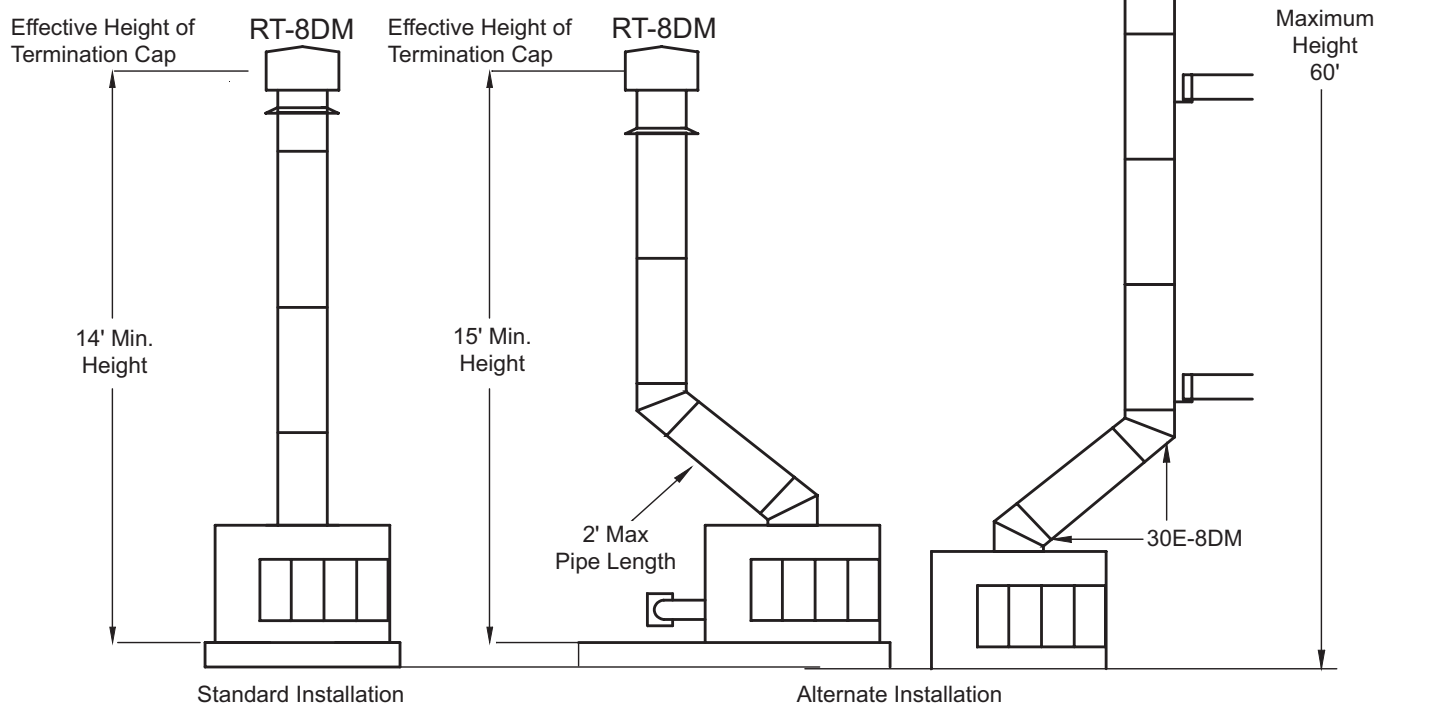
## VENTING INSTALLATION *Continued*

### SUPPORT SECTIONS (12S-8DM)

The chimney support section is a 4-strap 12" length of pipe. A chimney support is required at the 30' level above fireplace after a straight chimney run (see Figure 16). This support is designed to relieve extra weight load on fireplace and elbows when high chimneys are installed.



**Figure 16 - Support Sections**

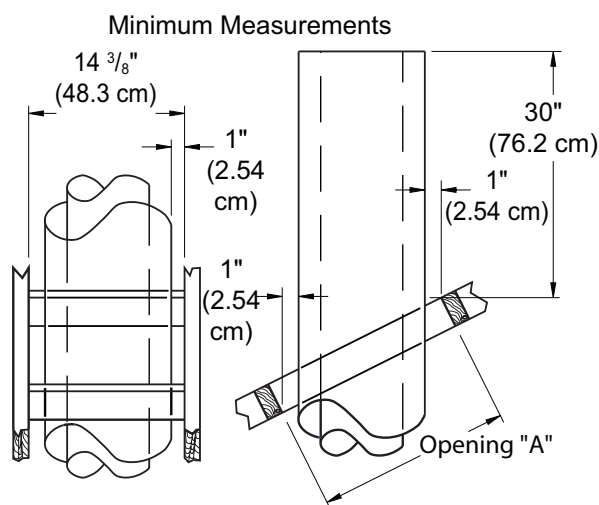


**Figure 17 - Typical Installation**

### PENETRATING ROOF

To maintain a 1" clearance to pipe on a roof with a pitch, a rectangular opening must be cut.

1. Determine center point where pipe will penetrate the roof.
2. Determine center point of the roof. Pitch is the distance the roof drops over a given span, usually 12". A 6/12 pitch means that the roof drops 6" for each 12" measure horizontally down from roof rafters.
3. Use roof opening chart (Figure 18) to determine correct opening length and flashing required.
4. Remove shingles around opening measured. Cut out this section.



Pitch	Slope	Opening "A" Max.	Used Flashing Model No.
Flat	0°	15"	V6F-8DM
0-6/12	26.6°	16 1/8"	V6F-8DM
6/12- 12/12	45.0°	20 3/8"	V12F-8DM

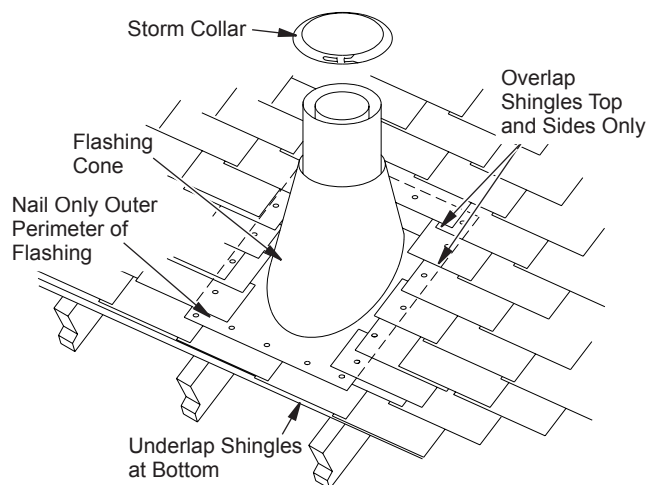
**Figure 18- Roof Opening Measurements**

5. Add next sections of pipe until end penetrates roof line. Check to see that proper clearances are maintained. Extend chimney by adding sections of double wall pipe until pipe is minimum of 30" above highest point of roof cutout. Termination and chimney must extend a minimum of 36" above highest point where it passes through the roof.

**⚠ IMPORTANT:** If an exposed portion of chimney is greater than 4' above roofline, use support wires to keep chimney secured. Support wires may be attached to outer pipe of chimney with screws provided screws do not penetrate inner flue pipe.

### FLASHING INSTALLATION

Determine flashing to be used with roof opening chart. Slide flashing over pipe until base is flat against roof. Replace as many shingles as needed to cover exposed area and flashing base. Secure in position by nailing through shingles (see Figure 19). **DO NOT NAIL THROUGH FLASHING CONE.**



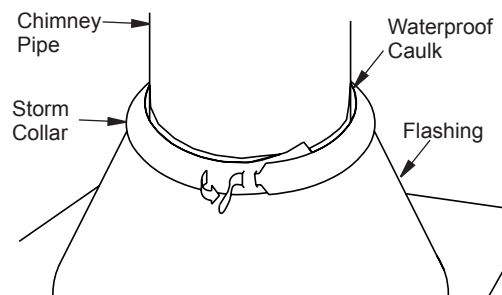
**Figure 19 - Flashing Installation**

### Installing Flashing on a Metal Roof

When installing flashing on a metal roof, it is required that putty tape be used between flashing and roof. Flashing must be secured to roof using #8 x 3/4" screws and then sealed with roof coating to prevent leakage through screw holes. A roof coating must also be applied around perimeter of flashing to provide a proper seal.

### STORM COLLAR INSTALLATION

Place storm collar over pipe and slide down until it is snug against open edge of flashing (see Figure 20). Use SC1 for all round terminations. Apply waterproof caulk around perimeter of collar to provide a proper seal.



**Figure 20 - Storm Collar**

### TERMINATIONS

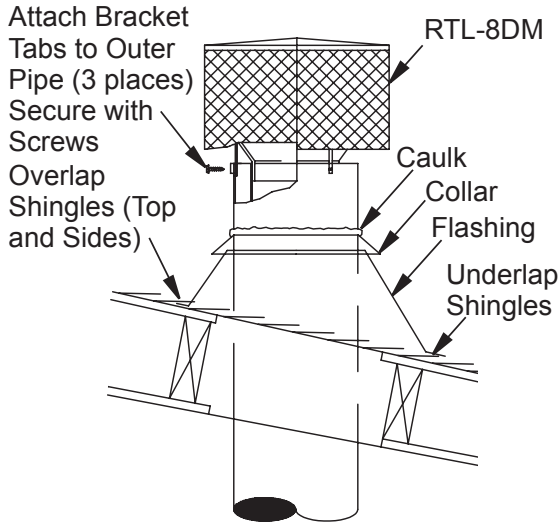
#### Standard Installation

The fireplace system must be terminated with the listed round top or chase terminations. Terminations approved for this fireplace are RTL-8DM, which can be used for flashing or chase and ETL-8DM for chase style termination only. Figure 21, page 12 shows an RTL-8DM round top termination.

Follow installation instructions provided with termination being used.

## VENTING INSTALLATION *Continued*

**⚠ CAUTION:** Do not seal openings on the rooftop flashing. Follow the installation instructions provided with the termination being used.

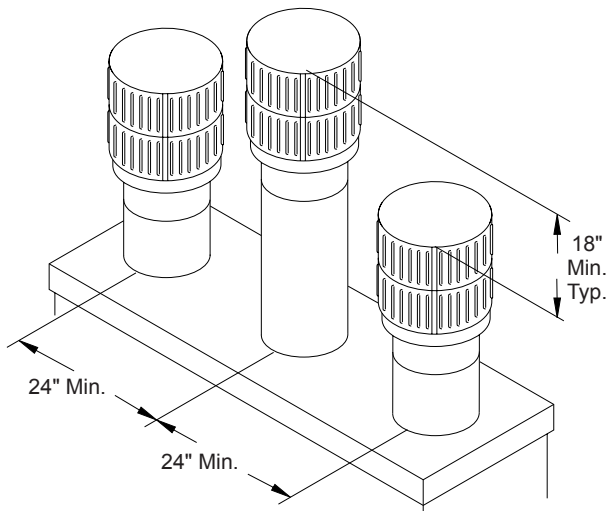


**Figure 21 - Termination**

### CHASE INSTALLATIONS

Instructions for chase installations are included with the chase style termination chosen. In a multiple chase installation, be sure to provide adequate distance between terminations to prevent smoke spillage from one termination to another. Terminations must be separated a minimum of 30" center to center and stacked at a minimum vertical height difference of 18" (see Figure 22).

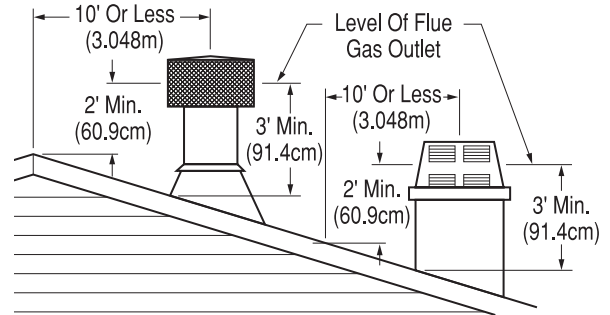
**Note:** If a decorative shroud is to be installed, contact the manufacturer for specifications.



**Figure 22 - Multiple Chase Installation**

### 10 FOOT RULE

All chimney terminations must extend a minimum of 3' above the highest point where it passes through the roof and must be at least 2' above roof with a 10' horizontal span (see Figure 23).



**Figure 23 - 10 Foot Rule**

### FINISHING FIREPLACE

Combustible materials, such as wallboard, gypsum board, sheet rock, drywall, plywood, etc. may directly contact sides and top front edge at nailing flanges of fireplace face. It is important that combustible materials do not overlap the face itself. Brick, glass, tile or other noncombustible materials may overlap the front face provided they do not obstruct louvered slots or any other opening. When overlapping with a noncombustible facing material, use only noncombustible mortar or adhesive appropriate for the particular installation.

## OPTIONAL GAS LINE INSTALLATION

**⚠ WARNING: A qualified service person must connect fireplace to gas supply. Follow all local codes.**

A gas line may be installed for the purpose of installing a vented or vent-free decorative gas appliance available through your local distributor. Use only gas piping approved by local codes. When installing a gas line, a shutoff valve designed for installation outside the appliance is recommended.

The gas pipe is intended for connection to a decorative gas appliance that operates using natural or propane/LP gas only. This appliance must have an automatic shutoff device and must comply with the Standard for Decorative Gas Appliances for Installation in Vented Fireplace, ANSI Z21.60. **ONLY UNVENTED GAS LOG SETS WHICH HAVE BEEN FOUND TO COMPLY WITH THE STANDARD FOR UNVENTED ROOM HEATERS, ANSI Z21.11.2, ARE TO BE INSTALLED IN THIS FIREPLACE.**

**NOTICE:** Before you proceed, make sure your gas supply is turned off. Use only a 1/2" black iron pipe and appropriate fittings.

1. Remove knockout indentation on refractory or firebrick wall located approximately 2" above the refractory hearth floor. The knockout indentation must be firmly tapped with any solid object such as a 1/2" dowel until it is released. Remove fragmented portions of refractory (see Figure 24).
2. Remove gas line cover plate located on rear of fireplace and pull out insulation from gas line conduit sleeve. Save insulation for reuse.
3. Run gas line into the fireplace through the rear at 11 1/4" from floor and through gas line conduit sleeve (if using a raised platform, add height). Provide sufficient gas line into fireplace chamber for fitting connection (see Figure 25).

**Note:** Secure incoming gas line to wood framing to provide rigidity for threaded end.

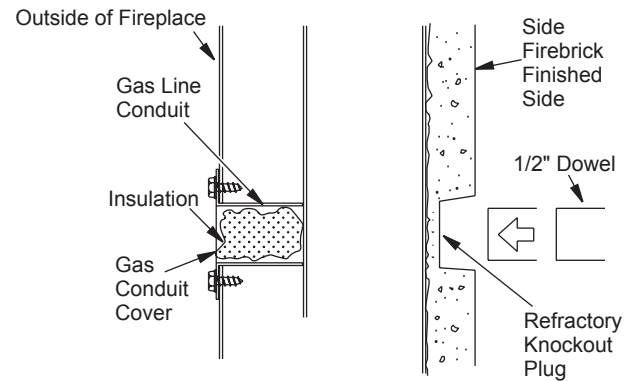
4. Repack insulation around gas line and into sleeve opening. Seal any gaps between gas line and refractory knockout hole with refractory cement or commercial furnace cement. Install the gas appliance or cap off gas line if desired.

**⚠ CAUTION: All gas piping and connections must be tested for leaks after installation is completed. After ensuring that gas valve is on, apply soap and water solution to all connections and joints. Bubbles forming show a leak. Correct all leaks at once. DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED. LEAK TESTING SHOULD BE DONE BY A QUALIFIED SERVICE PERSON.**

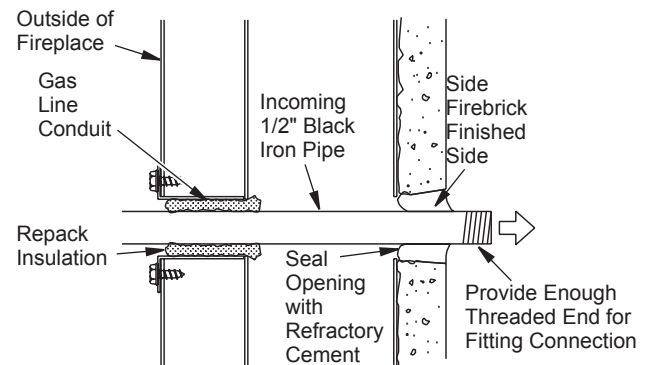
**Note:** An IHP hood must be installed when using an unvented gas log set (see [Accessories](#) on page 16).

**⚠ WARNING: Do not operate an unvented gas log set in this fireplace with chimney removed.**

If you install a decorative gas appliance (vented gas log), decorative gas appliance must comply with the Standard for Decorative Gas Appliance for Installation in Solid Fuel Burning Fireplaces, ANSI Z21.60/CSA 2.26 or Z21.84 and shall also be installed in accordance with ANSI Z223.1/NFPA 54 National Fuel Gas Codes (USA) and CAN/CGA-B149.1 National Gas And Propane Installation Code (Canada).



**Figure 24 - Gas Line Knockout**



**Figure 25 - Gas Line Installation**

**⚠ WARNING: To avoid the risk of damaging fireplace materials and increasing the risk of spreading a fire, do not use fireplace to cook or warm food.**

**⚠ WARNING: If the fireplace has been used for wood burning, firebox and chimney must be cleaned of soot, creosote and ashes by a qualified chimney cleaner. Creosote will ignite if heavily heated.**

**⚠ WARNING: When using a decorative vented gas log, damper must be removed or permanently locked in fully open position and glass doors must be in fully open position.**

## OPERATION AND MAINTENANCE GUIDELINES

### VENT-FREE GAS LOG INSTALLATION

Only unvented gas log sets that comply with the standard for unvented room heaters, ANS Z21.11.2, can be installed in this fireplace.

**Note:** An appropriate IHP PRODUCTS, LLC hood (see Replacement Parts and Accessories, pages 15 and 16) must be installed when using an unvented gas log set.

**⚠ WARNING: Do not operate an unvented gas log set in this fireplace with the chimney removed.**

### VENTED GAS LOG INSTALLATION

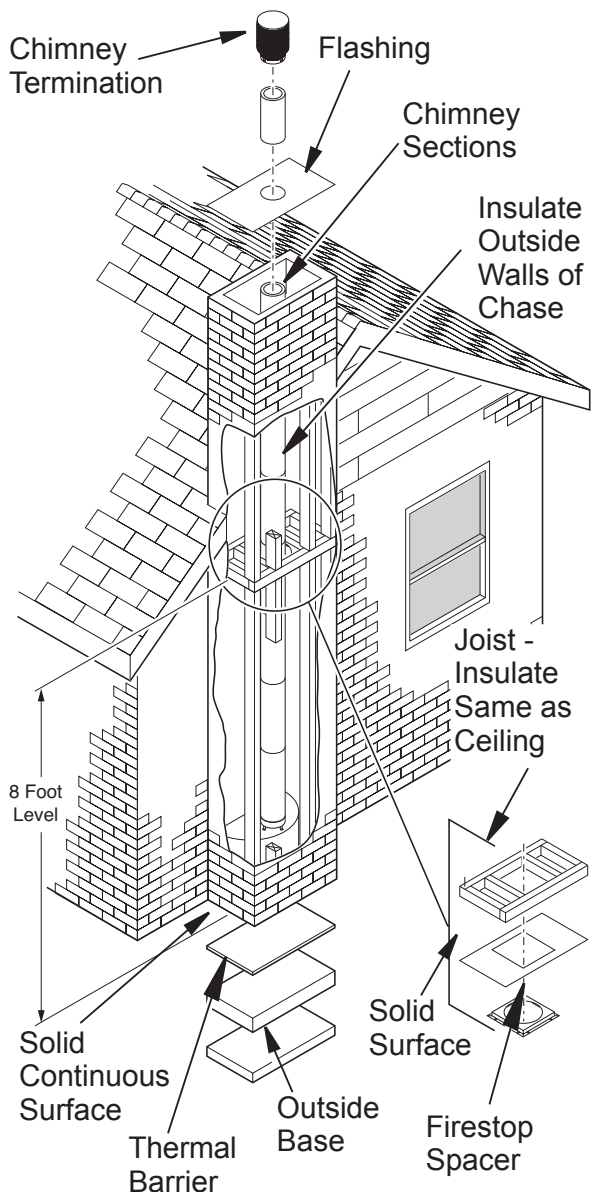
Only vented decorative appliances (vented gas log sets) that comply with the Standard for Decorative Gas Appliance for Installation in Solid Fuel Burning Fireplace, ANS Z21.1.60, can be installed in accordance with the National Fuel Gas Code, ANS Z223.1 in this fireplace.

**⚠ WARNING: When using a decorative vented gas log, the damper must be removed or permanently locked in the fully open position and the glass doors must be in the fully open position.**

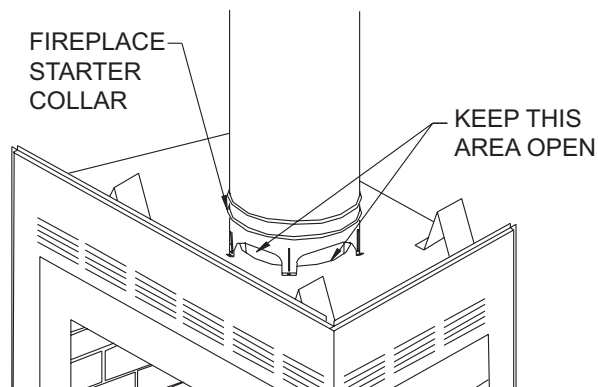
### COLD CLIMATE INSTALLATION

The following installation procedures are recommended when installing a fireplace system in a cold climate area. Following these steps will aid in reducing cold air infiltration from fireplace enclosure into living space.

1. Fireplace must be placed on a solid continuous surface. Add insulation under fireplace in all cold climate areas.
2. Insulate under raised platform or cantilevered chase to reduce air infiltration.
3. Insulate walls of chase, both outer and interior partitioning wall (see Figure 26). Clearances from pipe to insulating material must be maintained.
4. Install a firestop spacer in chase at ceiling level for safety and reduction of cold air movement (see Accessories, page 16).
5. Do not insulate top of firebox. The opening in collar around chimney at top of firebox must not be obstructed (see Figure 27).
6. Before finishing fireplace enclosure, inspect all joints of outer firebox. Seal any gaps of outer firebox with noncombustible material. Caulk any gaps between nailing flange and framing.



**Figure 26 - Cold Climate Installation**



**Figure 27 - Fireplace Collar Opening**



## OPERATION AND MAINTENANCE GUIDELINES *Continued*

### GLASS DOORS

Bi-fold glass doors are optional with this fireplace. Check with your local distributor for availability.

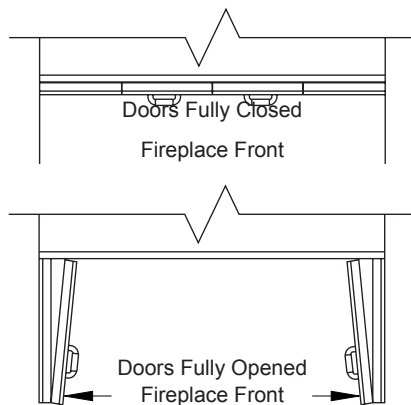
To install glass doors, refer to installation instructions that are included with kit. When fireplace is in operation, doors must be fully open or fully closed position only or a fire hazard may be created (see Figure 28).

A fireplace equipped with glass doors operates much differently than a fireplace with an open front. A fireplace with glass doors has a limited amount of air for combustion. Excessive heat within the fireplace can result if too large a fire is built or if combustion air gate is not completely open.

**IMPORTANT:** The following tips should be used to assure that both fireplace and glass door retain their beauty and function properly.

- Both the flue damper and glass doors must be fully opened before starting a fire. This will provide sufficient combustion air and maintain safe temperatures in firebox.
- The glass must be allowed to warm slowly and evenly. The tempered glass will withstand a gradual temperature rise to 550° F, which is more than a normal fire will generate. Such materials as pitch/wax laden logs, very dry mill end lumber and large amounts of paper or cardboard boxes. Always keep the fire well back from the doors and never allow flames to contact the glass.

**⚠ "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".**



**Figure 28- Glass Doors**

### Cleaning Glass

Clean glass with any commercial glass cleaner or soap and water. Do not use any abrasive material to clean glass. Do not clean glass with any cool water if glass is still hot from the fire. To remove doors, refer to instructions included with glass door kit.

### GRATE

The grate is designed to provide you with the maximum solid fuel capacity. Do not overload grate or obstruct required air space beneath it. Always keep ashes from building up under grate.

**⚠ WARNING: Risk of fire! Replace grate made for use with this fireplace only. See Replacement Parts.**

### CHIMNEY

Have your chimney system cleaned and inspected regularly to ensure safe and efficient operation.

For further operating guidelines, instructions and warranty information, please refer to your homeowner's guide or contact your dealer.

## REPLACEMENT PARTS

Note: Use only original replacement parts.

This will protect your warranty coverage for parts replaced under warranty.

Contact authorized dealers of this product. To locate a dealer in your area contact IHP at 1-800-655-2008. You can also visit our web site at [www.Superiorfireplaces.US.com](http://www.Superiorfireplaces.US.com).

When calling your dealer, have ready:

- your name
- your address
- model and serial numbers of your fireplace
- how fireplace was malfunctioning
- purchase date

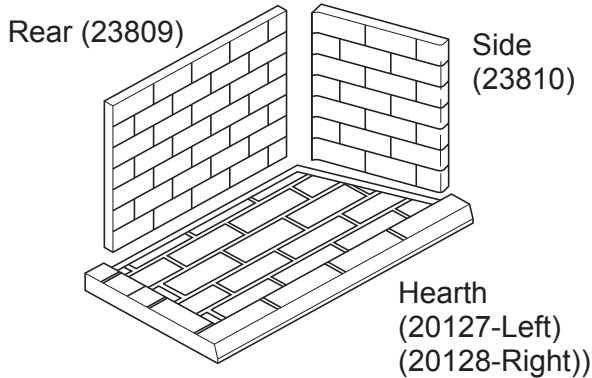
Usually, we require that the part is returned to the factory.

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns a. When calling your dealer please have your model and serial numbers of your fireplace ready. You can also visit our web site at [www.Superiorfireplaces.US.com](http://www.Superiorfireplaces.US.com).

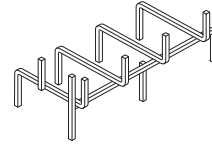
## REPLACEMENT PARTS

This list contains replaceable parts used in your fireplace.



### GRATE

11118 - Left  
11119 - Right



SCREEN - 12111 (Not Shown)

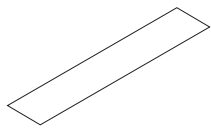
PUSH ON NUT - 11418 (Not Shown)

SCREEN ROD - 20806 (Not Shown)

### REFRACTORY

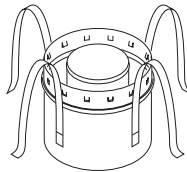
(36" Left Side Shown)

EMBER PROTECTOR  
20093

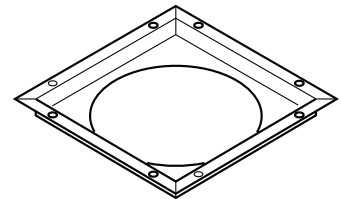


## ACCESSORIES

CHIMNEY SUPPORT  
12S-10DM

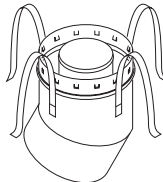
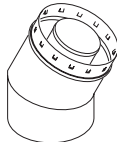


FIRESTOP SPACER  
FS-8DM



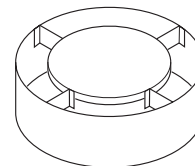
DOUBLE WALL 30° ELBOW/OFFSET  
30E-8DM

Starter  
Elbow



Return  
Elbow

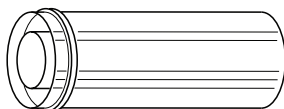
ANTI-DRAFT SHIELD  
(Round Top Termination Only)  
ADS-8DM



### 8" CHIMNEY PIPE ASSEMBLY

12-8DM, 18-8DM, 24-8DM, 36-8DM, 48-8DM

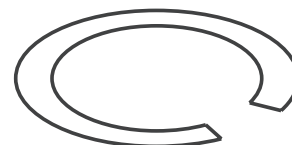
(Chimney pipe assembly includes outer and inner pipes and comes with wire spacer.)



### STORM COLLAR

SC1-1 For RT-8DM and RTL-8DM

SC1-2 Used for RTT-8DM and RTTL-8DM

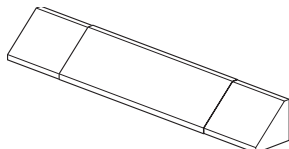


### ADJUSTABLE HOOD

Antique Brass Finish - GA6053

Black Painted Finish - GA6050

Required when installing a vent-free gas log in this fireplace.

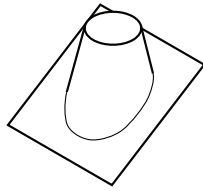


## ACCESSORIES *Continued*

### ROOF FLASHING

0 TO 6/12 PITCH - V6F-8DM

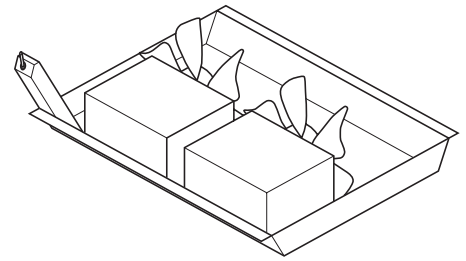
6/12 TO 12/12 PITCH - V12F-8DM



### FAN KIT -

VCBK4C - LEFT

VCBK4R - RIGHT

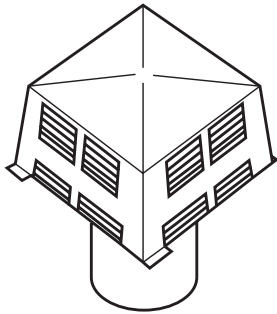


### SQUARE TOP TERMINATION

ET-8DM, ETO-8DM

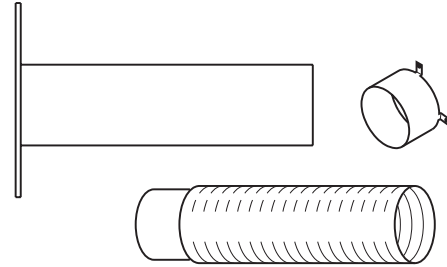
### SQUARE TOP TERMINATION WITH SLIP SECTION

ETL-8DM, ETLO-8DM

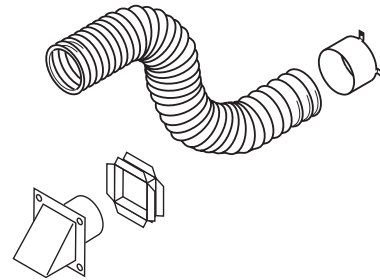


### OUTSIDE AIR KIT FOR FLOOR INSTALLATION

AK4



### OUTSIDE AIR KIT FOR SIDE WALL INSTALLATION - AK4F

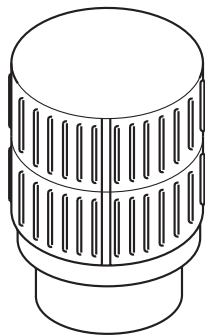


### ROUND TOP TERMINATION

RT-8DM, RTL-8DM

### ROUND TOP TERMINATION WITH SLIP SECTION

RTT-8CM, RTTL-8DM



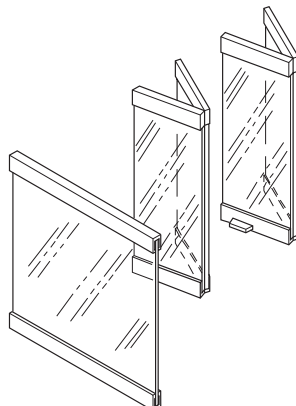
### HIGHT TEMPERATURE TOUCH-UP PAINT - 106583-01 (Not Shown)

### BI-FOLD GLASS DOOR

VDBP36C - Black

VDG36C - Brushed Brass

DC36L/R/LS/RS - Platinum



[illegible]

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## NOTES

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Innovative Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.



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