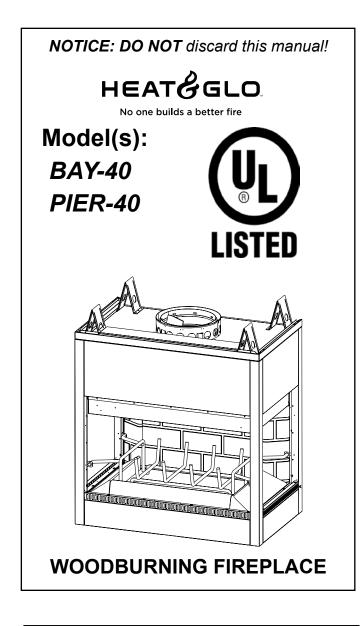
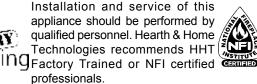
Installation Manual Installation and Fireplace Setup

INSTALLER: Leave this manual with party responsible for use and operation. OWNER: Retain this manual for future reference.



mvhb professionals.



A WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- DO NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- DO NOT overfire. Overfiring will void your warranty.
- · Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire

A WARNING

HOT SURFACES!

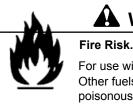
Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- DO NOT touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

 Keep clothing, furniture, draperies and other flammable materials away.



WARNING

For use with solid wood fuel only. Other fuels may overfire and generate poisonous gases (i.e. carbon monoxide).

Safety Alert Key:

- DANGER! Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- WARNING! Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- CAUTION! Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Indicates practices which may cause damage to the fireplace or to property.

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	·	

ATTENTION INSTALLER:

Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjuction with, not instead of, the instructions contained in this installation manual.

manual. Customer: Lot/Address Model (circle one):	BAY-40 PIER-40	Date Installed: Location of Fireplace: Installer: Dealer/Distributor Phone Serial #:			
WARNING! explosion.	Risk of Fire or Explosion!	Failure to install fireplace acor	ding to these	instructions can lead	to a fire o
Fireplace Install Verified that the chase Verified clearances to Fireplace is leveled an Protective hearth strip	s installed per manual requireme /height decided. (Pg. 29)		YES IF	NO, WHY?	
, ,	n complies with diagrams. ked and secured in place with pl ed. installed.	roper clearance.			
<u>Shrouds</u> Section 6 (I Shroud is installed pro	Pg. 26) operly per instructions.		□ _		
Verified all clearances Mantels and wall proje	(Pg. 28) s not installed in non-combustible meet installation manual require ections comply with installation n alled per manual requirements.	ements.			
Molded brick panels in Grate is properly insta Firescreen properly in Doors properly installe	tective materials removed. Installed correctly. Illed. stalled. ed. its contents are removed from th	ne fireplace and given to the party			
Photographing the in	nologies recommends the foll stallation and copying this check	klist for your file.			

• That this checklist remain visible at all times on the fireplace until the installation is complete.

Comments: Further description of the issues, who is responsible (Installer/Builder/Other Trades, etc.) and corrective action needed:

Comments communicated to party responsible	(Builder/Gen. Contractor)	_ by (Installer)	on (Date)
		4012-072 • Rev	A•05/30/13

A. Fireplace Certification

This fireplace system has been tested and listed in accordance with UL 127 standards by Underwriters Laboratories Inc. for installation and operation in the United States.

This fireplace may be installed in sleeping rooms EX-CEPT in manufactured homes. If installed with a gas log set, provisions for the National Fuel Gas Code must be met.

This fireplace has been tested and listed for use with the optional components specified in this manual. These optional components may be purchased separately and installed at a later date. An outside air kit, gas insert, gas log set or gas log-lighter should be installed at the time of fireplace installation.

Heat & Glo is a registered trademark of Hearth & Home Technologies.

WARNING! Risk of Fire! Hearth & Home Technologies disclaims any responsibility for, and the warranty and agency listing will be voided by the following actions.

DO NOT:

- install or operate damaged fireplace
- modify fireplace
- install other than as instructed by Hearth & Home Technologies
- operate the fireplace without fully assembling all components
- overfire
- install unvented gas log set
- install any component not approved by Hearth & Home Technologies
- install parts or components not Listed or approved

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified installer, service agency or your dealer.

B. Non-Combustible Materials

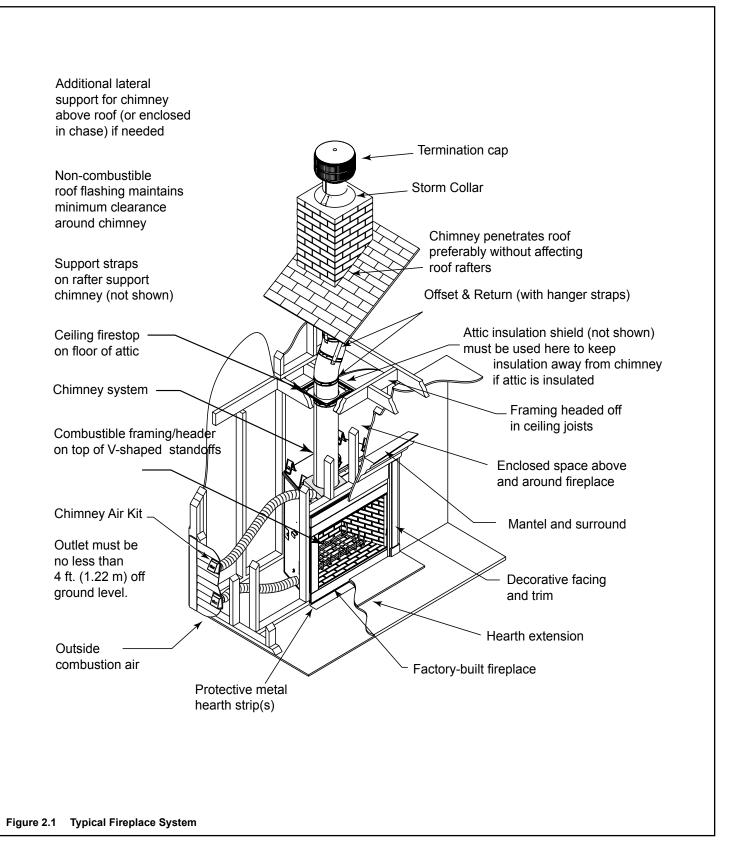
- Materials which will not ignite and burn, composed of any combination of the following:
 - Steel Iron
 - Brick Tile
 - Concrete Slate
 - Glass Plasters
- Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace at 750° C

C. Combustible Materials

- Materials made of or surfaced with any of the following materials:
 - Wood Compressed paper
 - Plant fibers Plastic
 - Plywood/OSB Sheet rock (drywall)
- Any material that can ignite and burn; flame proofed or not, plastered or un-plastered



A. Typical Fireplace System



B. Design and Installation Considerations

NOTICE: Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.
- <u>Before installing</u>, determine the following:
- Where the fireplace is to be installed.
 - The vent system configuration to be used.
 - Gas supply piping.
 - Electrical wiring.
 - Framing and finishing details.

1. Selecting Fireplace Locations

This fireplace may be used as a room divider, installed along a wall, across a corner or used in an exterior chase. See Figure 2.2.

Locating the fireplace in a basement should be avoided. Locating near frequently opened doors, central heat outlets or returns, or other locations of considerable air movement can affect the performance. Outside air must be used for combustion. This fireplace comes equipped with an outside air inlet to feed combustion air from outside the home, along with an outside air termination cap; the rigid metal duct is required but not supplied. Consideration should be given to these factors before deciding on a location.

NOTICE: In addition to these framing dimensions, also reference the following section:

• Clearances (Section 3).

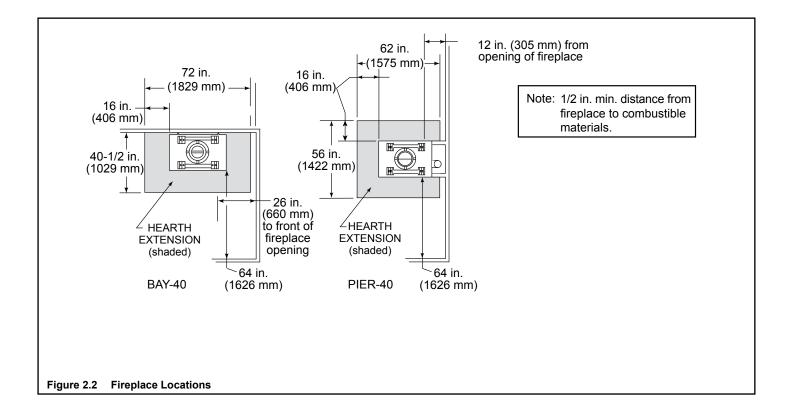
NOTICE:

- Illustrations and photos reflect typical installations and are <u>FOR DESIGN PURPOSES ONLY</u>.
- Illustrations/diagrams are not drawn to scale.
- Actual installation/appearance may vary due to individual design preference.
- Hearth & Home Technologies reserves the right to alter its products.

NOTICE:

A minimum 1/2 in. air clearance at the back of the fireplace assembly must be maintained.

Chimney sections at any level require a 2 in. minimum air space clearance between the framing and chimney sections.

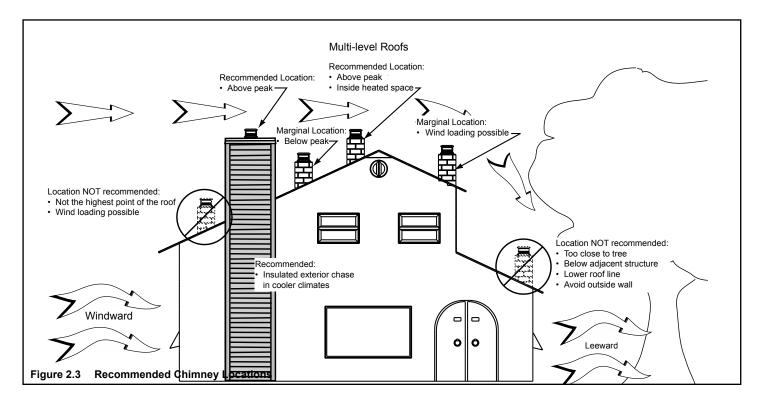


2. Locating Fireplace & Chimney

Location of the fireplace and chimney will affect performance.

- Install within the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Installing the fireplace in a basement is not recommended.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.
- Minimize the use of chimney offsets.
- Consider the fireplace location relative to floor and ceiling and attic joists.
- Take into consideration the termination requirements in Sections 4 and 5.

- Install the outside air kit with the intake facing prevailing winds during the heating season.
- Ensure adequate outdoor air for <u>all</u> combustion appliances and exhaust equipment.
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the fireplace.
- Avoid installing the fireplace near doors, walkways or small isolated spaces.
- Recessed lighting should be a "sealed can" design.
- Attic hatches weather stripped or sealed.
- Attic mounted duct work and air handler joints and seams taped or sealed.



C. Tools and Supplies Needed

Before beginning the installation be sure the following tools and building supplies are available:

Reciprocating saw	Framing material
Pliers	Non-combustible sealant
Hammer	Gloves
Phillips screwdriver	Framing square
Flat blade screwdriver	Electric drill and bits
Plumb line	Safety glasses
Level	Tape measure
1/2-3/4 in. length, #6 or #8	self-drilling screws

Misc. screws and nails

D. Inspect Fireplace and Components

WARNING! Risk of Fire and/or Explosion! Damaged parts could impair safe operation. **DO NOT** install damaged, incomplete or substitute components. Keep fire-place dry.

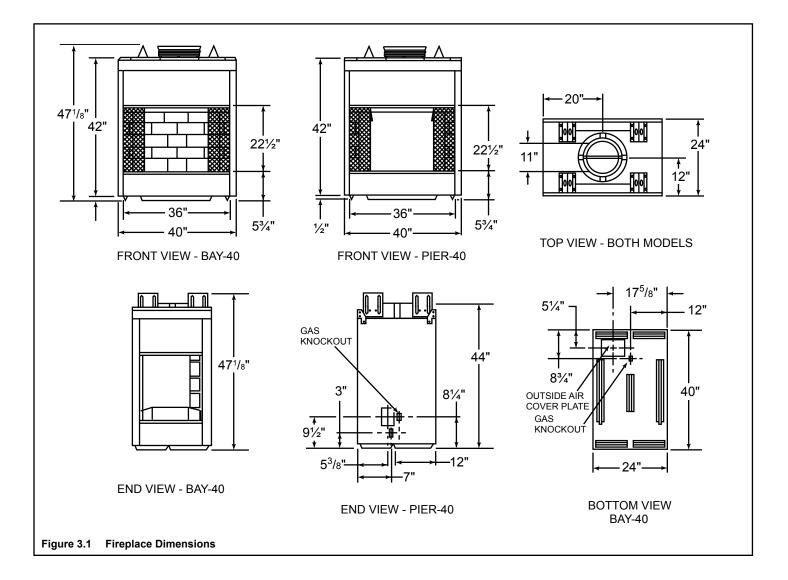
- Remove fireplace and components from packaging and inspect for damage.
- Vent system components and doors are shipped in separate packages.
- Report to your dealer any parts damaged in shipment.
- Read all the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.

E. Fireplace System Requirements

The Heatilator fireplace system requirements consist of the following:

- Fireplace
 - Refractory (included with fireplace)
 - Firescreen (included with fireplace)
 - Grate (included with fireplace)
 - Hearth Extension (required, sold separately)
- Outside Air System
 - Air Inlet Hood (included with fireplace)
 - Flex (required, sold separately)
- Chimney System
 - Attic Insulation Shield (included with fireplace)
 - Chimney termination cap (required, sold separately)
- Non-combustible finish material
- · Doors/end panel (required, sold separately)

A. Fireplace Dimensions



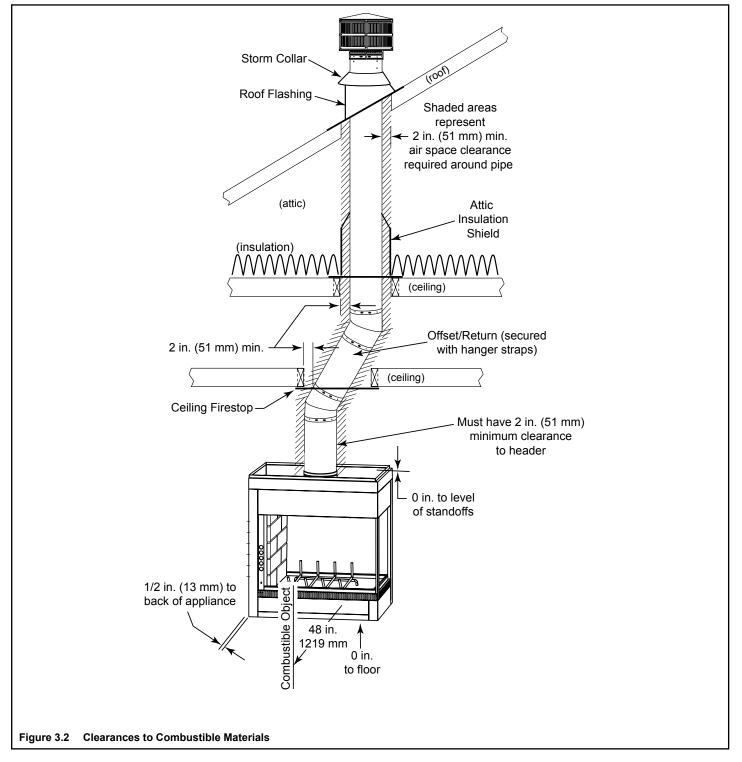
B. Clearances

WARNING! Risk of Fire!

You must comply with all minimum air space clearances to combustibles as specified in Figure 3.2. **DO NOT** pack required air spaces with insulation or other materials. Framing or finishing material used on the front of, or in front of, the fireplace closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.). Failure to comply may cause fire.

Minimum Clearances to Combustibles

WITHIN ENCLOSURE AREA				
Fireplace to backwall	1/2 in. (13 mm)			
Top standoffs to header	0 in. (0 mm)			
Door opening to sidewall	26 in. (660 mm)			
MANTEL				
Mantel minimum height	42 1/2 in. (1080 mm)			
Maximum mantel depth	12 in. (305 mm)			



C. Construct the Chase

A chase is a vertical boxlike structure built to enclose the fireplace and/or its vent system. Vertical chimneys that run on the outside of a building must be installed inside a chase.

In cold climates, Hearth & Home Technologies recommends that the chase be well insulated using batt type insulation between the joists.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes MUST be checked.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner. All outer walls need to be insulated.

Building codes require false ceiling and ceiling firestops/ attic shields at each floor of the chase or every 10 ft (3048 mm) of clear space to control spread of fire.

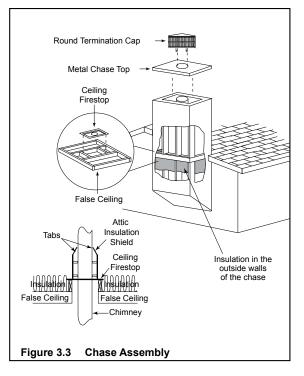
Walls, ceiling, base plate and cantilever floor at the first level of the chase should be insulated (see Figure 3.3.) Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, Hearth & Home Technologies recommends that the inside surfaces be drywalled and taped (or the use of an equivalent method) for maximum air tightness.

Holes and other openings should be caulked with high temperature caulk or stuffed with unfaced fiberglass insulation.

WARNING! You must install false ceilings and ceiling firestops at each floor of the chase or every 10 ft (3.05 m) to control spread of fire.

WARNING! Risk of Fire! DO NOT seal area between fire stop opening and chimney pipe except where they enter the attic or leave the warm air envelope of the home (use 600° F sealant).

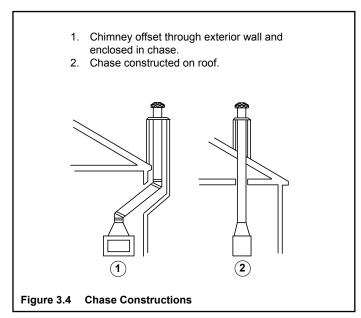
- The chase is constructed using framing materials much the same as the walls in your home. A variety of siding materials may be used including brick, stone, veneer brick, or standard siding materials.
- In constructing the chase, several factors must be considered:
 - Maintain a 2 in. (51 mm) air space around the chimney.
 - The chase top must be constructed of noncombustible material.
 - In cold climates, a firestop spacer and attic insulation shield should be installed in an insulated false ceiling at the 8 ft. (2438 mm) level above the fireplace assembly. This reduces heat loss through the chase.
 - In cold climates, the walls of the chase should be insulated to the level of the false ceiling as shown in Figure 3.3. This will help reduce heat loss from the home around the fireplace.



WARNING! Risk of Fire! You must maintain a minimum 2 in. (51 mm) air space clearance to insulation and other materials surrounding the chimney system.

- Insulation and other materials must be firmly secured to prevent accidental contact with chimney system.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to prevent contact between insulation or other materials and chimney system may cause overheating and fire.

Examples of chase applications are shown in Figure 3.4.



D. Frame the Fireplace

NOTICE: Hearth extension design must be determined before installation of fireplace.

If the fireplace is placed on the floor the maximum height of a finished raised hearth is 5-3/4 in. If you want a higher raised hearth the fireplace must be placed on a platform.

WARNING! Risk of Fire! Comply with all minimum clearances specified.

- A minimum 1/2 in. (13 mm) air clearance must be maintained at the back of the fireplace assembly.
- Chimney sections at any level require a 2 in. (51 mm) minimum air space clearance between the framing and chimney section.

WARNING! Risk of Fire! You must comply with all minimum air space clearances to combustibles. **DO NOT** pack required air spaces with insulation or other materials.

Figure 3.5 shows a typical framing (using 2 x 4 lumber) of the fireplace, assuming combustible materials are used. All required clearances to combustibles around the fireplace must be adhered to. See Figure 3.2. Any framing across the top of the fireplace must be above the level of the top standoffs. (No recess above standoffs.)

CAUTION! Risk of Cuts/Abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

E. Secure and Level the Fireplace

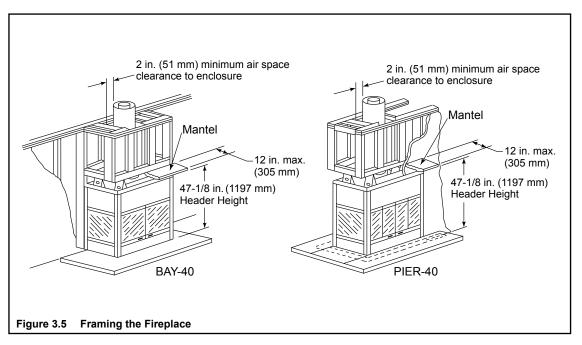
This fireplace may be placed on either a combustible or noncombustible continuous flat surface. Follow the instructions for framing in Section 3. Slide the fireplace into position. Be sure to provide the minimum 1/2 in. air clearance at the back of the fireplace.

The fireplace should be positioned so the face of the noncombustible material on the fireplace will be flush with the face of the drywall on the walls.

Level the fireplace and shim as necessary.

WARNING! Risk of Fire! Prevent contact with sagging, loose insulation.

- **DO NOT** install against vapor barriers or exposed insulation.
- Secure insulation and vapor barriers.
- Provide minimum air space clearances at the back of the fireplace assembly.

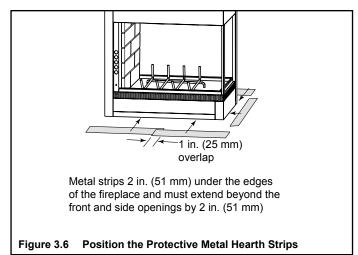


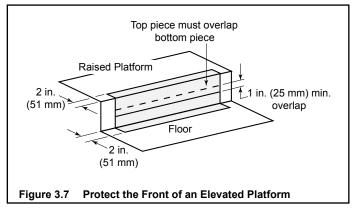
F. Protective Metal Hearth Strips

WARNING! Risk of Fire! Protective metal hearth strips MUST be installed on combustible surfaces. **DO NOT** cover metal strips with combustible materials. Sparks or embers may ignite flooring.

WARNING! Risk of fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips MUST be installed.
- Hearth extensions MUST be installed exactly as specified.
- Locate the two protective metal hearth strips measuring approximately 26 in. x 4 in. (660 mm x 102 mm) included with this fireplace.
- Slide each metal strip 2 in. (51 mm) under front edge of fireplace.
- Overlap strips in the middle of fireplace opening by 1 in. (25 mm) minimum.
- Metal strips must extend beyond the front and sides of the fireplace opening by at least 2 in. (51 mm), Figure 3.6).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 3.7. See Section 7 for hearth extension instructions.



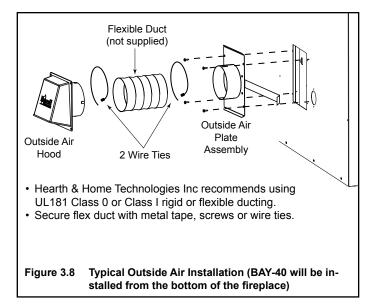


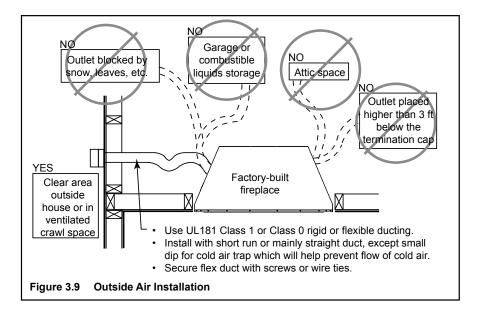
G. Install Outside Air Kit

- Keep duct runs short and straight to minimize restriction. A small dip is acceptable for a cold air trap.
- Locate the outside air inlet hood in a clear area, preferably into prevailing wind during the heating season. Refer to Figure 3.9.
- Install as shown in Figures 3.8 and 3.9.
- The air duct may be run vertically.
- The outside air inlet hood must be at least 3 ft (.91 m) below the top of the uppermost chimney section.
- Seal between the wall and the pipe with silicone to prevent moisture penetration and air leaks.
- Seal between the outside air inlet hood and the house with silicone to prevent air infiltration.

CAUTION! Risk of Fire or Asphyxiation! DO NOT draw outside combustion air from wall, floor or ceiling cavity, or enclosed spaces such as an attic or garage.

- **DO NOT** place outside air inlet hood close to exhaust vents or chimneys. Fumes or odor could be drawn into the room through the fireplace.
- Locate outside air inlet hood to prevent blockage from leaves, snow/ice, or other debris. Blockages could cause combustion air starvation.





AK17 Installation (BAY-40)

- Remove the cover plate from the bottom of the fireplace and replace it with outside air plate assembly using existing screws.
- Mark and cut out a 4 1/2 in. (114 mm) diameter hole in the building side for air entry. This hole should allow for some framing (two sides) so the outside air hood assembly may be nailed into position, flush with building's outside.
- Secure flexible duct (not supplied) to the plate assembly.
- Feed duct through hole to the outside, fasten to the hood assembly.
- Fasten outside air hood assembly to the structure with screws.

AK14/AK18 Installation (PIER-40)

- The hinge will be toward the front of the fireplace.
- Insert the narrow end of the handle into the upper slot.
- Pivot the handle in the slot toward the hinge.
- Remove the cover plate or knockout from the side of the fireplace and discard. Remove the semi-perforated piece of insulation covering the opening (insulated fireplaces only).
- Partly open the air kit door and insert the handle into the appropriate hole in the side column of the fireplace. The hinge on the door assembly should be located toward the front of the fireplace. If the hinge and the handle are not positioned in this manner, the door will not function correctly.
- Attach the door assembly to the fireplace using the screws provided.
- Check operation by pulling the handle out to open and pushing it in to close.
- Mark and cut out a 4 1/2 in. (114 mm) hole in the building side for air entry. This hole should allow some framing (two sides) so the 4 in. (102 mm) diameter inlet tube assembly may be fastened properly.
- Assemble flexible duct (not supplied) between the door assembly and the inlet tube assembly. Secure it in position with the supplied wire ties.
- Feed duct through hole to the outside, fasten to the hood assembly.
- Fasten outside air hood assembly to the structure with screws.

A. Chimney Requirements

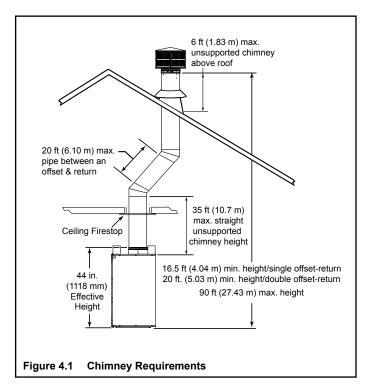
Vertical distances are measured from the base of the fireplace as shown in Figure 4.1.

Table 4.1 Chimney Requirements

Minimum overall straight height	14 ft	4.27 m
Minimum height with single offset/ return	16.5 ft	5.03 m
Double offset/return minimum height	20 ft	6.1 m
Maximum height	90 ft	27.43 m
Maximum chimney length between an offset and return	20 ft	6.1 m
Maximum distance between chimney stabilizers	35 ft	10.67 m
Maximum unsupported chimney length between the offset and return	6 ft	1.83 m
Maximum unsupported chimney height above the fireplace	35 ft	10.67 m
Maximum unsupported chimney above roof	6 ft	1.83 m

NOTICE: A maximum of two pairs of offsets and returns may be used.

WARNING! Risk of Fire! You must maintain 2 in. (51 mm) air space clearance to insulation and other combustible materials around the chimney system. Failure to do so may cause overheating and fire.



NOTICE: You must provide support for the pipe during construction and check to be sure inadvertent loading has not dislodged the chimney section from the fireplace or at any chimney joint.

Table 4.2 Chimney Component Dimensions

HEIGHT OF CHIMNEY COMPONENTS in. mm					
Chimney Stabilizer					
SL11	4-3/4	121			
Offsets/Returns					
SL1130	18	457			
Chimney Sections*					
SL1106	4-3/4	121			
SL1112	10-3/4	273			
SL1118	16-3/4	425			
SL1136	34-3/4	883			
SL1148	46-3/4	1187			

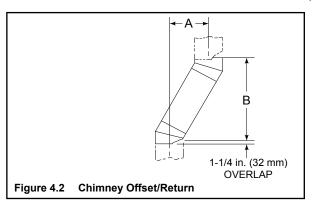
* Dimensions reflect effective height.

B. Offsets/Returns

- Use an offset/return to bypass overhead obstructions.
- An offset and return can be used as a single entity or separated by chimney section(s).

WARNING! Risk of Fire! DO NOT use offset/returns greater than 30°. Chimney draft will be restricted and could cause overheating and fire. Secure offsets with screws (not to exceed 1/2" / 13 mm in length) Secure returns with strapping. Straight chimney sections may be secured with screws. Keep chimney sections from separating or twisting.

- Measure the shift needed to avoid the overhead obstruction. Refer to dimension A in Figure 4.2.
- Find the appropriate A dimension listed in Table 4.3. The B dimension coinciding with the A dimension measurement in Table 4.3 represents the required vertical clearance needed to complete the offset/return.
- Read across the chart to find the number of chimney sections/model numbers needed between the offset and return.



Example:

Your "A" dimension from Figure 4.2 is 14-1/2 in. (368 mm). Using Table 4.3 the dimension closest to, but not less than 14-1/2 in. (368 mm) is 15 3/4 in. (400 mm) using a 30° offset/return.

You determined from the table that you would need 36-5/8 in. (930 mm) (Dimension "B") between the offset and return.

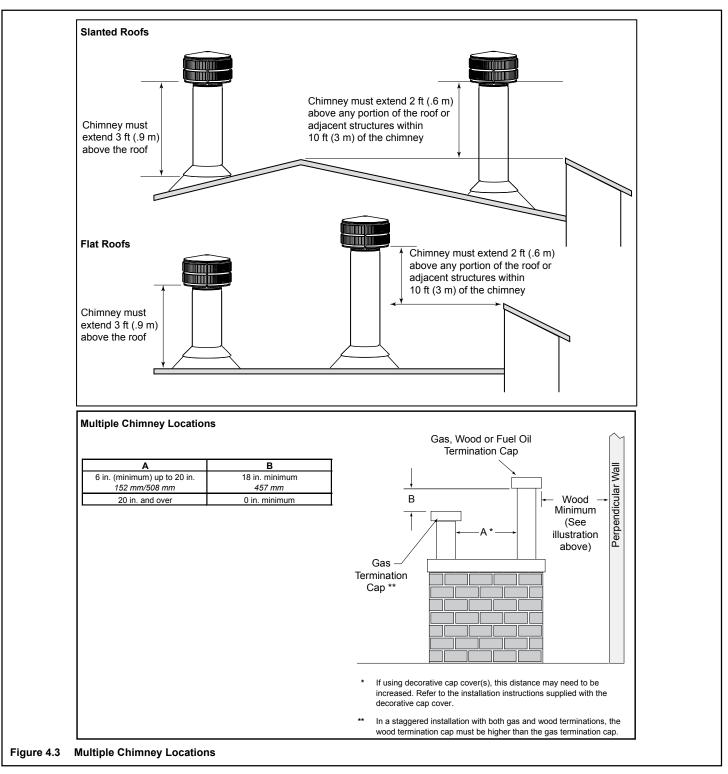
The chimney component that best fits your application is two SL1112s.

A B		3						
in.	mm	in.	mm	SL1106	SL1112	SL1118	SL1136	SL1148
4 7/8	124	17 7/8	454	-	-	-	-	-
7 1/4	184	22	559	1	-	-	-	-
9 3/4	248	26 1/8	664	2	-	-	-	-
10 1/4	260	27 1/4	692	-	1	-	-	-
12 3/4	324	31 3/8	797	1	1	-	-	-
13 1/4	337	32 3/8	822	-	-	1	-	-
15 3/4	400	36 5/8	930	-	2	-	-	-
18 1/8	460	40 3/4	1035	1	2	-	-	-
18 3/4	476	41 3/4	1060	-	1	1	-	-
21 3/4	552	47	1194	-	-	2	-	-
22 1/4	565	48	1219	-	-	-	1	-
24 3/4	629	52 1/8	1324	1	-	-	1	-
27 3/4	705	57 3/8	1457	-	1	-	1	-
28 1/4	718	58 3/8	1483	-	-	-	-	1
30 3/4	781	62 1/2	1588	1	-	-	-	1
33 3/4	857	67 3/4	1721	-	1	-	-	1
36 3/4	933	73	1854	-	-	1	-	1
39 3/4	1010	78 1/8	1984	-	-	-	2	-
41 1/8	1045	82 3/8	2092	1	-	-	2	-
45 3/4	1162	88 1/2	2248	-	-	-	1	1
48 1/8	1222	92 3/4	2356	1	-	-	1	1
51 3/4	1314	98 7/8	2511	-	-	-	-	2
•	Proper assembly of air cooled chimney parts results in an overlap of chimney joints of 1-1/4 in. (32 mm). Effective length is built into this table.							

Table 4.3 Offset Dimensions

C. Termination Requirements

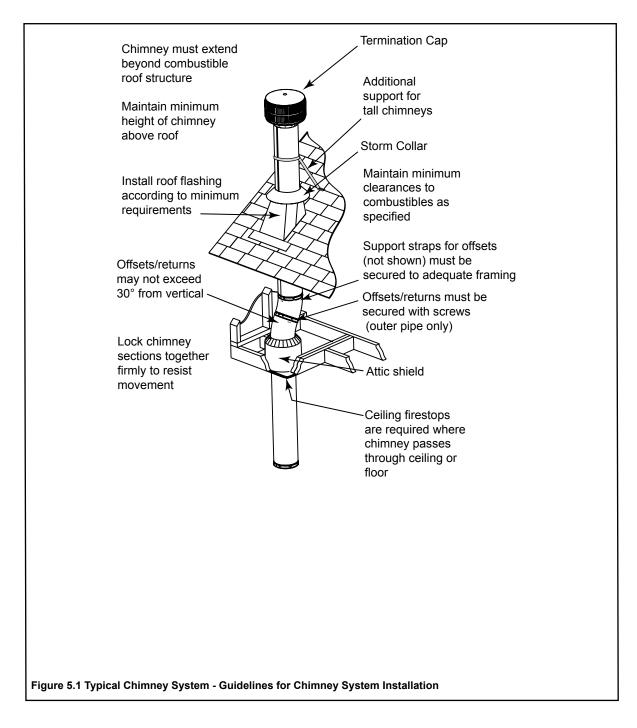
- Install a cap approved and listed for this fireplace system.
- · Locate cap where it will not become plugged by snow or other materials.
- Locate cap away from trees or other structures.
- The bottom of the termination cap must be at least 3 ft (.91 m) above the roof AND at least 2 ft (.61 m) above any portion of roof within 10 ft (3.05 m).
- The distance required between caps is shown below.



A. Typical Chimney System

NOTICE: Chimney performance may vary.

- Trees, buildings, roof lines and wind conditions affect performance.
- Chimney height may need adjustment if smoking or overdraft occurs.



B. Assemble Chimney Sections

Use only those components described in this manual.

Substitute or damaged chimney components could impair safe operation and cause overheating and fire.

Attach either a straight chimney section or an offset to the top of the fireplace (depending on your installation requirement). Chimney sections are locked together by pushing downward until the top section meets the stop bead on the lower section.

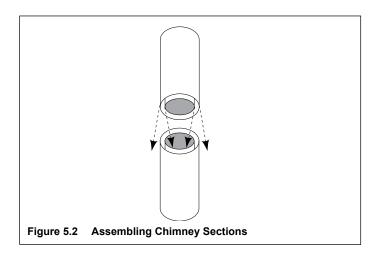
The inner flue is placed to the inside of the flue section below it. The outer casing is placed outside the outer casing of the chimney section below it. See Figure 5.2.

NOTICE: Chimney sections cannot be disassembled once locked together. Plan ahead!

- Lock chimney sections and/or offsets/returns together by pushing downward until the top section meets the stop bead on the lower section.
- Pull on the top section to make sure it is fully engaged and will not separate.
- You may use #6 or #8 sheet metal screws no longer than 1/2 in. (13 mm) to fasten chimney sections together. Do NOT penetrate inner flue.

WARNING! Risk of Fire! You MUST use screws (provided) to fasten offset/returns to chimney sections to keep the chimney parts from twisting. Failure to do so could cause fire.

- Fasten offset/returns to chimney sections. Insert the screws (provided) through the predrilled holes. Do NOT penetrate inner flue.
- Secure chimney returns with hanger straps provided; fasten to studs or joists.
- Vertical straight runs of chimney must be supported every 35 ft (10.7 m).



WARNING! Risk of Fire! DO NOT install substitute or damaged chimney components.

C. Install Chimney Air Kit (optional)

• Follow instructions included with accessory.

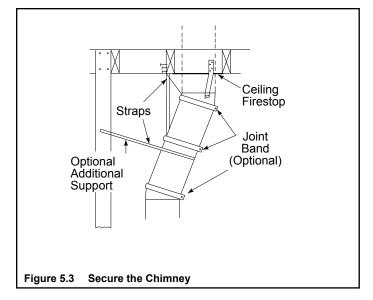
D. Secure Offset/Return

When offsets and returns are joined to straight pipe sections, they must be locked into position with the screws provided* (outer only), using the predrilled holes. To prevent gravity from pulling the chimney sections apart, the returns and the chimney stabilizers have hanger straps for securing these parts to joists or rafters. See Figure 5.3.

 * Use # 6 or # 8 sheet metal screw, or larger, no longer than 1/2 in. (13 mm).

WARNING! Risk of Fire!

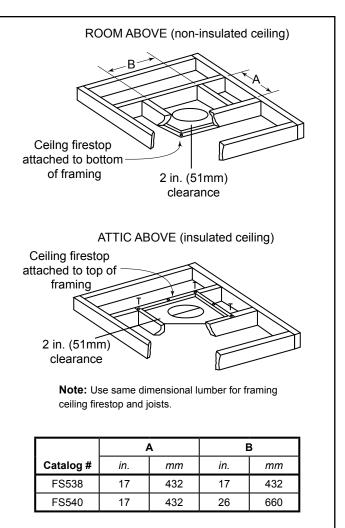
- Secure offsets with screws (not to exceed 1/2 in./13 mm In length).
- Secure returns with strapping.
- Straight chimney sections may be secured with screw (not to exceed 1/2 in./13 mm In length) at the joints.
- Keep chimney sections from separating or twisting.

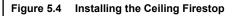


E. Install Ceiling Firestops

CAUTION! Risk of Fire! Ceiling firestops must be used whenever the chimney penetrates a ceiling/floor.

- Chase construction requires ceiling firestops at each floor or every 10 ft. (3.05 m) of clear space.
- The ceiling firestop slows spread of fire and reduces cold air infiltration.
- Install a ceiling firestop whenever chimney penetrates ceiling/floor.
- Mark and cut an opening in ceiling as shown in Figure 5.4.
- Frame the opening with the same size lumber used in the ceiling joists.
- Nail the ceiling firestop to the bottom of the ceiling joists when there is a room above.
- Use an attic insulation shield if the ceiling is insulated. The ceiling firestop may then be attached above or below the joists.





WARNING! Risk of Fire! DO NOT seal area between firestop opening and chimney pipe except where they enter the attic or leave the warm air envelope of the home (use 600° F sealant).

► F. Install Attic Insulation Shield

WARNING! Risk of Fire! You MUST install an attic insulation shield when there is any possibility of insulation or other combustible material coming into contact with the chimney.

- **DO NOT** pack insulation between the chimney and the attic insulation shield.
- Failure to keep insulation and other materials away from chimney pipe could cause fire.
- **DO NOT** offset chimney inside insulation shield.

Installation of a ceiling firestop is required:

- Refer to Figures 5.5, 5.6, 5.7.
- If the attic shield is pre-rolled continue. If it is a flat part, try and roll it up to aid in wrapping it around the chimney.
- Pre-bend all the tabs in at the top to 45°.
- Wrap the shield (around the chimney if already installed) until you have an overlap and the three holes on each side match up (large holes on top).
- Insert three screws into the matching holes to form a tube starting at the bottom.
- Bend the tabs on the bottom of the tube inward to 90° to maintain chimney air space.
- Rest the insulation shield on the ceiling firestop below.
- Tape off any opening around the bottom.

If you wish to make a custom shield or barrier, follow these guidelines:

 Metal is preferred, although any material stiff enough to hold back the insulation can be used.

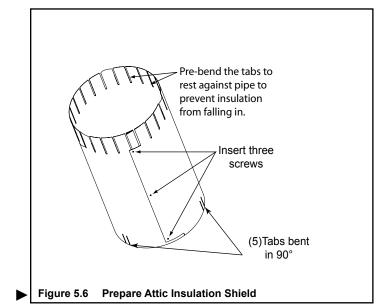
WARNING! Risk of Fire! Use of cardboard or other materials that can deflect under humidity or other environmental conditions is not recommended.

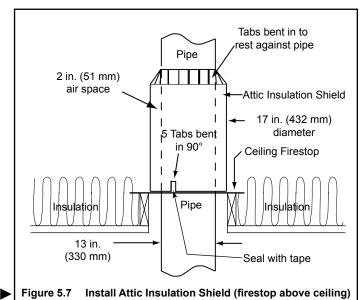
- The shield or barrier must be tall enough to extend above the insulation and prevent blown-in insulation from spilling into the cavity.
- Maintain specified air spaces around chimney.
- Check instructions and local codes for further details.

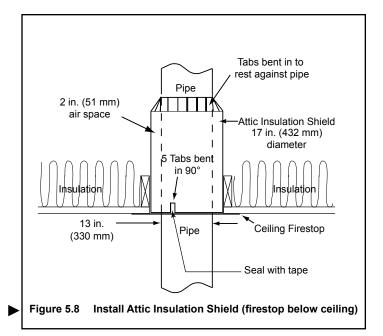
Double-check the Chimney Assembly

Continue assembling the chimney sections up through the ceiling firestops as needed. While doing so, be aware of the height and unsupported chimney length limitations given under Section 5.

Check each section by pulling up slightly from the top to ensure proper engagement before installing the succeeding sections. If they have been connected correctly, they will not disengage when tested.







G. Roof Penetration

- Refer to Figure 5.8.
- Plumb from roof to center of chimney.
- Drive a nail up through roof to mark center of pipe.
- Measure to either side of nail and mark the 17 in. x 17 in. (432 mm x 432 mm) opening required.
- Measure opening on the horizontal; actual length may be larger depending on roof pitch.
- Cut out and frame opening.
- Refer to Chapter 25 of the Uniform Building Code for roof framing details.

Install Flashing

- Assemble chimney so it passes through the framed opening.
- Slip the flashing over the chimney.

NOTICE: Roofing shingles must be below the flashing plate on the lower side of a sloped roof and over the flashing plate on the sides and top.

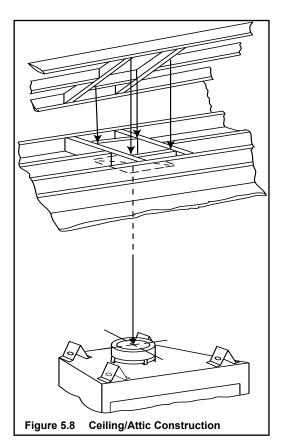
- Nail the flashing to the roof. Keep gaps between the flashing plate and the roof to a minimum.
- Caulk the flashing plate and roof junction as well as the vertical seam on the flashing. All nail heads must be caulked with a roofing sealant.
- Caulk the overlap seam of any exposed pipe sections that are located above the roof line to prevent leaks.

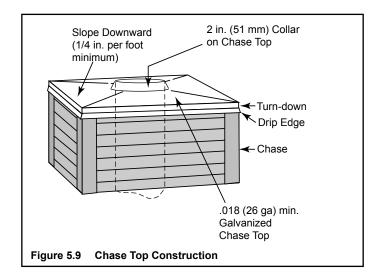
H. Install Chase/Chase Top

- You MUST use a chase top in a chase installation. Chase tops are available from your Heat & Glo dealer or may be field constructed.
- Include a turndown and drip edge to prevent water from seeping into the chase.
- Include a 2 in. (51 mm) soldered, welded or spun collar around pipe opening to keep water out.
- Provide a 1/8 in. (3 mm) gap around the flue pipe.
- Slope the chase top downward away from the opening.

WARNING! Risk of Fire! DO NOT caulk the pipe to the chase top collar.

• Caulk all seams to prevent leaks.





I. Termination Cap Requirements

- · Install a cap approved and listed for this fireplace system.
- Locate cap where it will not become plugged by snow or other materials.
- · Locate cap away from trees or other structures.
- The bottom of the termination cap must be at least 3 ft (.91 m) above the roof AND at least 2 ft (.61 m) above any portion of roof within 10 ft (3.05 m).

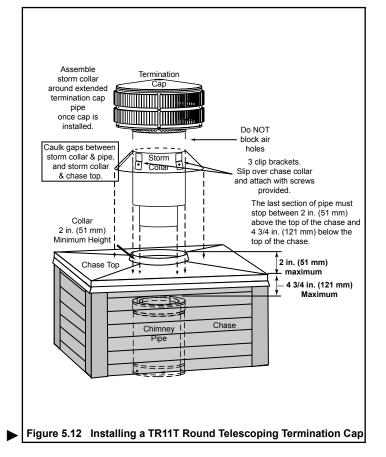
J. Install Termination Cap

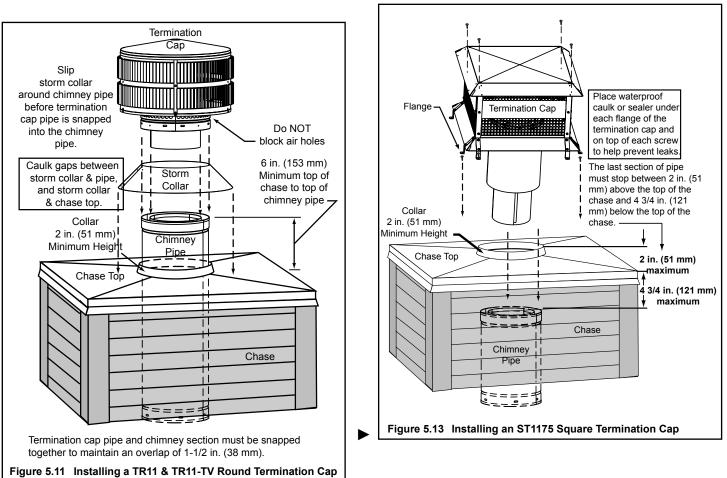
Install the chimney sections up through the chase enclosure.

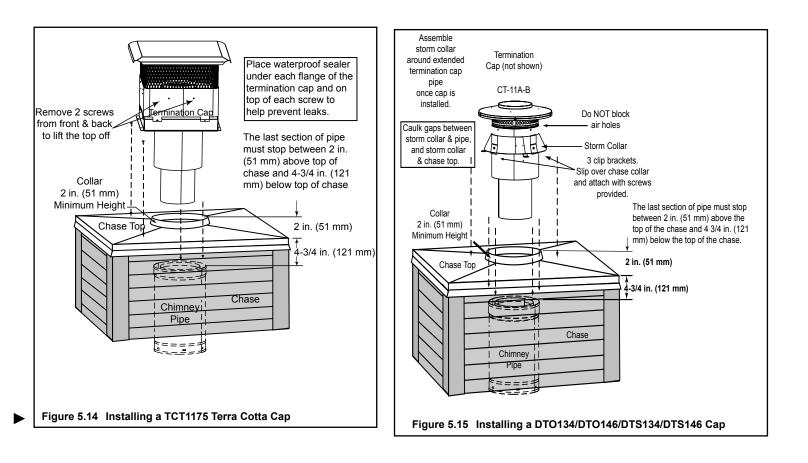
- Caulk the overlap seam of any exposed pipe sections that are located above the roof line to prevent leaks.
- Refer to termination cap instructions.

WARNING! Risk of Fire! Use only termination caps described in this manual. The minimum overlap of cap to pipe (as shown in the following illustrations) MUST be met or chimney may separate from cap. Separation allows sparks, heat and embers to escape.

NOTICE: Paint the termination cap with a rust-resistant paint to protect against the effects of corrosion on those parts exposed to the weather.







WARNING! Risk of Fire! Shrouds must be constructed as specified. Improper construction may overheat chase top.

Shrouds may be field constructed where permitted by regional building codes.

NOTICE: Some regional codes require an agency-Listed shroud. Consult your local building officials.

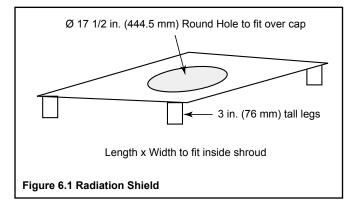
The shrouds must be constructed from minimum .018 in. (26 ga) thick aluminized steel.

Some shrouds require a radiation shield. Use where specified.

A. Radiation Shield

Shrouds

Radiation shield must be constructed of minimum 26 ga thick sheet metal.

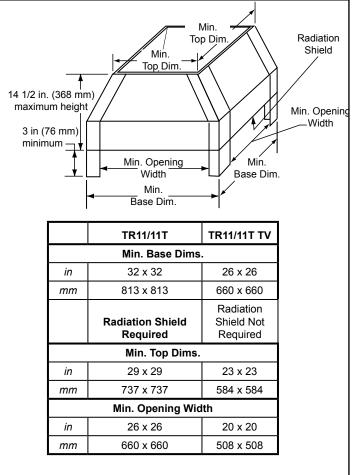


B. Field Constructed Shrouds

The following field constructed shroud designs have been tested for HHT fireplace systems and termination caps.

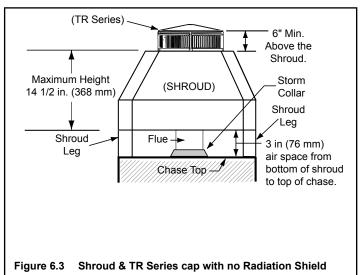
1. Open Top Shroud

(TR11/TR11T caps require radiation shield)



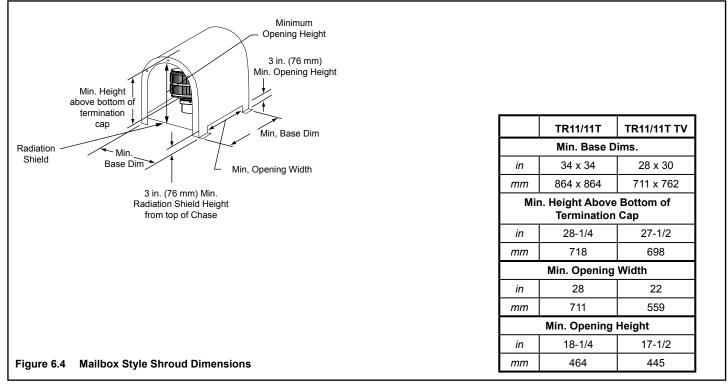


TR11/TR11T caps require radiation shield unless installed partially above the shroud. The TR cap must be raised to the minimum dimensions (or greater) above the shroud. Refer to Figure 6.3.



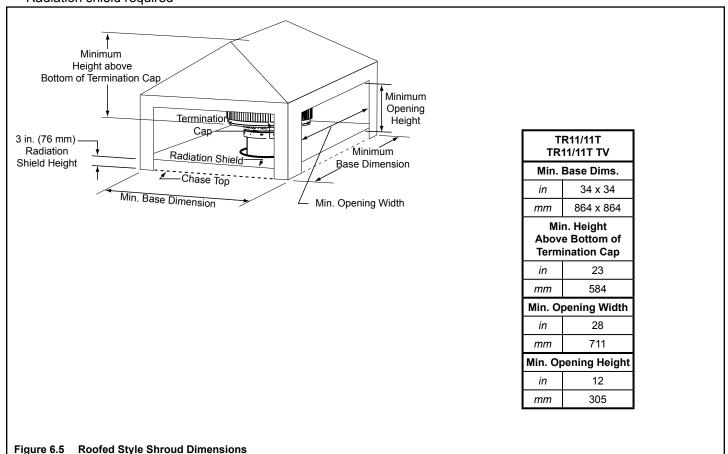
2. Mailbox Style Shroud





3. Roofed Style Shroud





Finishing

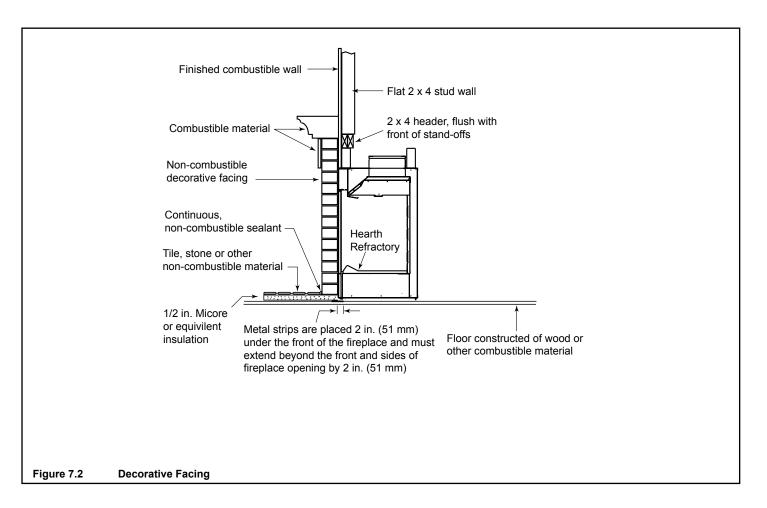
A. Finishing Material

Refer to Sections 1.B. and Sections 1.C. for combustible/ non-combustible materials. Refer to Figure 7.1 for noncombustible zone.

WARNING! Risk of Fire! You must maintain clearances.

- Do NOT cover metal fireplace front with combustible materials.
- Install combustible materials only to specified clearances on top front and side edges.
- Complete framing and apply facing material (drywall) over framing.
- A bead of 300-deg F minimum non-combustible sealant must be used to close off any gaps at the top and sides between the fireplace and facing to prevent cold air leaks.
- Large gaps can be bridged with fiberglass rope gasket.
- Only non-combustible materials may be used to cover the metal fireplace front.

The metal surfaces of the fireplace
may be covered with non-combustible
naterials only.Image: Image: Ima



B. Hearth Extension, Building and Finishing

WARNING! Risk of Fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips MUST be installed.
- Hearth extensions MUST be installed exactly as specified.

A hearth extension must be installed with all fireplaces to protect the combustible floor in front of the fireplace from both radiant heat and sparks.

- You MUST use a hearth extension with this fireplace.
- Refer to Figure 7.3 for minimum dimensions.
- This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 1.03.
- The hearth extension material MUST be covered with tile, stone or other non-combustible material.
- Manufactured hearth materials will usually have a published R value (resistance to heat) or k value (conductivity of heat). Refer to the formula in Table 7.1 to convert a k value to an R value,
- Refer to Table 7.2 for hearth extension insulation alternatives.

WARNING! Risk of Fire!

Hearth & Home Technologies is not responsible for discoloration, cracking or other material failures of finishing materials due to heat exposure or smoke.

· Choose finishing materials carefully.

WARNING! Risk of Fire!

- Maintain clearances.
- Use only non-combustible material below standoffs, material such as cement board is acceptable.
- Framing or finishing material used on the front of the fireplace closer than the minimums listed, must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).

WARNING! Risk of Fire!

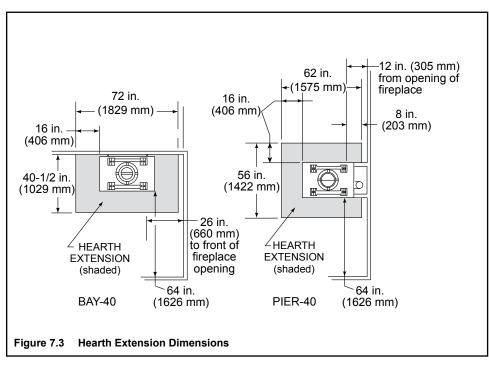
Hearth extensions are to be installed only as illustrated to prevent high temperatures from occurring on concealed combustible materials.

Table 7.1

R = 1/k x inches of thickness

Table 7.2

Hearth Extension Insulation Alternatives, R Value = 1.03					
Material	k per inch thick	r per inch thick	Minimum thickness required		
Hearth & Home HX3, HX4	0.49	2.06	1/2 in.		
USG Micore 300™	0.49	2.06	1/2 in.		
USG Durock™ Cement Board	1.92	0.52	2 in.		
Cement Mortar	5.0	0.20	5 1/8 in.		
Common Brick	5.0	0.20	5 1/8 in.		
Ceramic Tile	12.50	0.08	12 1/4 in.		
Armstrong™ Privacy Guard Plus	0.46	2.18	1/2 in.		
Marble	14.3-20.0	0.07-0.05	14 5/8 in 20 3/8 in.		



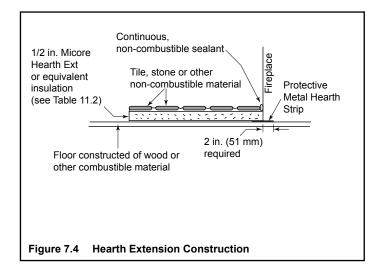
1. Fireplace Installed Flush on the Floor and Hearth Extension Raised to Bottom of Firebox Opening

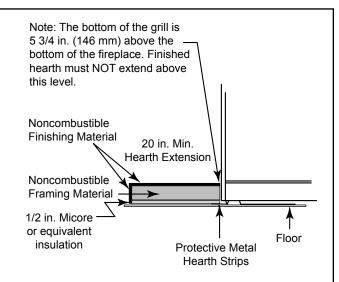
Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 12 in. (305 mm) to each side of the fuel opening is required.

The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and placed on HX3(s), HX4(s), or equivalent material. See Figures 7.4 and 7.5.

When creating the platform, allow for the thickness of the non-combustible finishing materials.

Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.







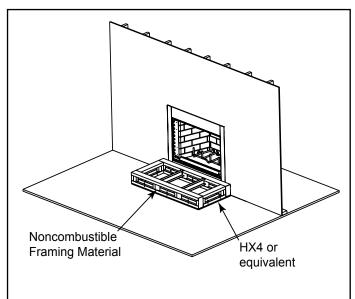
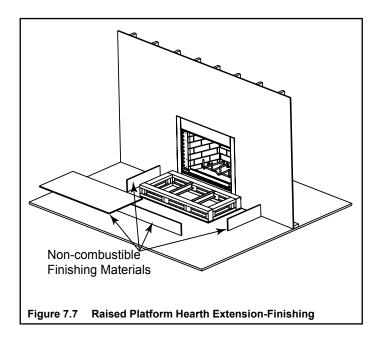


Figure 7.6 Raised Platform Hearth Extension-Framing



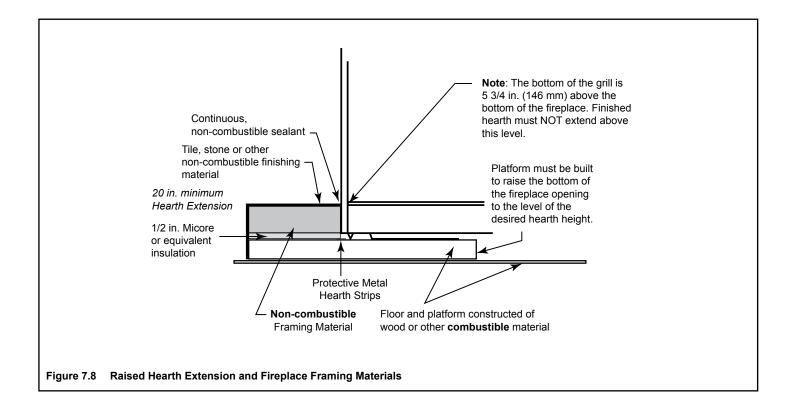
2. Raised Hearth Extension and Raised Fireplace

Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 12 in. (305 mm) to each side of the fuel opening is required.

The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and placed on HX3(s), HX4(s), or equivalent material. See Figure 7.8.

When creating the platform, allow for the thickness of the non-combustible finishing materials.

Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.



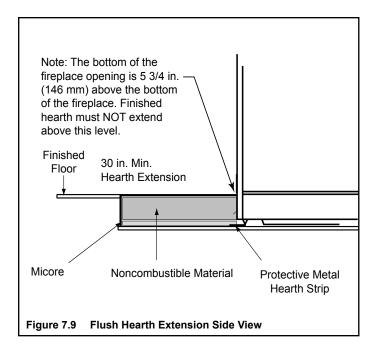
3. Fireplace Opening and Hearth Extension Flush with the Floor

Non-combustible flooring a minimum of 30 in. (762 mm) in front of and 12 in. (305 mm) to each side of the fuel opening is required.

The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and placed on HX3(s), HX4(s), or equivalent material.

When creating the platform, allow for the thickness of the non-combustible finishing materials.

Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.



C. Non-Combustible Sealant Material

After completing the framing and applying the facing materials over the framing, a bead of noncombustible sealant must be used to close off any gaps at the top and sides between the fireplace and hearth.

WARNING! Risk of Fire!

Hearth & Home Technologies is not responsible for discoloration, cracking or other material failures of finishing materials due to heat exposure or smoke.

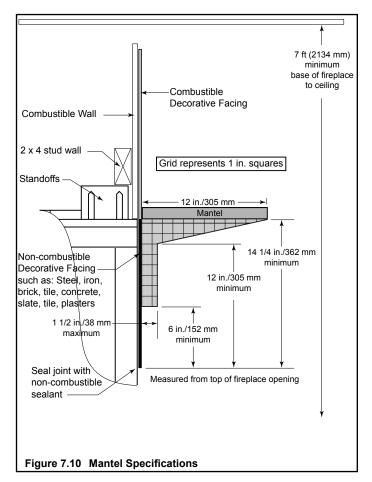
· Choose finishing materials carefully.

D. Mantel and Wall Projections

A combustible mantel may be positioned no lower than 42 1/2 in. (1080 mm) from the base of the fireplace.

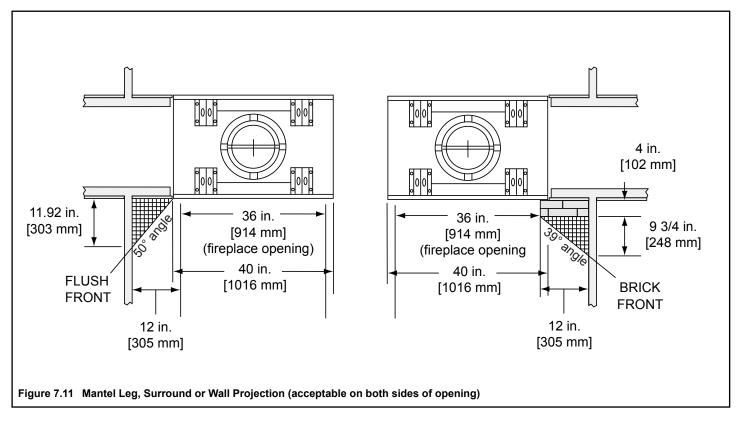
The combustible mantel may have a maximum depth of 12 in. (305 mm). Combustible trim pieces that project no more than 1 1/2 in. (38 mm) from the face of the fireplace can be placed no closer than 6 in. (152 mm) from the top or side of the decorative front. Combustible trim must not cover:

- the metal surfaces of the fireplace
- where the non-combustible board is placed over the metal surfaces
- the space between the metal face of the fireplace and framing members



E. Sidewalls/Surrounds

- Locate adjacent combustible sidewalls a minimum of 12 in. (305 mm) from fireplace opening.
- Mantle leg, surround, stub wall, whether combustible or non-combustible, may be constructed as shown in Figure 7.11.



A. Gas Log/Lighter Provision

WARNING! Fire and/or Asphyxiation Risk! Use with

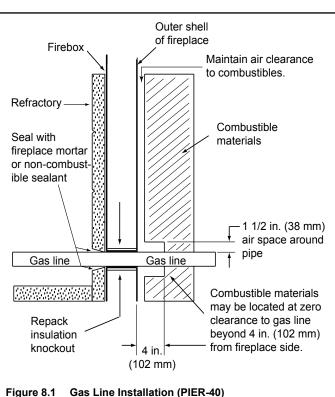
solid wood fuel or decorative gas appliance only. Gas fire generates fumes.

- DO NOT install unvented gas logs
- Damper must be locked fully open when gas logs are installed

Note: Gas supply will be installed from the side on the PIER-40. It will be installed from the bottom on the BAY-40.

A certified gas log lighter or decorative gas log set can be installed in this fireplace.

- Maximum input is 100,000 BTU/hr.
- Decorative gas appliance must be certified to ANSI Z21.60 "Standard for Decorative Gas Appliances for Installation in Vented Fireplaces".
- Must be installed in accordance with the National Fuel Gas Code, ANSI Z223.1.
- A gas log set must incorporate a gas shutoff.
- Gas Log set requires the damper to be locked fully open.
- A listed automatic damper system with safety interlock may be used in this fireplace with only compatible, listed gas log sets. See damper system manufacturer's instructions.
- A knockout is provided on the fireplace and in refractory for 1/2 in. (13 mm) iron pipe.
- Seal refractory around pipe with fireplace mortar or a non-combustible sealant.



B. Wood Burning Inserts

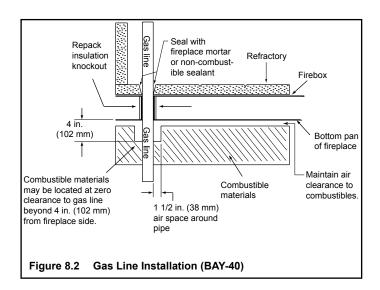
WARNING! Risk of Fire! Improper installation of wood inserts may cause fireplace or chimney system to overheat.

If a wood burning insert is being installed in this fireplace, Hearth & Home Technologies recommends full reline of the chimney.

- Cooling air openings at the top of the chimney must not be obstructed in any manner.
- Hearth & Home Technologies recommends securing the reline at the top of the flue and using the cap certified for use with this fireplace system.

C. Glass Doors (required)

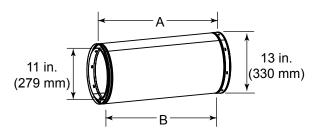
Install glass doors using the instructions provided with them.





A. Chimney Components

Catalog #	Description	
CAK5A	Chimney Air Kit	
ID4/ID6	Insulated Duct/Outside Air	
UD4/UD6	Uninsulated Duct/Outside Air	
SL1106	Chimney Section - 6 in. (152 mm) long	
SL1112	Chimney Section - 12 in. (305 mm) long	
SL1118	Chimney Section - 18 in. (457 mm) long	
SL1136	Chimney Section - 36 in. (914 mm) long	
SL1148	Chimney Section - 48 in. (1219 mm) long	
SL11	Chimney Stabilizer	
SL1130	Chimney Offset/Return - 30 deg	
FS538	Ceiling Firestop - Straight	
FS540	Ceiling Firestop - 30 deg	
AS10	Straight Attic Insulation Shield, 24 in. (610 mm)	
JB577	Chimney Joint Band	
CB576	Chimney Bracket	
RF570	Roof Flashing - Flat to 6/12 Pitch	
RF571	Roof Flashing - 6/12 to 12/12 Pitch	
TR11	Round Termination Cap	
TR11T-B	Round Telescoping Termination Cap	
TCT1175	Terra Cotta Termination Cap	
ST1175	Square Termination Cap	
TR-TVK	TR Top Vent Kit	
DTO134	Short Octagon Decorative Cap	
DTO146	Tall Octagon Decorative Cap	
DTS134	Short Square Decorative Cap	
DTS146	Tall Square Decorative Cap	
LDS33	Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)	
LDS46	Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)	
LDS-BV	Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)	
	Field Constructed Shrouds (See "Woodburning Termination Cap")	
CT-11A-B	Adapter-May be used with the following caps	
	CT-Series	
	DT-Series	

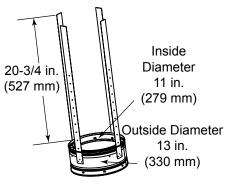


Chimney Sections

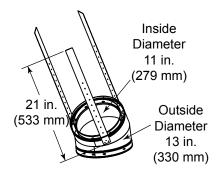
	Α		E	3
Catalog #	in	mm	in	mm
SL1106	6	152	4-3/4	121
SL1112	12	305	10-3/4	273
SL1118	18	457	16-3/4	425
SL1136	36	914	34-3/4	883
SL1148	48	1219	46-3/4	1187

A = Actual Length

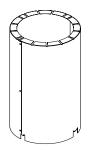
B = Effective Length (length of chimney part after it has been snapped to another)

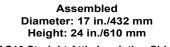


SL11 Chimney Stabilizer

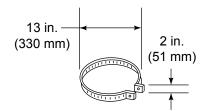


SL1130 Offset/Return

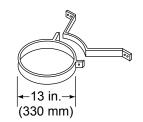




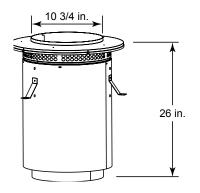
AS10 Straight Attic Insulation Shield



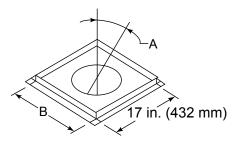
JB577 Chimney Joint Band



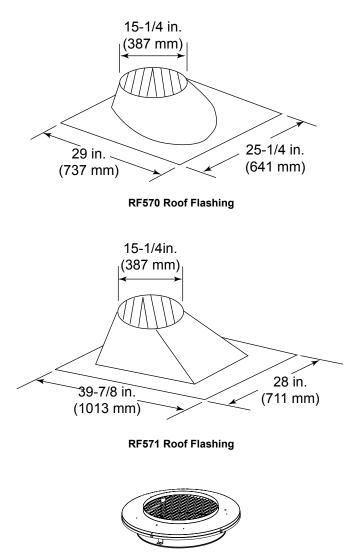
CB576 Chimney Bracket



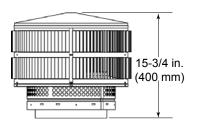
CT11-A Adapter



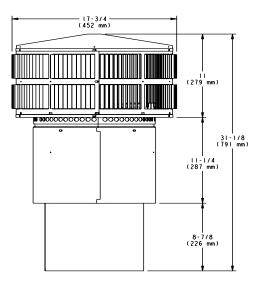
Catalog #	Α	В	
FS538	0-deg.	17 in.	432 mm
FS540	30-deg.	26 in.	660 mm



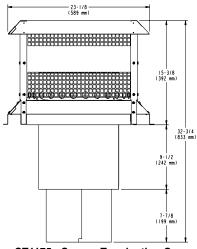
TR-TVK - Top Vent Kit



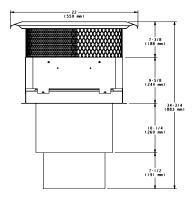
TR11 - Round Termination Cap



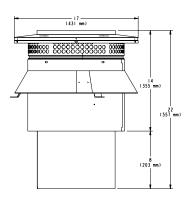
TR11T - Round Telescoping Termination Cap



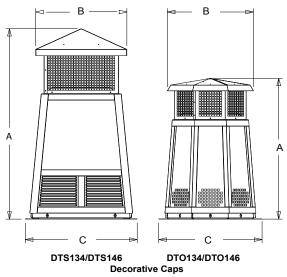
ST1175 - Square Termination Cap





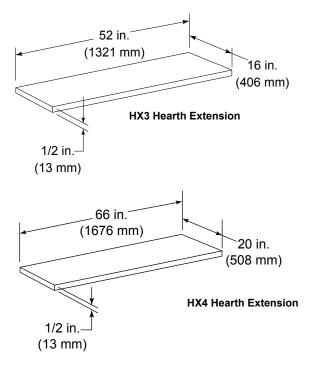


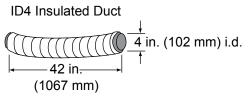
CT11-A Adapter

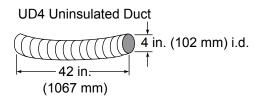


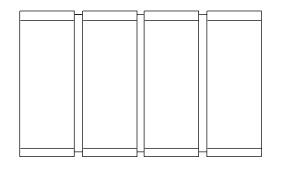
DTO134		Α	В	С
	in	34	20	24
	mm	864	508	610
DTO146				
	in	46	22.7	26
	mm	1168	576	660
DTS134		Α	В	С
	in	34	21.18	24
	mm	864	538	610
DTS146				
	in	46	21.18	26
	mm	1168	538	660

B. Optional Components

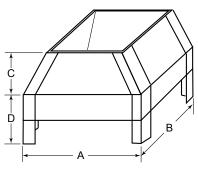








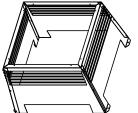
DM1036 Bi-fold Glass Doors, DM1000 End Panel (BAY-40 requires 1 DM1036 door, 2 DM1000 End Panels) PIER-40 requires 2 DM1036 doors, 1 DM1000 End Panel)

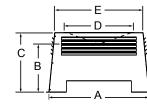


LDS33/LDS46 Decorative Shroud

	Α		В		С		D	
Catalog #	in.	mm	in.	mm	in.	mm	in.	mm
LDS33	36	914	36	914	8.5	216	11	279
LDS46	48	1219	72	1829	8.5	216	11	279

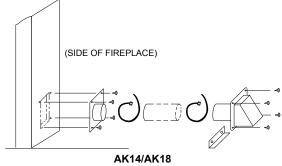
LDSCPM - Corner Post Kit (for custom sizes)





LDS-BV Decorative Shroud

Catalog #		Α	В	С	Е	Е
LDS-BV	in.	26	12.5	15.5	22	23
	mm	660	318	394	533	584



Outside Air Kit (PIER-40 only)

AK17 Outside Air Kit (/////////// only)

See your Heat & Glo dealer for a complete list of optional components.

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Please contact your Heat & Glo dealer with any questions or concerns. For the location of your nearest Heat & Glo dealer, please visit www.heatnglo.com.