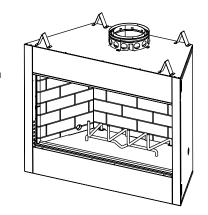
meatilator

The first name in fireplaces

Models: EL36 Series EL42 Series Wood Burning Fireplace



Owner's Manual

Installation and Operation



NOTICE

DO NOT DISCARD THIS MANUAL



Important operating • and maintenance instructions included.

Read, understand and follow these instructions for safe installation and operation.

 Leave this manual with party responsible for use and operation.



A WARNING



If the information in these instructions is not followed exactly, a fire 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.





HOT SURFACES!

Screen/mesh, glass doors and other surfaces are hot during operation AND cool down.

Hot screen/mesh and glass doors will cause burns.

- DO NOT touch screen/mesh or glass doors until cooled
- NEVER allow children to touch screen/mesh or glass doors
- 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.



Installation and service of this fireplace should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.

Fii

▲ WARNING

Fire Risk

- For use with solid wood fuel or decorative gas appliance only.
- DO NOT install unvented gas logs.

Read this manual before installing or operating this fireplace. Please retain this owner's manual for future reference.

Congratulations!

Congratulations on selecting a Heatilator wood burning fireplace. The Heatilator fireplace you have selected is designed to provide the utmost in safety and reliability.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest you keep it with your other important documents and product manuals.

Your new Heatilator wood burning fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Heatilator family of fireplace products!

| Homeowner Reference Information | We recommend that you record the following pertinent information about your fireplace: | | | | |
|---------------------------------|--|--|--|--|--|
| Model Name: | Date purchased/installed: | | | | |
| Serial Number: | Location on fireplace: | | | | |
| Dealership purchased from: | Dealer phone: | | | | |
| Notes: | | | | | |
| | | | | | |
| | | | | | |

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate located on the smoke shield of the fireplace.

| Serial Number | Grate — Fireplace Model |
|--|--|
| FIREPLACE NO. WARNING: RISK FIRE DAMAGE. GRATE WITH HEAR TECHNOLOGIES | REPLACE WIDDEL NO. WIDDEL NO. WIFG. DATE |
| | TECHNOLOGIES INC. LISTED FIREPLACE PARTS. SEE INSTALLATION AND HOME TECHNOLOGIES INC. GLASS DOOR KITS CAN BE INSTALLED ON THIS UNIT. |
| FIREPLACE ALSO FOR USE IN MANUFACTURED HOMES YES NO | CLEARANCE TO CHIMNEY COMBUSTIBLES: 2 IN. MIN. |
| FAN KIT MODEL NO. | RATED AT 115 VOLTS, 50/60 Hz., AMP. |
| DO NOT OVERFIRE. USE ONLY: SOLID WOOD FUEL OR LISTED DECORATIVE GAS APPLIANCE. DO NOT USE A FIREPLACE INSERT OR OTHER PRODUCTS NOT SPECIFIED FOR USE WITH THIS PRODUCT. IF DOORS | WARNING! THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET. TO REDUCE THE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO FIREPLACE. WARNING! THIS APPLIANCE IS NOT FOR USE AS COOKING EQUIPMENT. |
| ARE USED OPERATE FIREPLACE WITH DOORS FULLY OPEN OR CLOSED ONLY. WHEN BURNING A DECORATIVE GAS APPLIANCE IN THE FIREPLACE, ADJUST DAMPER TO THE FULLY OPEN POSITION. | IF INSTALLATION OR OPERATING INSTRUCTIONS ARE MISSING CONTACT: HEARTH & HOME TECHNOLOGIES INC., 1915 W. SAUNDERS ST., MT. PLEASANT, IA 52641. |

Note: An arrow (→) found in the text signifies change in content.

▲ 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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The first name in fireplaces

HEATILATOR WOODBURNING FIREPLACE Limited Warranty

As part of its

20-YEAR BUYER PROTECTION PROGRAM

AS PART OF ITS 20 YEAR BUYER PROTECTION PROGRAM ("PROGRAM"), HEARTH & HOME TECHNOLOGIES

INC. ("HHT") is pleased to offer a Limited Warranty and a Replacement Parts Advantage covering specific components of your Heatilator® woodburning fireplace system (the "Fireplace"), installed in the United States of America or Canada. Dealers and employees of HHT have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this Program.

Limited Warranty

HHT warrants the following components of your Heatilator woodburning fireplace to be free from original defects in material and workmanship during the applicable periods described: five years for the firebox assembly, chimney system and roof termination; two years for refractory firebox liners; and one year for the grate, wire mesh screens, fan system, outside air system, and glass doors. All limited warranty periods run from the date of initial installation of your Fireplace (the "Installation Date"). The Limited Warranty is subject to the conditions, exclusions and limitations of liability listed below.

Replacement Parts Advantage

Under **HHT**'s Replacement Parts Advantage, for a period of twenty years from your Installation Date of your Fireplace, if available, **HHT** will provide you with repair or replacement parts for defective components which are no longer under their applicable Limited Warranty, at 50% of the then current retail list price for such components. **HHT** shall have no responsibility for freight and labor charges related to such parts.

Conditions, Exclusions, & Limitations of Liability

- A. Both the Limited Warranty and Replacement Parts Advantage supplied by HHT apply only while the Fireplace is in its location of original installation. HHT's obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Fireplace not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Fireplace or any other components not expressly authorized and approved by HHT; and/or (7) modification of the Fireplace not expressly authorized and approved by HHT in writing. This warranty is limited to only the component parts manufactured or supplied by HHT.
- B. During the first year of the Limited Warranty, HHT will, at its sole option, repair or replace any covered defective component and will provide replacement parts at no charge. And will pay reasonable labor and freight costs. During the second through the fifth years of the Limited Warranty (if applicable), HHT will provide replacement parts free of charge for any covered defective component, but will not pay for freight or labor costs related to the shipment of the parts or the actual repair or replacement. After the fifth anniversary of the Installation date, HHT's sole obligation and your exclusive remedy is set forth in HHT's Replacement Parts Advantage described above. In no event shall HHT be liable for any incidental or consequential damages caused by defects in your Fireplace.
- C. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.
- D. Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

How to Obtain Service

- 1. To obtain service under this warranty you must:
- 2. Send written notice of the claimed condition to Heatilator Technical Service Department, Hearth & Home Technologies, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563. You may also register your claim online at www.heatilator.com.
- 3. Provide proof of purchase, model number, serial number, and manufacturing date code to HHT.
- 4. Provide **HHT** reasonable opportunity to investigate the claim, including reasonable opportunity to inspect the Appliance prior to any repair or replacement work and before the Appliance or any component of the Appliance has been removed from the place of original installation.
- 5. Obtain **HHT**'s consent to any warranty work before the work is done.

ADDITIONAL INFORMATION: If you would like information on current HEATILATOR products or want to locate a dealer in your area, call 1-800-927-6841.

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1

Listing and Code Approvals

A. Appliance Certification

This fireplace system has been tested and listed in accordance with UL 127 and ULC-S610 standards by Underwriters Laboratories Inc. for installation and operation in the United States and Canada.

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. Installation of an outside air kit will require significant reconstruction and is best if installed at the time of fireplace installation.

Heatilator is a registered trademark of Hearth & Home Technologies Inc.

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 an 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.

NOTICE: This fireplace is tested and approved as a decorative fireplace. It should not be factored as a primary heat source in residential heating calculations.

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
- Any material that can ignite and burn; flame proofed or not, plastered or un-plastered

User Guide

2

Operating Instructions

▲ 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.

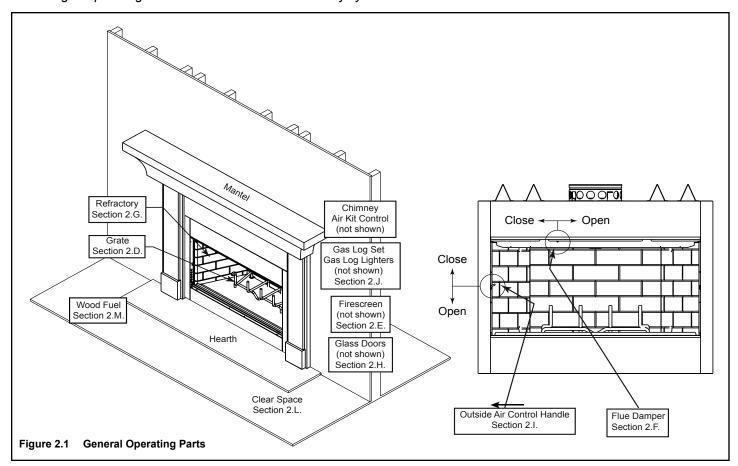
High temperatures may ignite clothing or other flammable materials.

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

If you expect that children may come into contact with this fireplace, we recommend a barrier such as a decorative screen. See your dealer for suggestions.

A. Your Fireplace

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. Failure to operate fireplace according to operating instructions could cause fire or injury.



B. Seasoned Wood

Properly seasoned wood is important for successful operation of your fireplace. Most woodburning fireplace problems are caused by burning wet, unseasoned wood.

Seasoned firewood is wood that is cut to size, split and air dried to a moisture content of around 20%.

Imagine a wooden bucket that weighs about eight pounds. Fill it with a gallon of water, put it in the fireplace and try to burn it. This sounds ridiculous but that is exactly what you are doing if you burn unseasoned wood.

A tree cut down a year ago and not split is likely to have almost as high a moisture content now as it did when it was cut

Please refer to Section 2.M for more detail.

C. Starting a Fire

NOTICE: You must establish a good draft to prevent smoke spillage into the room.

WARNING! Risk of Fire! Keep combustible materials, gasoline and other flammable vapors and liquids clear of the fireplace.

DO NOT:

- · store flammable materials close to the fireplace
- use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this fireplace.

Keep all flammable liquids well away from the fireplace while it is in use. Combustible materials may ignite.

- The first three or four fires should be of moderate size to allow the oils and binders to be burned from the fireplace and the refractory and paint to cure. You may notice an industrial odor the first few fires. This is considered normal.
- · Use well-seasoned wood.
- · Open the flue damper to a fully open position.
- Place crumpled or twisted paper under the fireplace grate.
- Loosely arrange kindling or small pieces of wood to form a 'tent' on the fireplace grate.
- Pre-warm the flue to establish a draft to help reduce smoke spillage during start-up. Hold a rolled up piece of burning newspaper under the flue damper for a few moments.
- Light the crumpled paper to ignite the kindling.
- Add small pieces of wood until a hot bed of embers has been established.
- Add a minimum of three average size pieces of split firewood, placed to allow combustion air and flames between them.

CAUTION! Odors and vapors released during initial operation may be irritating to sensitive individuals. **Open windows for air circulation.**

D. Grate

This fireplace is designed to be used with the grate supplied with this unit or one approved by HHT. The grate will break down over time and will need occasional replacement.

WARNING! Risk of Fire! Use only the factory-supplied integral grate.

- · Keeps logs in place.
- Allows proper air circulation around the fire.

E. Firescreen

The firescreen is provided to control sparks. Keep it closed when the fireplace is in use.

WARNING! Risk of Fire or Burns!

- Screen will not prevent burning materials from falling out
- · Screen pulls or handles may be hot.

F. Flue Damper

- · Refer to Figure 2.1 for location of control.
- Must be in fully open position (handle up toward the top of the fireplace) during operation of the fireplace.
- Before lighting the fireplace, verify fully open position by looking up from the inside of the fireplace.

WARNING! Risk of Fire and Asphyxiation! Open damper prior to operating fireplace. A closed damper overfires the fireplace and spills smoke and flames into the room.

G. Refractory

- The refractory is supplied to contain heat and provide an attractive interior.
- It will break down over time and will need occasional replacement. Small hairline cracks and discoloration are normal and do not affect its safety.
- (See refractory maintenance Section 3.C.)

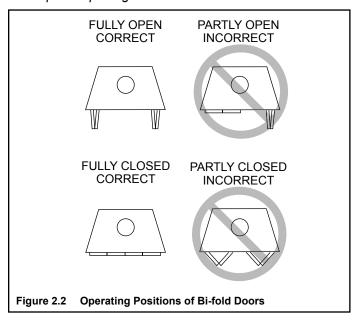
WARNING! Risk of Fire! DO NOT burn fireplace without refractory. Use only refractory supplied by Hearth & Home Technologies, Inc.

H. Glass Doors

- · Glass doors are optional.
- Refer to Figure 2.2 for how to properly use them.

WARNING! Risk of Fire! Install ONLY doors approved by Hearth & Home Technologies, Inc.

WARNING! Risk of Fire and Smoke! 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.



I. Outside Air (optional)

The outside air kit supplies some combustion air for your fireplace. It may help reduce the effects of negative air pressure. (See Section 5.D.)

- Refer to Figure 2.1 for location of control
- Close the inlet to prevent cold drafts when the fireplace is not being used.

CAUTION! Risk of Burns! The outside air control handle is HOT when fireplace is in operation. Adjust BEFORE lighting fire.

J. Vented Gas Log Sets & Gas Log Lighters

- Optional
- Vented gas logs or gas log lighters can be installed in this fireplace. Follow the instructions provided with the accessory for operation.

WARNING! Risk of Fire or Asphyxiation!

- DO NOT install unvented gas logs.
- Damper must be locked open.
- · Gas flame may generate fumes.

K. Optional Components

- · Other options may be available
- · Consult your dealer/distributor

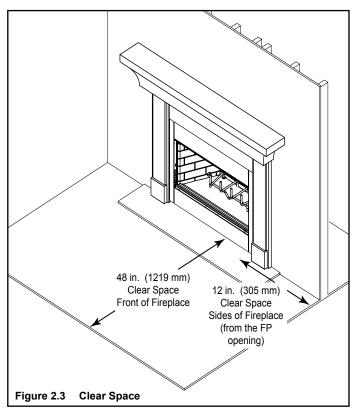
WARNING! Risk of Fire! DO NOT install and or use any component not approved by Hearth & Home Technologies Inc.

L. Clear Space

 Do not place combustible objects within areas indicated in Figure 2.3.

WARNING! DO NOT place combustible objects in front of the fireplace. High temperatures may ignite clothing, furniture or draperies.

 Mantel - avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.



M. Wood Fuel

Hardwood vs Softwood

Your fireplace performance depends on the quality of the firewood you use.

- Seasoned wood contains about 8,000 BTUs per pound
- Hard woods are more dense than soft woods.
- Hard woods contain 60% more BTUs than soft woods.
- Hard woods require more time to season, burn slower and are harder to ignite.
- Soft woods require less time to dry, burn faster and are easier to ignite.
- Start the fire with soft wood to bring the fireplace up to operating temperature and to establish draft.
- Add hard wood for slow, even heat and longer burn time.

| Soft woods | Hard woods |
|--|---|
| Douglas FirPineSpruceCedarPoplarAspenAlder | OakMapleAppleBirch |

Moisture

WARNING! Risk of Fire!

- DO NOT burn wet or green wood.
- Wet, unseasoned wood can cause accumulation of creosote.

The majority of the problems fireplace owners experience are caused by trying to burn wet, unseasoned wood.

- Wet, unseasoned wood requires energy to evaporate the water instead of heating your home, and
- Evaporating moisture cools your chimney, accelerating formation of creosote.

Seasoned Wood

- Cut logs to size
- Split to 6 in. (152 mm) or less
- Air dry to a moisture content of around 20%
 - Soft wood about nine months
 - Hard wood about eighteen months

NOTICE: Seasoning time may vary depending on drying conditions.

Storing Wood

Steps to ensure properly seasoned wood:

- Stack wood to allow air to circulate freely around and through woodpile.
- Elevate wood pile off ground to allow air circulation underneath.
- Smaller pieces of wood dry faster. Any piece over 6 in. (152 mm) in diameter should be split.
- Wood (whole or split) should be stacked so both ends of each peice are exposed to air. More drying occurs through the cut ends than the sides.
- Store wood under cover to prevent water absorbtion from rain or snow. Avoid covering the sides and ends completely.

WARNING! Fire Risk! DO NOT store wood:

- In front of the fireplace.
- In space required for loading or ash removal.

Processed Solid Fuel Firelogs

Manufactured firelogs may be used with this fireplace. Hearth & Home Technologies Inc. recommends the use of UL Classified processed fuel firelogs. Follow the manufacturer's lighting and safety instructions.

Using firelogs may require more frequent chimney inspection and cleaning.

Do not poke or stir the logs while they are burning. Use only firelogs that have been evaluated for the application in manufactured fireplaces and refer to firelog warnings and caution markings on packaging prior to use.

3

Maintainance and Service

A. Disposal of Ashes

Frequency: When they reach bottom of grate

By: Homeowner

WARNING! Risk of Fire! Ashes could contain hot embers.

- Place ashes in a metal container with a tight-fitting lid.
- The closed container 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.

B. Chimney Inspection/Cleaning

Frequency: At least twice a year during heating season or as recommended by a certified chimney sweep **By:** Certified chimney sweep

WARNING! Risk of Fire! Ignited creosote is extremely HOT. Prevent creosote buildup.

Refer to Figure 3.1 to remove/reinstall termination caps.

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.

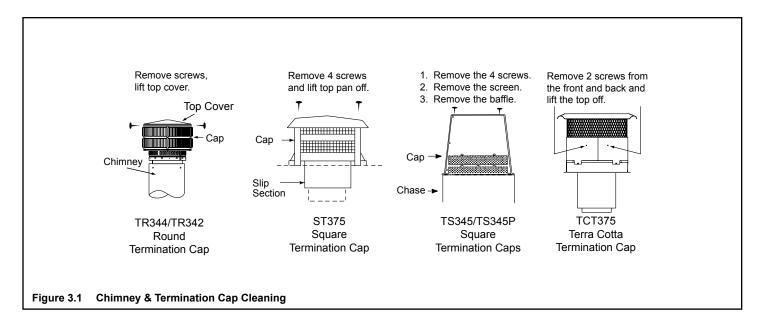
WARNING! Risk of Fire! A chimney fire can permanently damage your chimney system and nearby structures.

In the event of a chimney fire, Hearth & Home Technologies Inc. recommends

- · replacement of the chimney, and
- inspection of the adjacent structure to the provisions of NFPA Level III inspection criteria.

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 it shall be removed to reduce the risk of a chimney fire.



C. Check Firebox Refractory

Frequency: After each ash removal

By: Homeowner

WARNING! Risk of Fire! Inspect fireplace refractory. Crumbling, deteriorated refractory can allow overheating of surrounding materials.

Expansion and contraction will cause minor cracking of the refractory. This is normal. The refractory will require periodic replacement depending on use.

The panels should be replaced if

- Cracks exceed ¼ inch (6 mm) in width,
- Metal is exposed behind the refractory,
- Large pieces of refractory fall out.

D. Inspect Grate

Frequency: After each ash removal

By: Homeowner

Inspect grate for:

- Warping or sagging 1-1/2 in. (38 mm) or more
- · Broken welds
- · Burn-through of grate bars

For safe operation, replace only with an approved grate from Hearth & Homes Technologies Inc.

E. Glass Cleaning

Frequency: As desired **By**: Homeowner

CAUTION! Handle glass assembly with care. Glass is breakable.

- · Avoid striking, scratching or slamming glass
- · Avoid abrasive cleaners
- DO NOT clean glass while it is hot

Clean glass with a non-abrasive commercially available cleaner or ashes:

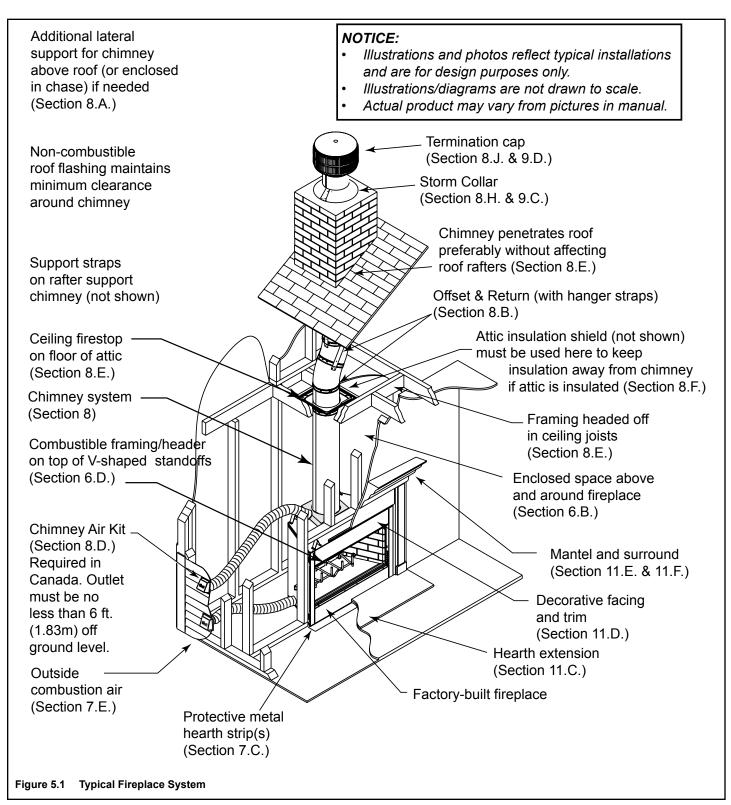
- · Light deposits
 - Use household glass cleaner
- Heavy deposits
 - Use wood ash on damp cloth or,
 - Use commercial fireplace glass cleaner (consult with your dealer)

Troubleshooting Guide

| Start Fire Problems | Possible Cause | Solution | | |
|--|---|---|--|--|
| Can't get fire started Excessive smoke or spillage | Not enough kindling/paper or no kindling/paper | Use dry kindling, more paper. Arrange kindling & wood for air movement. | | |
| Burns too slowly Smolders, sizzles | Damper closed/not fully open | Open damper. | | |
| · | Not enough air for fire to ignite | Check for restricted cap/shroud. | | |
| | | Open air kit (if installed). | | |
| | | Check for flue blockage. | | |
| | | Pre-warm flue before starting fire (refer to starting fire section). | | |
| | | Check for adequate vent height (refer to chimney assembly section). | | |
| | | Open window below the fireplace towards the wind. | | |
| | Wood condition is too wet, too large | Use dry, seasoned wood (refer to wood fuel section). | | |
| | Bed of coals not established before adding wood | Start with paper & kindling to establish bed of coals (refer to starting fire section). | | |
| | Flue blockage such as birds' nests or leaves in termination cap | Have chimney inspected for creosote and cleaned by a certified chimney sweep. | | |
| | Down draft or negative pressure Competition with exhaust | Do not use exhaust fans during start-up (refer to negative pressure section). | | |
| | devices | Open window below the fireplace towards the wind. | | |
| Fire burns too fast | Extremely dry or soft wood | Mix in hardwood. | | |
| | | Mix in less seasoned wood after fire is established (refer to wood fuel section). | | |
| | No glass doors | Add glass doors to slow down air flow. | | |
| | Overdrafting | Check for correct vent height; too much vertical height creates overdrafting. | | |
| | | Check location of vent termination (refer to chimney assembly section). | | |

Installer Guide

5 Getting Started



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.

Before installing, 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
- Whether optional accessories—devices such as a fan, wall switch or remote control—are desired

NOTICE: Junction box should be installed during initial setup to avoid major reconstruction.

C. Draft

Draft is the pressure difference needed to vent fireplaces successfully. When a fireplace is drafting successfully, all combustion byproducts are exiting the home through the chimney.

Considerations for successful draft include:

- · Preventing negative pressure
- Location of fireplace and chimney

NOTICE: Hearth & Home Technologies assumes no responsibility for the improper performance of the fireplace system caused by:

- · Inadequate draft due to environmental conditions
- Downdrafts
- Tight sealing construction of the structure
- Mechanical exhausting devices
- Improper location of the chimney

D. Negative Pressure

WARNING! Risk of Asphyxiation! Negative pressure can cause spillage of combustion fumes and soot. Fire must draft properly for safe operation.

Negative pressure results from the imbalance of air available for the fireplace to operate properly. It can be strongest in lower levels of the house.

Causes include:

- · Exhaust fans (kitchen, bath, etc.)
- · Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- · Clothes dryers
- Location of return-air vents to furnace or air conditioning
- · Imbalances of the HVAC air handling system
- Upper level air leaks such as:
 - Recessed lighting
 - Attic hatch
 - Duct leaks

To minimize the effects of negative air pressure:

- 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
- · Basement installations should be avoided

NOTICE: Hearth & Home Technologies Inc. recommends the use of direct vent fireplaces in basements.

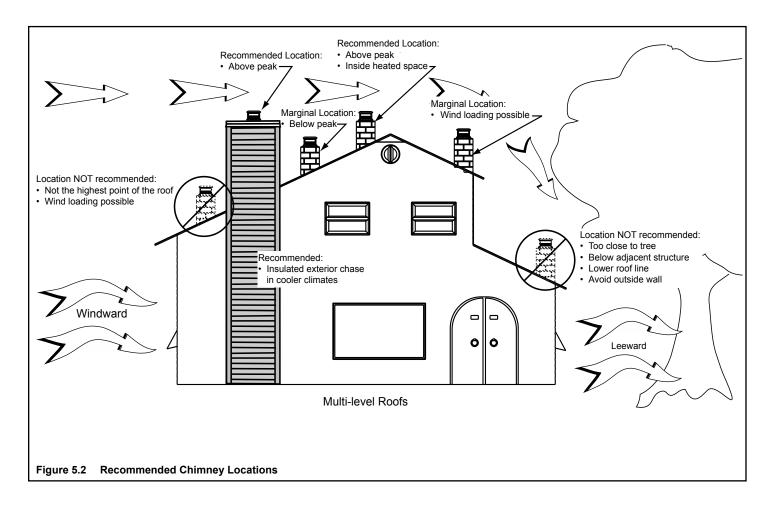
E. Locating Fireplace & Chimney

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.
- 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 Section 8 and Section 9.

NOTICE: Locating the fireplace in a basement or in a location of considerable air movement can cause intermittent smoke spillage from fireplace. Do not locate fireplace near

- · frequently open doors
- · central heat outlets or returns



F. 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

G. Fireplace System Requirements

This fireplace system requires:

- Fireplace
- Hearth Refractory
- Grate Assembly
- Hearth Extension (required, sold separately)
- Chimney Air Kit (required in Canada)
- Chimney System (required, sold separately)
- Termination Cap (required, sold separately)

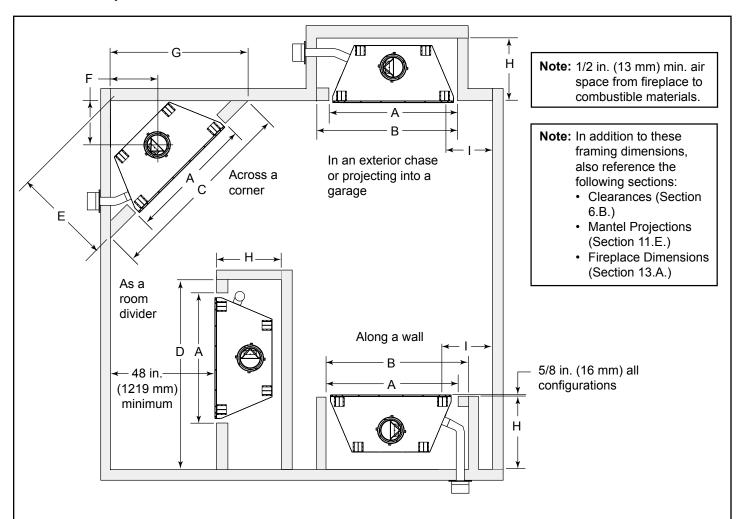
H. Inspect Fireplace and Components

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

6

A. Select Fireplace Location



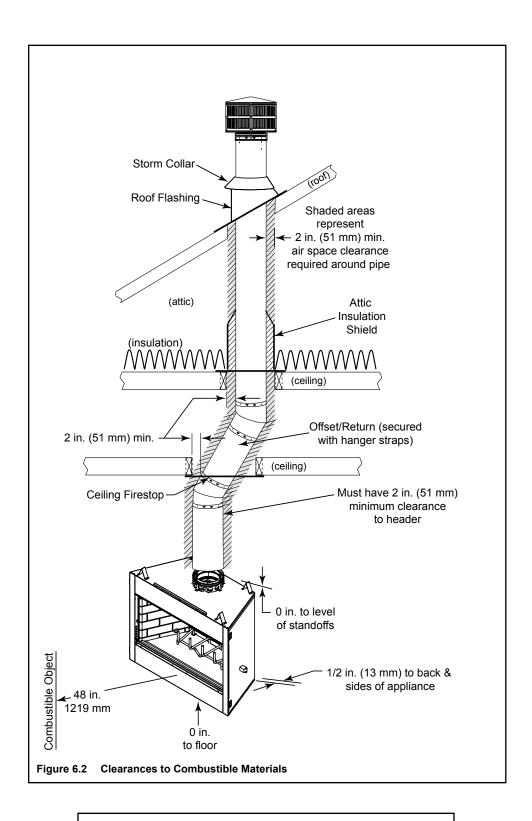
Note: Measurements are FRAMING dimensions only and do not include drywall either in the cavity or on the interior walls.

| Model | | Α | В | С | D | E | F | G | Н | I |
|-------|--------|------|------|--------|--------|--------|-----|--------|-----|--------------------------------|
| EL36 | inches | 42 | 50 | 67 7/8 | 59 1/2 | 34 | 14 | 48 | | 12 in. (305 mm) |
| ELSO | mm | 1067 | 1270 | 1724 | 1511 | 864 | 356 | 1219 | 546 | Minimum from FP opening to any |
| EL42 | inches | 48 | 56 | 73 7/8 | 65 1/2 | 37 1/4 | 14 | 52 1/4 | | perpendicular wall. |
| EL42 | mm | 1219 | 1422 | 1876 | 1664 | 946 | 356 | 1327 | 546 | |

Figure 6.1 Fireplace Locations (Framing dimensions shown)

B. Clearances

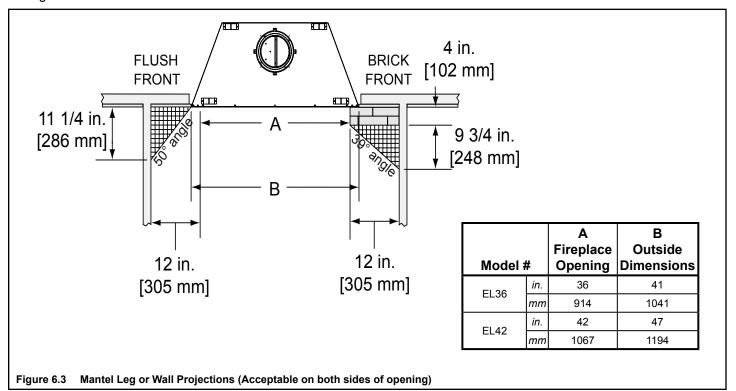
WARNING! Risk of Fire! You must comply with all minimum air space clearances to combustibles as specified in Figure 6.2. **DO NOT** pack required air spaces with insulation or other materials.



Note: Chimney air kit is not shown, but is required in Canada.

C. Sidewalls/Surrounds

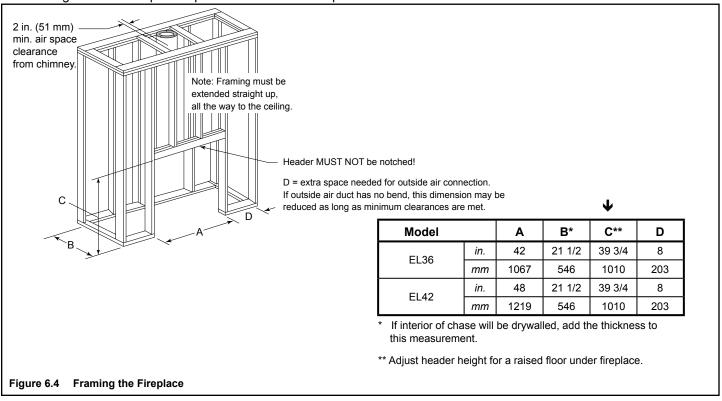
- Adjacent combustible sidewalls must be located a minimum of 12 in. (305 mm) from the fireplace opening.
- Combustible and noncombustible mantel legs, surrounds and stub walls may be constructed within the gridded area, Figure 6.3.



D. Frame the Fireplace

Figure 6.4 shows typical framing using combustible materials (2x4 lumber shown).

- Observe all required air space clearances to combustible materials as shown in Figure 6.1 & 6.2.
- Framing across the top of fireplace must be above top standoffs.



7

Installation of Fireplace

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

A. Things to Consider

- Location of chimney air kit (see Figure 7.4)
- · Location(s) of outside air kit
- · Electrical connections and/or wall switch
- · Gas line piping

B. Position the Fireplace

- Place the fireplace on a continuous flat surface.
- · Follow framing instructions in Section 6.

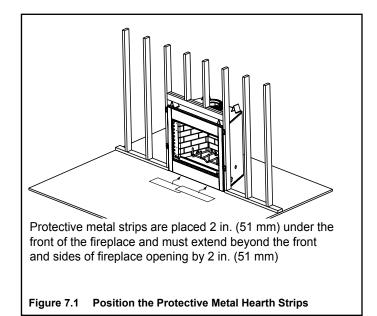
WARNING! Risk of Fire! Prevent contact with sagging, loose insulation.

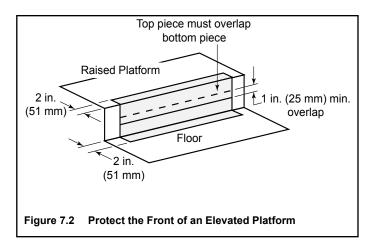
- DO NOT install against vapor barriers or exposed insulation.
- · Secure insulation and vapor barriers.
- Provide minimum air space clearances at the sides and back of the fireplace assembly as outlined in Section 6.

C. Place Protective Metal Hearth Strips

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

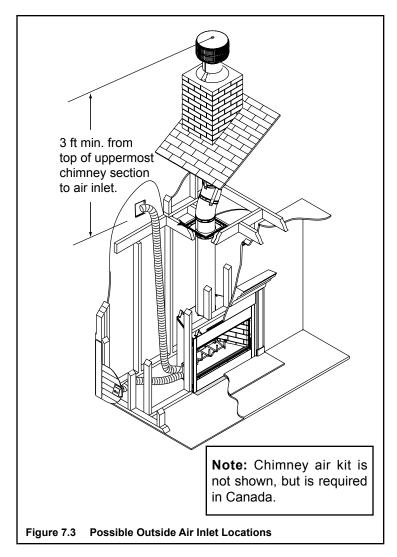
- Refer to Figures 7.1 and 7.2.
- Locate the two protective metal hearth strips measuring approximately 26 in. x 4 in. (660 mm x 102 mm) included with this fireplace.
- Slide each metal strip 2 in. (51 mm) under front edge of fireplace.
- Overlap strips in the middle of fireplace opening by 1 in. (25 mm) minimum..
- Metal strips must extend beyond the front and sides of the fireplace opening by at least 2 in. (51 mm).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 7.2. See Section 11 for hearth extension instructions.

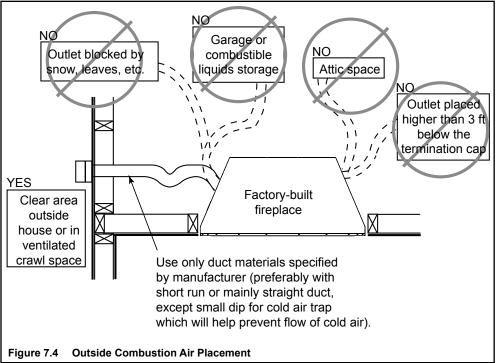




D. Level Fireplace

- · Level fireplace side-to-side and front-to-back.
- Shim with non-combustible material as necessary.
- Secure fireplace to framing with nailing flanges with a minimum of two fasteners per nailing flange.
- Check fireplace opening for square to ensure proper fit of glass doors. Measure diagonals of fireplace opening to make sure they are equal.



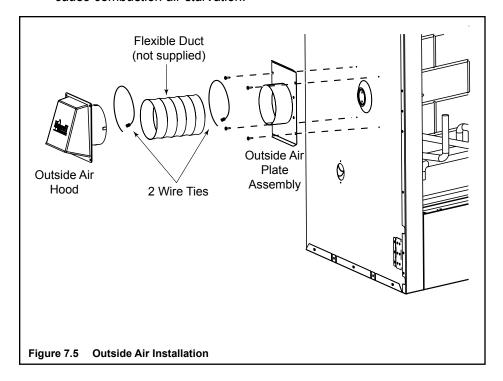


E. Install Outside Air Kit

- Optional.
- Keep duct runs short and straight to minimize restriction.
 A small dip is acceptable for a cold air trap.
- The outside air kit must be installed on the left hand side of the fireplace.
- Locate the outside air hood in a clear area, preferably into prevailing wind during the heating season. Refer to Figure 5.2.
- Install as shown in Figures 7.3, 7.4 and 7.5.
- The air duct may be run vertically.
- The outside air hood must be at least 3 ft (.91 m) below the top of the uppermost chimney section.

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 hood close to exhaust vents or chimneys. Fumes or odor could be drawn into the room through the fireplace.
- Locate outside air inlet to prevent blockage from leaves, snow/ice, or other debris. Blockages could cause combustion air starvation.

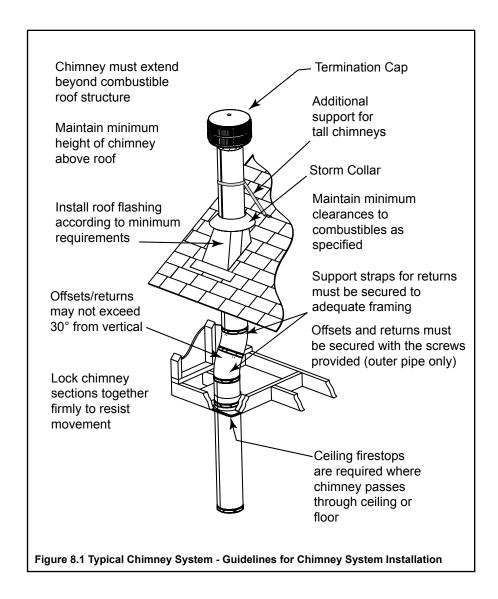


8

Chimney Assembly

NOTICE: Chimney performance may vary.

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



A. Chimney Requirements

Measure vertical distances from the base of the fireplace as shown in Figure 8.2.

| • | Minimum overall straight height | 13 | (3.96 m) |
|---|--|---------|-----------|
| • | Minimum height with offset/return | 14.5 ft | (4.42 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) |
| • | Double offset/return minimum height | 20 ft | (6.1 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) |

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.

Table 8.1

| HEIGHT OF CHIMNEY COMPONENTS | in. | mm | | | | | |
|------------------------------|--------|------|--|--|--|--|--|
| Chimney Stabilizer | | | | | | | |
| SL3 | 4-3/4 | 121 | | | | | |
| Ceiling Firestops | | | | | | | |
| FS338 | 0 | 0 | | | | | |
| FS339 | 0 | 0 | | | | | |
| FS340 | 0 | 0 | | | | | |
| Offsets/Returns | | | | | | | |
| SL315 | 13-3/8 | 340 | | | | | |
| SL330 | 15-1/2 | 394 | | | | | |
| Roof Flashing | | | | | | | |
| RF370 | 0 | 0 | | | | | |
| RF371 | 0 | 0 | | | | | |
| Chimney Sections* | | | | | | | |
| SL306 | 4-3/4 | 121 | | | | | |
| SL312 | 10-3/4 | 273 | | | | | |
| SL318 | 16-3/4 | 425 | | | | | |
| SL324 | 22-3/4 | 578 | | | | | |
| SL336 | 34-3/4 | 883 | | | | | |
| SL348 | 46-3/4 | 1187 | | | | | |

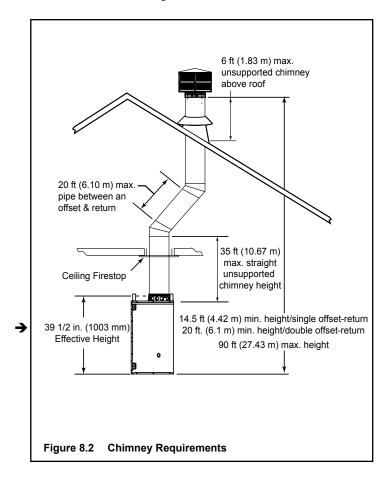
^{*} Dimensions reflect effective height.

Determine the chimney components needed to complete your particular installation:

- Measure the total vertical height of the fireplace installation from the base of the fireplace assembly to the approximate location of the bottom of the termination cap.
- Subtract the effective height of the fireplace assembly (see Figure 8.2) from the total vertical height to determine the overall height of the chimney installation.
- Create a schematic for your application similar to Figure 8.2 showing components required (referring to Table 8.1). Figure 8.1 identifies those components and where used.
- Install a ceiling firestop whenever the chimney penetrates a floor/ceiling.

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

CAUTION! Risk of Fire and/or Asphyxiation! DO NOT connect this fireplace to a chimney flue servicing another appliance. DO NOT connect to any air distribution duct or system. These actions could cause overheating/fire in the chimney flue, or release of exhaust fumes into the living areas.

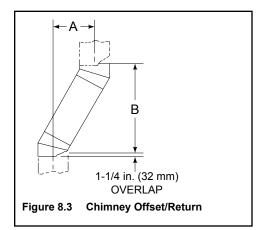


B. Using Offsets/Returns

- 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.

- Measure the shift needed to avoid the overhead obstruction. Refer to dimension A in Figure 8.3.
- Find the appropriate A dimension listed in Table 8.2.
- The B dimension coinciding with the A dimension measurement in Table 8.2 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 8.3 is 14 1/2 in. (368 mm). Using Table 8.2 the dimension closest to, but not less than 14 1/2 in. (368 mm) is 14 1/2 in. (368 mm) using a 30° offset/return.

You determine from the table that you need 34 1/8 in. (867 mm) (Dimension "B") between the offset and return.

The chimney component that best fits your application is one SL324.

Table 8.2

| | 15-de | egree | | | | | | | | | 30-degree | | |
|----------|-------|----------|------|-------|-------|-------|-------|-------|-------|--------|-----------|----------|------|
| A Off | | E Hei | - | | | | | | | _ | \ set | E Hei | |
| in. | mm | in. | mm | SL306 | SL312 | SL318 | SL324 | SL336 | SL348 | in. | mm | in. | mm |
| 1-5/8 | 41 | 13-3/8 | 340 | - | - | - | - | - | - | 3-5/8 | 92 | 15-1/2 | 394 |
| 2-7/8 | 73 | 17-3/4 | 451 | 1 | - | - | - | - | - | 5-1/2 | 140 | 18-5/8 | 473 |
| 4-1/8 | 102 | 22-3/8 | 568 | 2 | - | - | - | - | - | 7-1/4 | 184 | 21-3/4 | 552 |
| 4-1/2 | 114 | 23-5/8 | 600 | - | 1 | - | - | - | - | 8-1/2 | 216 | 23-3/4 | 603 |
| 5-3/4 | 146 | 28-1/4 | 718 | 1 | 1 | - | - | - | - | 10-1/4 | 260 | 27 | 686 |
| 6 | 152 | 29-3/8 | 746 | - | - | 1 | - | - | - | 11-1/2 | 292 | 29 | 737 |
| 7-1/4 | 184 | 34 | 864 | - | 2 | - | - | - | - | 13-1/4 | 337 | 32-1/8 | 816 |
| 7-3/4 | 197 | 36-1/8 | 918 | - | - | - | 1 | - | - | 14-1/2 | 368 | 34-1/8 | 867 |
| 8-3/4 | 222 | 39-3/4 | 1010 | 1 | - | - | 1 | - | - | 16-1/4 | 413 | 37-3/8 | 949 |
| 10-3/8 | 264 | 45-5/8 | 1159 | - | - | 2 | - | - | - | 19-1/4 | 489 | 42-1/2 | 1080 |
| 10-5/8 | 270 | 46-3/4 | 1187 | - | - | - | - | 1 | - | 20-1/2 | 521 | 44-5/8 | 1133 |
| 11-7/8 | 302 | 51-3/8 | 1305 | 1 | - | - | - | 1 | - | 22-1/4 | 565 | 47-3/4 | 1213 |
| 13-1/2 | 243 | 57-1/4 | 1454 | - | - | - | 2 | - | - | 25-1/4 | 641 | 52-7/8 | 1343 |
| 13-3/4 | 349 | 58-3/8 | 1483 | - | - | - | - | - | 1 | 26-1/2 | 673 | 55 | 1397 |
| 15 | 381 | 63 | 1600 | 1 | - | - | - | - | 1 | 28-1/4 | 718 | 58-1/8 | 1476 |
| 16-1/2 | 419 | 68-3/4 | 1746 | - | 1 | - | - | - | 1 | 31-1/4 | 794 | 63-1/4 | 1607 |
| 18 | 457 | 74-5/8 | 1895 | - | - | 1 | - | - | 1 | 34-1/4 | 870 | 68-1/2 | 1740 |
| 19-5/8 | 498 | 80-3/8 | 2042 | - | - | - | 1 | - | 1 | 37-1/4 | 946 | 73-3/4 | 1873 |
| 20-5/8 | 524 | 84-1/8 | 2137 | 1 | - | - | 1 | - | 1 | 39-1/8 | 994 | 76-7/8 | 1953 |
| 22-3/4 | 578 | 91-7/8 | 2334 | - | - | - | - | 1 | 1 | 43-1/4 | 1099 | 84-1/8 | 2137 |
| 24 | 610 | 96-1/2 | 2451 | 1 | - | - | - | 1 | 1 | 45-1/8 | 1146 | 87-1/4 | 2216 |
| 25-7/8 | 657 | 103-1/2 | 2629 | - | - | - | - | - | 2 | 49-1/4 | 1251 | 94-1/2 | 2400 |

Proper assembly of air-cooled chimney parts result in an overlap at chimney joints of 1-1/4 in. (32 mm). Effective length is built into this chart.

C. Assemble Chimney Sections

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

- Use only those components described in this manual. Substitute or damaged chimney components could impair safe operation and cause overheating and fire.
- Support 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.
- Attach a straight chimney section or an offset to the top of the fireplace.
- Place inner flue to the inside of the chimney section below it. Place the outer casing outside the outer casing of the chimney section below it. Refer to Figure 8.4.

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

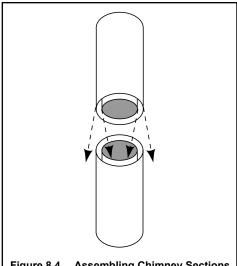
- Lock chimney sections and/or offsets/returns together by pushing downward until the top section meets the stop bead on the lower section.
- · Pull on the top section to make sure it is fully engaged and will not separate.
- You may use #6 or #8 sheet metal screws no longer than 1/2 in. (13 mm) to fasten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

D. Install Chimney Air Kit

- Required in Canada.
- Follow instructions provided with this accessory.



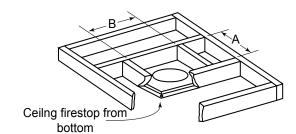
Assembling Chimney Sections Figure 8.4

E. Install Ceiling Firestops

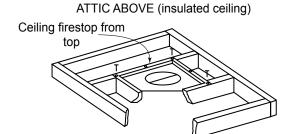
CAUTION! Risk of Fire! Ceiling firestops must be used whenever the chimney penetrates a ceiling/floor.

- 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 8.5.
- 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).



ROOM ABOVE (non-insulated ceiling)



Note: Use same dimensional lumber for framing ceiling firestop and joists.

| | Α | | E | | |
|-----------|--------|-----|--------|-----|-------|
| Catalog # | in. | mm | in. | mm | Angle |
| FS338 | 14-1/2 | 368 | 14-1/2 | 368 | 0° |
| FS339 | 14-1/2 | 368 | 18-3/8 | 467 | 15° |
| FS340 | 14-1/2 | 368 | 23 | 584 | 30° |

Figure 8.5 Installing the Ceiling Firestop

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

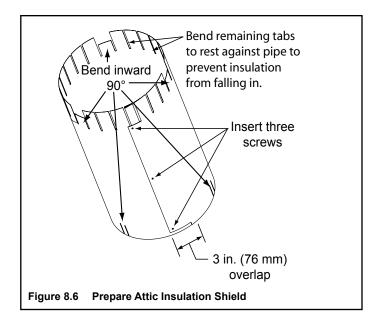
- Refer to Figures 8.6 8.8.
- Roll the shield (around the chimney if already installed) until you have a 3 in. (76 mm) overlap and the three holes on each side match up (large holes on top).
- Insert three screws into the matching holes to form a tube.
- Bend three tabs on the bottom of the tube inward to 90° to maintain chimney air space (refer to Figure 8.6).
- Rest the insulation shield on the ceiling firestop below.
- Bend the three short tabs at the top of the shield inward to 90° to maintain the 2 in. (51 mm) air space from the chimney.
- Bend the remaining top tabs to just meet the pipe.

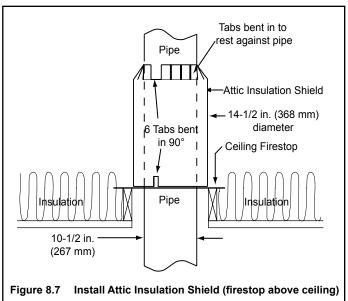
If you wish to make a custom shield or barrier, follow these guidelines:

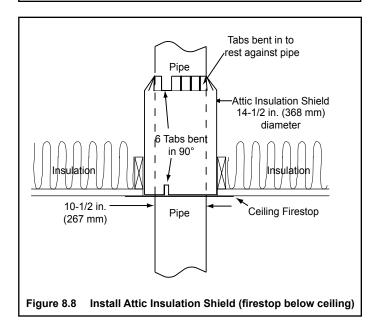
 Metal is preferred, although any material stiff enough to hold back the insulation can be used.

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.







G. Cut out Hole in Roof

- Refer to Figure 8.9.
- 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 14-1/2 in. x 14-1/2 in. (368 mm x 368 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.

H. Complete Installation

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

- · Keep chimney sections from separating or twisting.
- You may secure straight chimney sections at the joints with screws no longer than 1/2 in. (13 mm).

The following steps should be skipped if using a chase.

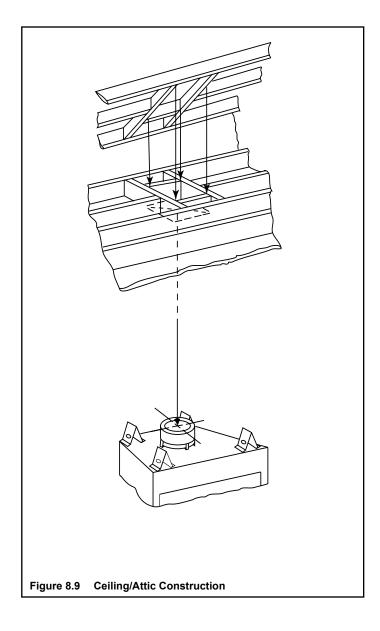
- Install roof flashing appropriate to roof pitch.
- Install round termination cap and storm collar.

I. Install Flashing

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

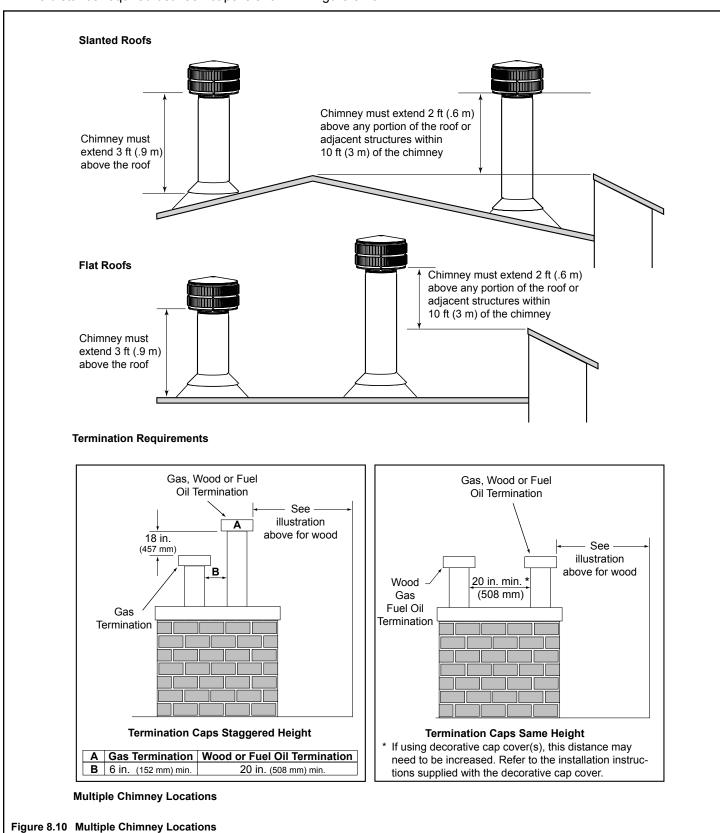
NOTICE: Roofing shingles must be below the flashing plate on the lower side of a sloped roof and over the flashing plate on the sides and top.

- 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.



J. Chimney 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) as shown in Figure 8.10.
- The distance required between caps is shown in Figure 8.10.



9

Chase Installations

A. 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.

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.

A chase 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 at each floor of the chase or every 10 ft (3.05 m) 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 9.1. 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 sheet rocked and taped (or the use of an equivalent method) for maximum air tightness.

Round Termination Cap Metal Chase Top Ceiling Firestop False Ceiling Attic Insulation Tabs Shield Insulation in the Ceiling outside walls Firestop of the chase M Insulation Insulation False Ceiling False Ceiling Chimney Figure 9.1 Chase Assembly

Gas line holes and other openings should be caulked with high temperature caulk or stuffed with unfaced fiberglass insulation. If the fireplace is being installed on a cement slab, we recommend that in cold climates, a sheet of plywood or other raised platform be placed underneath to prevent conducting cold up into the room.

Three examples of chase applications are shown in Figure 9.2.

1. Fireplace and chimney enclosed in an exterior chase.
2. Chimney offset through exterior wall and enclosed in chase.
3. Chase constructed on roof.

Note: In cooler climates, all chase walls should be insulated.

1 2 3

Figure 9.2 Chase Constructions

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. Restricting air flow around chimney may cause fire.

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.

B. Install Fireplace & Chimney

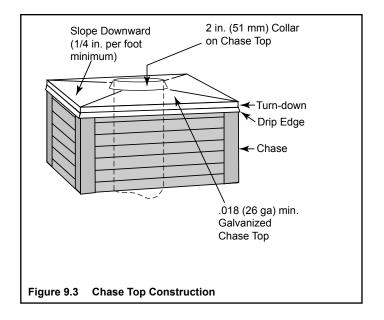
Install as per Sections 7 and 8.

C. Install Chase Top

- You MUST use a chase top in a chase installation. Chase tops are available from your Heatilator 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.
- Refer to Figure 9.3.



D. Install Termination Cap

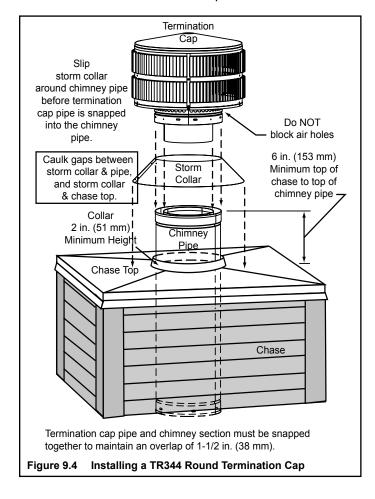
Install the chimney sections up through the chase enclosure.

Refer to termination cap instructions.

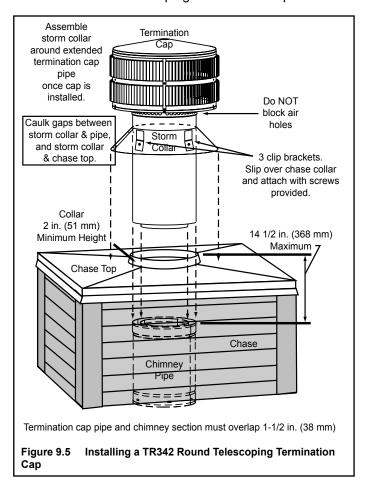
WARNING! Risk of Fire! The minimum overlap of cap to pipe (as shown in the following illustrations) MUST be met or chimney may separate from cap. Separation allows sparks, heat and embers to escape.

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

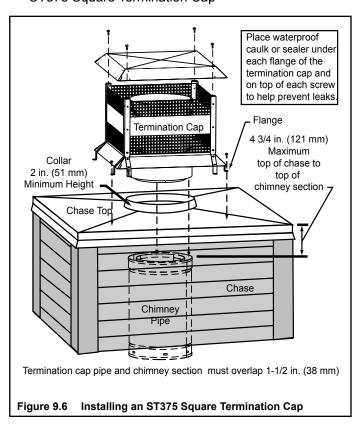
TR344 Round Termination Cap



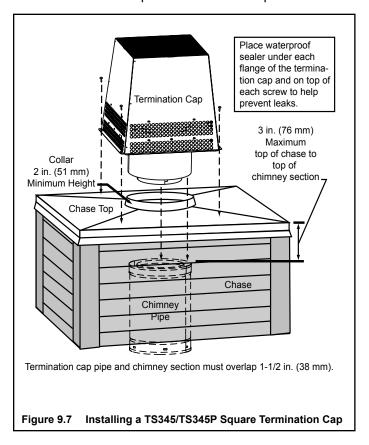
TR342 Round Telescoping Termination Cap



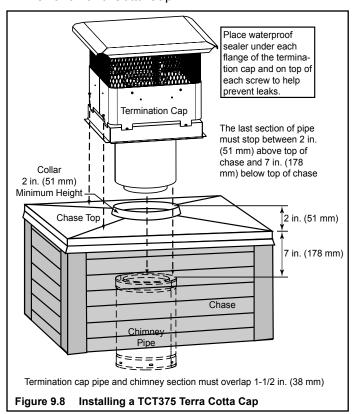
ST375 Square Termination Cap



TS345/TS345P Square Termination Cap



• TCT375 Terra Cotta Cap



10 Shrouds

A. Radiation Shield

- Some shrouds require a radiation shield. Use where specified.
- Radiation shield must be constructed of minimum 26 ga sheet metal.

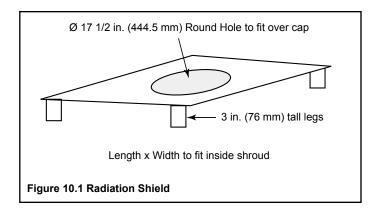
B. Field Constructed Shrouds

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

 Chase top shrouds may be field constructed where permitted by regional building codes.

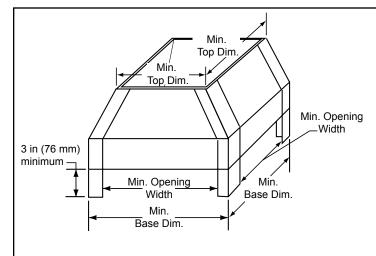
NOTICE: Some regional codes require an agency-Listed shroud. Consult your local building officials.

- Hearth & Home Technologies Inc. supplies UL listed shrouds. See your dealer for details.
- The following field constructed shroud designs have been tested for Hearth Technologies fireplace systems and termination caps.
- The shrouds must be constructed from a minimum .018 in. (26 ga) thick aluminized steel.



• The wire mesh is optional but recommended and must be .018 in. thick minimum, 1/2 in. mesh.

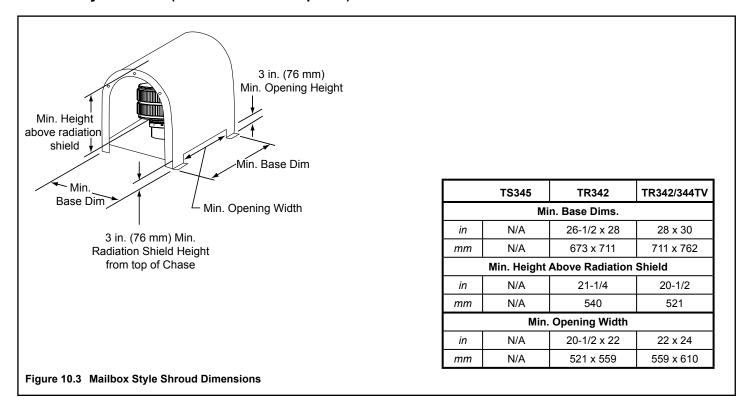
Open Top Shroud (TR342 caps require radiation shield)



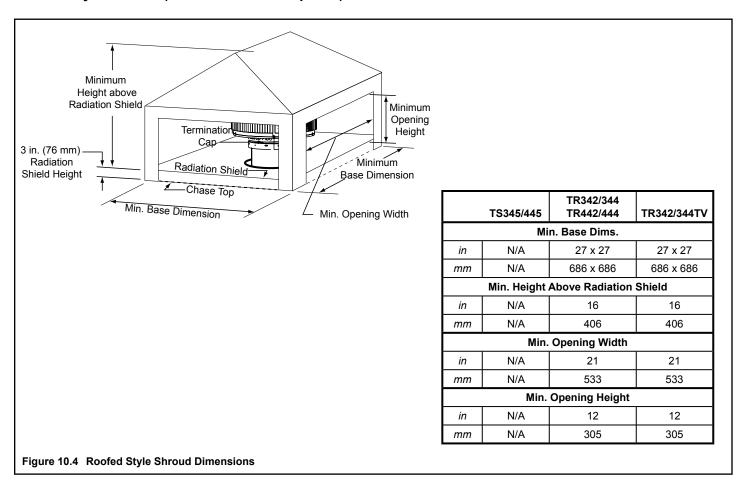
| | TS345 | TR342 | TR342/344TV | | | | |
|-----------------|--------------------|------------------------------|-------------|--|--|--|--|
| Min. Base Dims. | | | | | | | |
| in | 23 x 23 | 28 x 28 | 26 x 26 | | | | |
| mm | 584 x 584 | 711 x 711 | 660 x 660 | | | | |
| | | Radiation Shield Required | | | | | |
| | М | in. Top Dims. | | | | | |
| in | 20 x 20 | 25 x 25 | 23 x 23 | | | | |
| mm | 508 x 508 | 635 x 635 | 584 x 584 | | | | |
| | Min. Opening Width | | | | | | |
| in | 17 x 17 | 22 x 22 | 20 x 20 | | | | |
| mm | 432 x 432 | 559 x 559 | 508 x 508 | | | | |

Figure 10.2 Open Top Shroud Dimensions

Mailbox Style Shroud (radiation shield required)



Roofed Style Shroud (radiation shield required)



Finishing

A. 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

B. Combustible Materials

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

Table 11.1

R = 1/k x inches of thickness

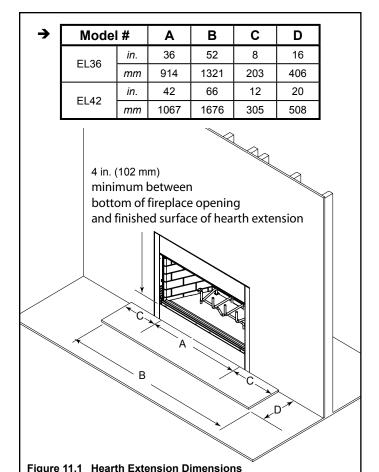
C. Hearth Extension

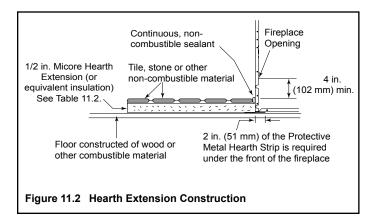
WARNING! Risk of fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips MUST be installed.
- Hearth extensions MUST be installed exactly as specified.
- You MUST use a hearth extension with this fireplace.
- Refer to Figure 11.1 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 11.1 to convert a k value to an R value,
- Refer to Table 11.2 for hearth extension insulation alternatives.

Table 11.2

| Hearth Extension Insulation Alternatives-Total minimum R Value must equal 1.03 | | | | | |
|--|---------------------|---------------------|----------------------------------|--|--|
| Material | k per inch thick | r per inch thick | Minimum thickness required | | |
| Hearth & Home HX3, HX4 (Micore 300™) | 0.49 | 2.06 | 1/2 in. | | |
| USG Micore 160™ | 0.39 | 2.54 | 1/2 in. | | |
| USG Durock™ Cement Board | 1.92 | 0.52 | 2 in. | | |
| Cement Mortor | 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. | | |



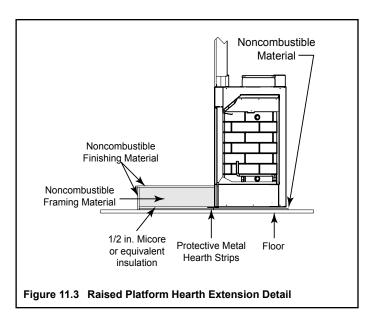


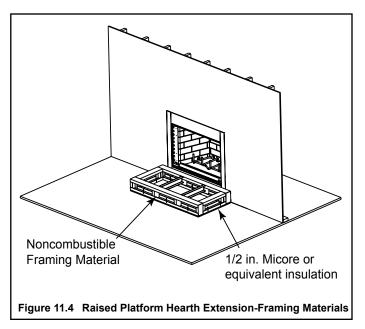
Raised Hearth Extension Framing

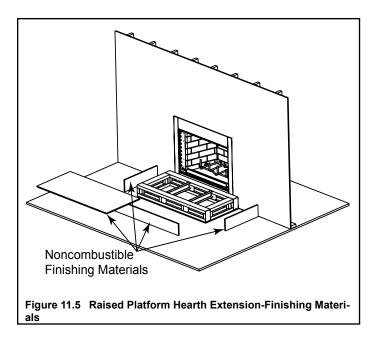
WARNING! Risk of Fire. A raised hearth extension built flush with the fireplace opening (Figure 11.3) or less than 4 in. (102 mm) below the fireplace opening requires the fireplace be installed on a non-combustible surface.

The hearth framing must be constructed of non-combustible materials (Figure 11.2) and placed on 1/2 in. Micore, or equivalent material (Figure 11.4). When creating the platform, allow for the thickness of the non-combustible finishing materials (Figure 11.5).

IMPORTANT! Hearth extension design must be determined before installation of fireplace.

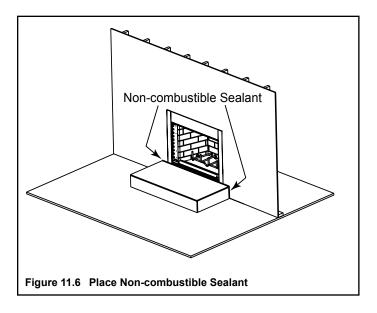






Non-combustible Sealant

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

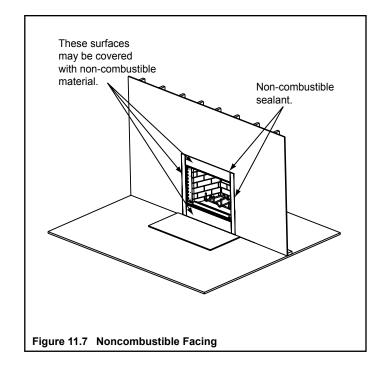


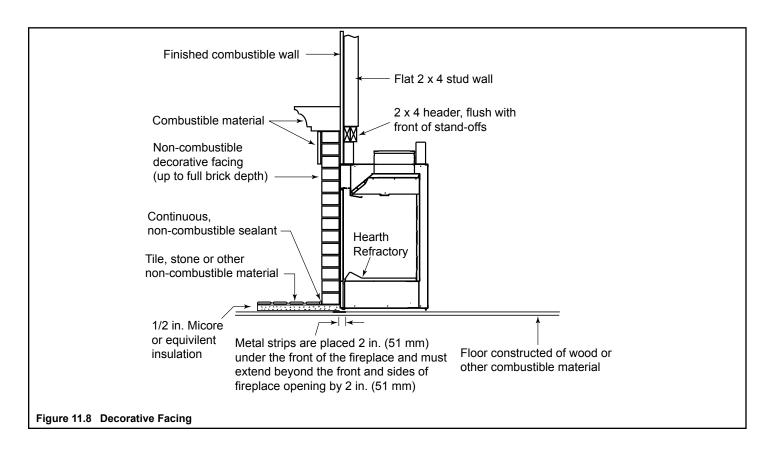
D. Finishing Material

Refer to Sections 11.A. and Sections 11.B. for combustible/noncombustible materials. Refer to Figure 11.7 for noncombustible zone.

WARNING! Risk of Fire! You must maintain clearances.

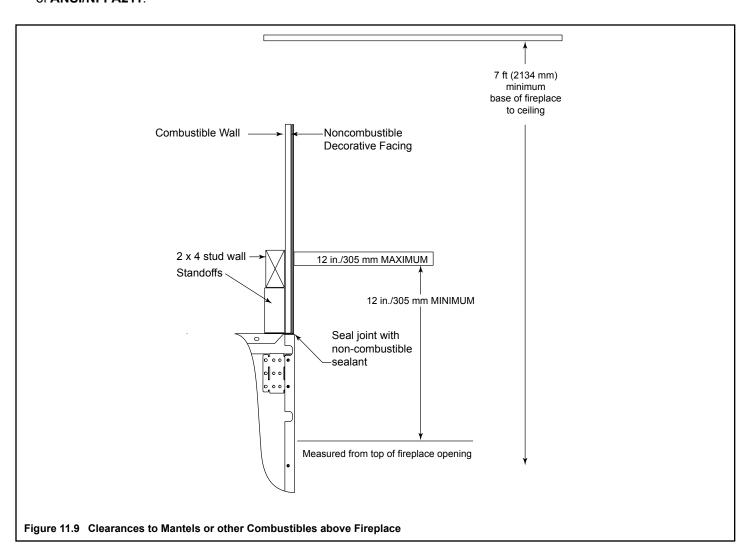
- Use only non-combustible framing material below standoffs.
- Sheetrock, wood or other combustibles must NOT be used as sheathing or facing in the noncombustible zone.
- DO NOT cover metal fireplace front with combustible materials.
- Install combustible materials only to specified clearances on top 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.





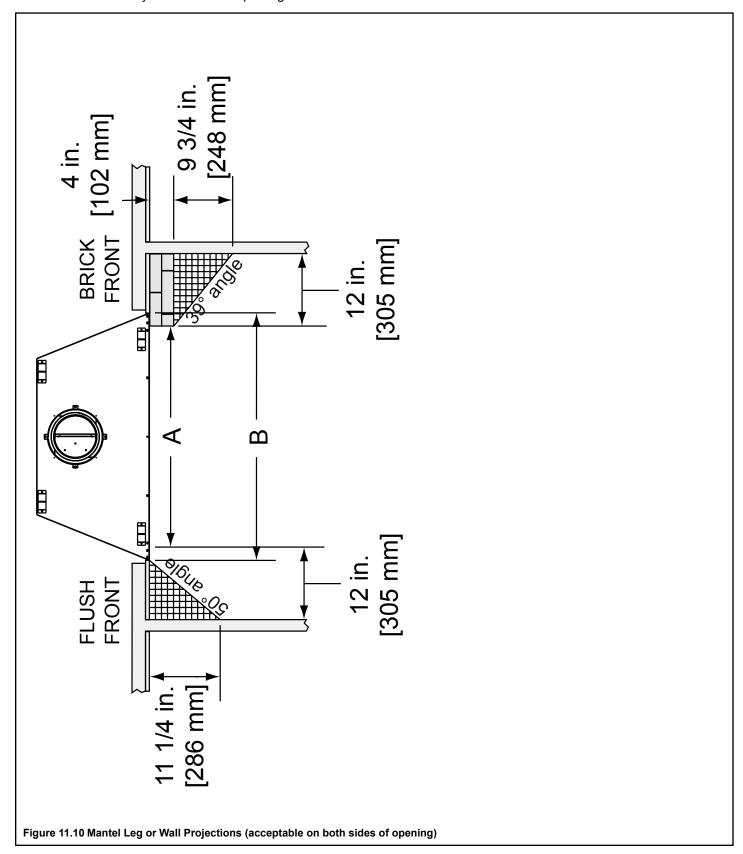
E. Combustible Mantel

- See Figure 11.9.
- A combustible mantel may be positioned no lower than 12 in. (305 mm) above the top of the fireplace opening.
- A combustible mantel may have a maximum depth of 12 in. (305 mm).
- Combustible trim and materials cannot be placed within 6 in. (152 mm) of the fireplace opening (top or sides).
- Combustible materials projecting more than 1-1/2 in. (38 mm) shall not be placed within 12 in. (305 mm) from the top of the fireplace opening.
- Combustible trim must not cover the metal surfaces of the fireplace.
- Mantel clearance is in accordance with Section 7-3.3.3 of ANSI/NFPA211.



F. Sidewalls/Surrounds

- Adjacent combustible sidewalls must be located a minimum of 12 in. (305 mm) from the fireplace opening.
- Combustible or non-combustible mantel legs, surrounds and stub walls may be constructed per Figure 11.10.



42

12 Accessories

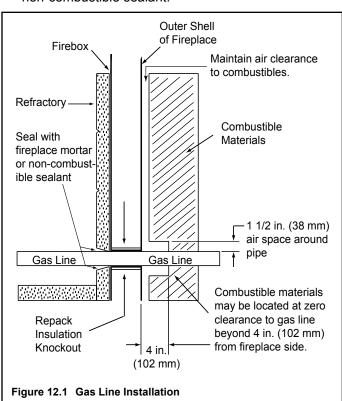
A. Gas Log/Lighter Provision

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

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 insturctions.
- Knockouts are provided on both sides of the fireplace and in refractories for 1/2 in. (13 mm) iron pipe.
- Seal refractory around pipe with fireplace mortar or a non-combustible sealant.



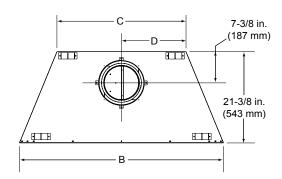
B. Wood Burning Inserts

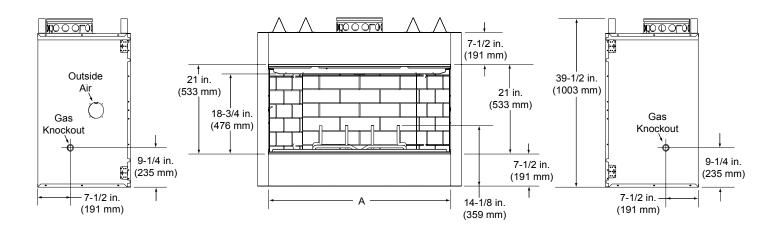
WARNING! Risk of Fire! Improper installation of wood inserts may cause fireplace or chimney system to overheat.

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.

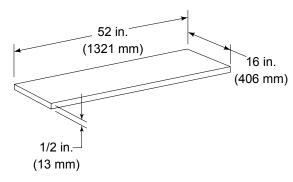
A. Fireplace Dimensions



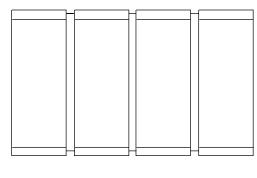


| Mode | Model # | | В | С | D |
|------|---------|------|------|--------|--------|
| EL36 | in. | 36 | 41 | 23-3/4 | 11-7/8 |
| ELSO | mm | 914 | 1041 | 603 | 302 |
| EL42 | in. | 42 | 47 | 29-3/4 | 14-7/8 |
| EL42 | mm | 1067 | 1194 | 756 | 378 |

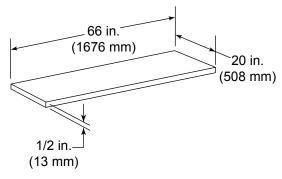
B. Optional Components



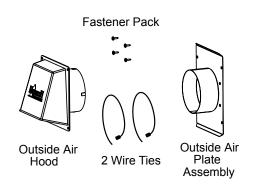
HX3 Hearth Extension



Bifold Glass Doors DM1036, DM1042

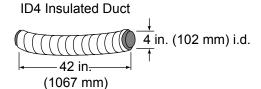


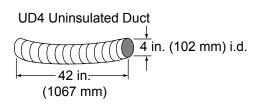
HX4 Hearth Extension



4044-036 Air Kit Parts

AK24 Outside Air Kit



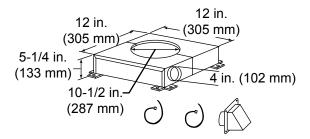


See your Heatilator dealer for a complete listing of optional components.

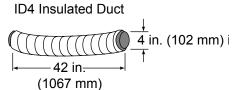
C. Chimney Components

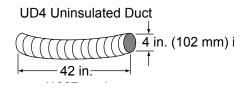
The following pictures show only those chimney components which may be safely used with this fireplace.

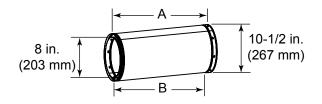
| | 3 h |
|--------|---|
| CAK4A | Chimney Air Kit |
| ID4 | Insulated Duct/Outside Air |
| UD4 | Uninsulated Duct/Outside Air |
| SL306 | Chimney Section - 6 in. (152 mm) long |
| SL312 | Chimney Section - 12 in. (305 mm) long |
| SL318 | Chimney Section - 18 in. (457 mm) long |
| SL324 | Chimney Section - 24 in. (610 mm) long |
| SL336 | Chimney Section - 36 in. (914 mm) long |
| SL348 | Chimney Section - 48 in. (1219 mm) long |
| SL3 | Chimney Stabilizer |
| SL315 | Chimney Offset/Return - 15 deg |
| SL330 | Chimney Offset/Return - 30 deg |
| FS338 | Ceiling Firestop - Straight |
| FS339 | Ceiling Firestop - 15 deg |
| FS340 | Ceiling Firestop - 30 deg |
| AS8 | SL300 Straight Attic Insulation Shield, 24 in. (610 mm) |
| JB877 | Chimney Joint Band |
| CB876 | Chimney Bracket |
| RF370 | Roof Flashing - Flat to 6/12 Pitch |
| RF371 | Roof Flashing - 6/12 to 12/12 Pitch |
| TR344 | Round Termination Cap |
| TR342 | Round Telescoping Termination Cap |
| ST375 | Square Termination Cap |
| TS345 | Square Termination Cap |
| TS345P | Square Termination Cap - Painted |
| TCT375 | Terra Cotta Termination Cap |
| CT35 | Chase Top |
| 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-3A | Adapter - May be used with the following copper caps |
| | CT-King |
| | CT-Queen |
| | CT-Bishop-I |
| | CT-Bishop-II |
| | CT-Knight-I |
| | CT-Pawn |
| L | |



CAK4A Chimney Air Kit





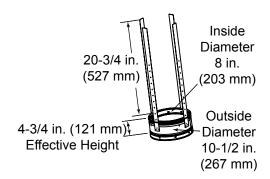


Chimney Sections

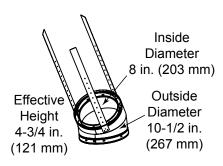
| | Α | | E | 3 |
|-----------|----|------|--------|------|
| Catalog # | in | mm | in | mm |
| SL306 | 6 | 152 | 4-3/4 | 121 |
| SL312 | 12 | 305 | 10-3/4 | 273 |
| SL318 | 18 | 457 | 16-3/4 | 425 |
| SL324 | 24 | 610 | 22-3/4 | 578 |
| SL336 | 36 | 914 | 34-3/4 | 883 |
| SL348 | 48 | 1219 | 46-3/4 | 1187 |

A = Actual Length

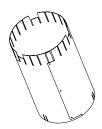
B = Effective Length (length of chimney part after it has been snapped to another)



SL3 Vent Stabilizer

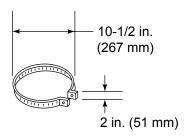


SL315/SL330 Offset/Return

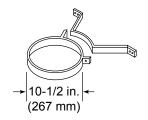


Assembled
Diameter: 14 1/2 in./368 mm
Height: 24 in./610 mm

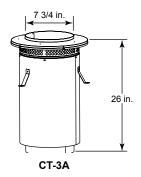
AS8 Straight Attic Insulation Shield

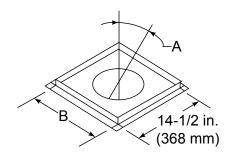


JB877 Chimney Joint Band



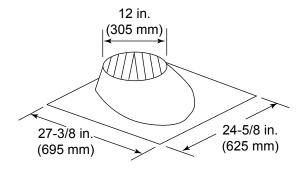
CB876 Chimney Joint Band



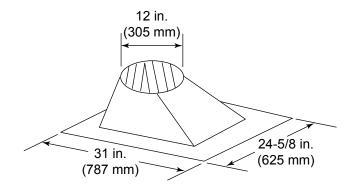


Ceiling Firestop

| Catalog # | Α | E | 3 |
|-----------|---------|------------|--------|
| FS338 | 0-deg. | 14-1/2 in. | 368 mm |
| FS339 | 15-deg. | 18-3/8 in. | 467 mm |
| FS340 | 30-deg. | 23 in. | 584 mm |



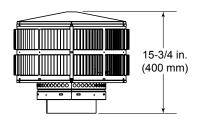
RF370 Roof Flashing



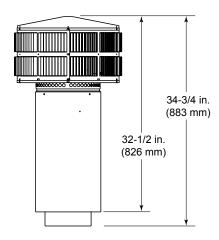
RF371 Roof Flashing



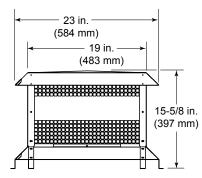
Heatilator • EL36/EL42 • 4044-132 • Rev U • 08/08



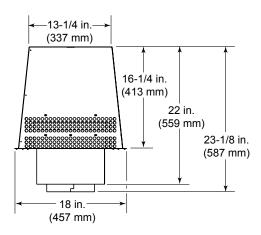
TR344 Round Termination Cap



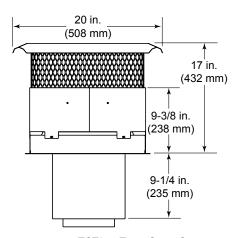
TR342 Round Telescoping Termination Cap



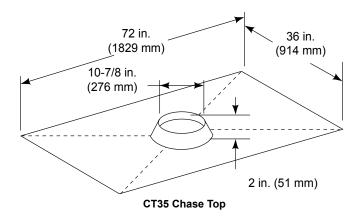
ST375 Square Termination Cap

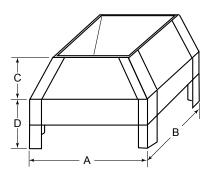


TS345/TS345P Square Termination Cap



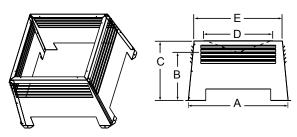
TCT375 Terra Cotta Cap





LDS33/LDS46 Decorative Shroud

| | - | 4 | E | 3 | (|) | [|) |
|-----------|-----|------|-----|------|-------|-----|-----|-----|
| Catalog # | in. | mm | in. | mm | in. | mm | in. | mm |
| LDS33 | 36 | 914 | 36 | 914 | 8-1/2 | 216 | 11 | 279 |
| LDS46 | 48 | 1219 | 72 | 1829 | 8-1/2 | 216 | 11 | 279 |



LDS-BV Decorative Shroud

| Catalog # | | Α | В | С | D | E |
|-----------|-----|-----|--------|--------|-----|-----|
| LDS-BV | in. | 26 | 12-1/2 | 15-1/2 | 22 | 23 |
| LD3-BV | mm | 660 | 318 | 394 | 533 | 584 |

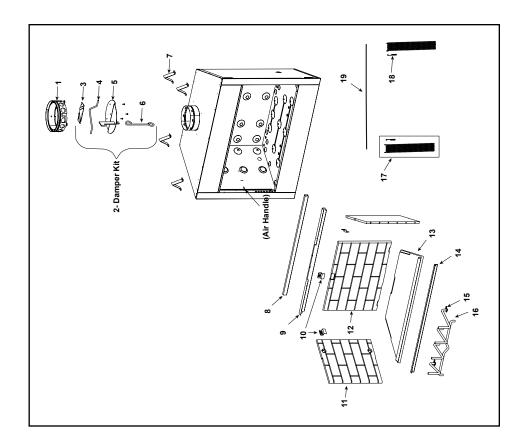
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Service Parts Diagram ELEMENT Woodburning Fireplace The first name in fireplaces Service Parts

Beginning Manufacturing Date: January, 2005 Ending Manufacturing Date: Active

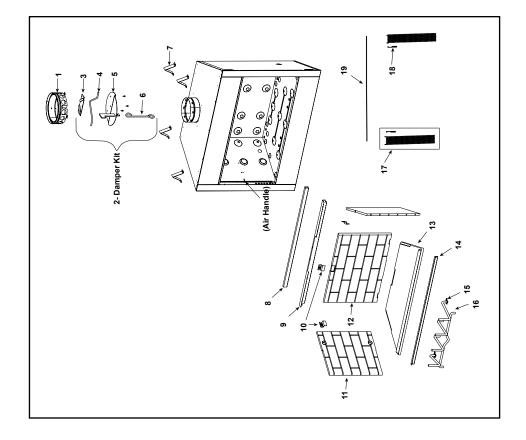
| Sto at D | |
|--|-----------------|
| | GTGUILLY TO AG |
| rvice or replacement mber. All parts listed | OTHER PROPERTY. |
| IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer. | |
| IMPO parts in this | İ |

| ITEM | DESCRIPTION | COMMENTS | PART NUMBER | - |
|------|--|-----------|-------------|----------|
| _ | Starter Section Assembly | | 22069B | > |
| 2 | Damper Kit | | 4044-029 | \ |
| 3 | Damper Weight | | 19785A | z |
| 4 | Damper Rod | | 28900 | z |
| 2 | Damper Blade Assembly | | 4044-030 | z |
| 9 | Damper Control | | 4044-152 | z |
| 7 | Top Standoff | Qty 4 req | 4044-111 | z |
| ∞ | Door Track (used for upper) | | 15425 | z |
| စ | Smoke Shield | | 4044-131 | z |
| 9 | Refractory Retainer | Qty 3 req | 11847 | z |
| = | Side Refractory | Qty 2 req | 4044-114 | z |
| 12 | Back Refractory | | 4044-130 | z |
| 13 | Hearth Refractory | | 4044-129 | z |
| 4 | Hearth Retainer | | 4044-128 | z |
| 15 | Grate Retainer | Qty 2 req | 17365D | z |
| 16 | Grate | | GR41 | z |
| 17 | Firescreen Assembly | Qty 2 req | 4044-028 | z |
| 18 | Firescreen Rod | | 4044-175 | z |
| 19 | Firescreen Handle | | 4021-150 | z |
| | | | | |
| | Door Pivot Clip | Qty 2 req | 31527 | z |
| | Extended Smoke Shield Kit | Qty 2 req | SRV4044-038 | z |
| | Fastener Pack | | 12010B | z |
| | Smoke Shield Kit Installation Instructions | | 4044-165 | Z |
| | Hair Pin Clip | | 101025/24 | Υ |
| | Nailing Flange | Qty 4 req | 4044-161 | z |
| | Smoke Baffle | Qty 2 req | 4044-116 | z |
| | Strip Protector | Qty 2 req | 18320 | z |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | Installation Instructions and Owner's Manual | | 4044-132 | z |
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Beginning Manufacturing Date: January, 2005 Ending Manufacturing Date: Active

| ITEM | DESCRIPTION | COMMENTS | PART NUMBER |
|------|--|-----------|-------------|
| _ | Starter Section Assembly | | 22069B |
| 2 | Damper Kit | | 4044-029 |
| 3 | Damper Weight | | 19785A |
| 4 | Damper Rod | | 28900 |
| 2 | Damper Blade Assembly | | 4044-030 |
| 9 | Damper Control | | 4044-152 |
| 7 | Top Standoff | Qty 4 req | 4044-111 |
| | Door Track (used for upper) | | 15427 |
| 6 | Smoke Shield | | 4044-120 |
| 10 | Refractory Retainer | qty 3 req | 11847 |
| 11 | Side Refractory | Qty 2 req | 4044-114 |
| 12 | Back Refractory | | 4044-113 |
| 13 | Hearth Refractory | | 4044-112 |
| 41 | Hearth Retainer | | 4044-109 |
| 15 | Grate Retainer | Oty 2 req | 17365D |
| 16 | Grate | | GR40 |
| 17 | Firescreen Assembly | | 4044-027 |
| 18 | Firescreen Rod | | 4044-172 |
| 19 | Firescreen Handle | 1 ea | 4021-150 |
| | | | |
| | Door Pivot Clip | Otv 2 red | 31527 |
| | Extended Smoke Shield Kit | Oty 2 req | SRV4044-037 |
| | Fastener Pack | | 12010B |
| | Smoke Shield Kit Installation Instructions | | 4044-165 |
| | Nailing Flange | Qty 4 req | 4044-161 |
| | Smoke Baffle | Qty 2 req | 4044-116 |
| | Strip Protector | | 18320 |
| | Hair Pin Clip | | 101025/24 |
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Hearth & Home Technologies Inc. 1915 W. Saunders Street Mt. Pleasant, Iowa 52641 www.heatilator.com

Please contact your Heatilator dealer with any questions or concerns.

For the number of your nearest Heatilator dealer, please visit www.heatilator.com.

| - NOTES - |
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CAUTION



DO NOT DISCARD THIS MANUAL

Important operating • and maintenance instructions included.

and follow these instructions for safe installation and operation.

Read, understand • Leave this manual with party responsible for use and operation.

This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.