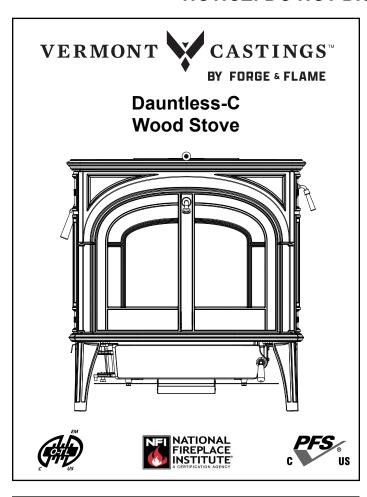
Installation Manual

Installation & Appliance Set-Up

INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

NOTICE: DO NOT DISCARD THIS MANUAL



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.







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 over fire If appliance or chimney connector glows, you are over firing. Over firing will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.



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.

NOTE

To obtain a French translation of this manual, please contact your dealer or visit www.forgenflame.com

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez www. forgenflame.com



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, <u>could</u> result in minor or moderate injury.
- **NOTICE:** Indicates practices which may cause damage to the appliance or to property.

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Product Listing and Important Safety Information

A. Appliance Certification

MODEL:	Dauntless-C Wood Stove	
LABORATORY:	PFS-TECO, OMNI-Test Laboratories Inc.	
REPORT NO.	24-291, 0061WS104S	
TYPE:	Solid Fuel Type Room Heaters	
STANDARD(s):	ASTM E2515, ASTM E2780, Method 28R, UL 1482-2022, ULC S627 and CAN/CSA B415.1	

B. BTU & Efficiency Specifications

EPA Report #:	405-25
EPA Certified Emissions:	1.7 g/hr
*LHV Tested Efficiency:	81%
**HHV Tested Efficiency:	75%
***EPA BTU Output:	13,600 - 21,400
****Peak BTU/Hour Output:	36,900
Vent Size:	6 Inch (152 mm)
Firebox Size:	1.8 cu. ft.
Outside Air Size:	3 Inch
Recommended Length:	16 Inch
Max. Wood Length:	18 Inch
Fuel Orientation:	East, West
Fuel	Seasoned Cordwood (20% moisture or less)

*Weighted average LHV efficiency using Douglas Fir dimensional lumber and data collected during EPA emissions test.

**Weighted average HHV efficiency using Douglas Fir dimensional lumber and data collected during EPA emissions test.

***Efficiencies are based on test results calculated using B415; these calculated efficiencies are then used to calculate output BTU's.

****A peak BTU out of the appliance calculated using the maximum first hour burn rate from the High EPA Test and the BTU content of cord wood (8600) times the efficiency.

The Dauntless-C Wood Appliance meets the U.S. Environmental Protection Agency Certified to comply with the 2020 particulate emission standards.



This wood appliance needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood appliance in a manner inconsistent with operating instructions in this manual.

C. Mobile Home Approved (USA ONLY)

- This appliance is approved for mobile home installations in the USA when not installed in a sleeping room and when an outside combustion air inlet is installed.
- The structural integrity of the mobile home floor, ceiling, and walls must be maintained.
- The unit must be bolted to the floor. This can be done using an appropriate fastener for the application.
- The appliance must be properly grounded to the frame of the mobile home with #8 copper ground wire, and chimney must be listed to UL103 HT or a listed UL-1777 full length six" (152mm) diameter liner must be used.
- Mobile Home Brackets must be installed in a mobile home installation, supplied with stove.

D. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.



WARNING



Fire Risk.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- · Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with it).
- Do NOT Over fire If appliance or chimney connector glows, you are over firing.

Any such action that may cause a fire hazard.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the UL1482-11, UL 737-11, (UM) 84-HUD and NPFA211 in the U.S.A. and the ULC S627-00 and CAN/CSA-B365 Installation Codes in Canada. NOT APPROVED FOR MOBILE HOME INSTALLATIONS IN CANADA!

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.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

Hearth & Home Technologies WILL NOT warranty appliances that exhibit evidence of over-firing. Evidence of over-firing includes, but is not limited to:

- · Warped Damper
- · Deteriorated refractory
- · Deteriorated interior components

E. Non-Combustible Materials

Material which will not ignite and burn, composed of any combination of the following:

Steel - Plaster
Brick - Iron
Concrete - Tile
Glass - Slate

Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace of 750° C.

F. Combustible Materials

Material 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 non-plastered.

G. California



WARNING

This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is know to the State of California to cause birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

A. Design and Installation Considerations

Consideration must be given to:

- Safety
- Convenience
- · Traffic flow
- · Chimney and chimney connector required

It's a smart idea to plan your installation on paper first, using exact measurements for clearances, floor protection, and appliance placement before starting any work. If you're not connecting to an existing chimney, be sure to locate the stove where there's a clear, unobstructed path for a factory-built, listed chimney to pass safely through the ceiling and roof.

We recommend that a qualified building inspector and your insurance company representative review your plans before and after installation.

If this appliance is in an area where children may be near it is recommended that you purchase a decorative barrier to go in front of the appliance. Remember to always keep children away while it is operating and do not let anyone operate this appliance unless they are familiar with these operating instructions.



CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.



WARNING



Asphyxiation Risk

- DO NOT CONNECT THIS APPLIANCE TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

May allow flue gases to enter the house.

B. Fire Safety

To provide reasonable fire safety, the following should be given serious consideration:

 Install at least one smoke detector on each floor of your home to ensure your safety. They should be located away from the heating appliance and close to the sleeping areas. Follow the smoke detector manufacturer's placement and installation instructions, and be sure to maintain regularly.

- 2. A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.
- 3. A CO detector should be installed in the room with the appliance.
- 4. A practiced evacuation plan, consisting of at least two escape routes.
- 5. A plan to deal with a chimney fire as follows:

In the event of a chimney fire:

- a. Evacuate the house immediately
- b. Notify fire department.

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

- · Inadequate draft due to environmental conditions
- · Down drafts
- · Tight sealing construction of the structure
- · Mechanical exhausting devices
- · Over drafting caused by excessive chimney heights
- Ideal performance is a chimney height of 16 feet (4.88m) measured from the base of the appliance.

C. Negative Pressure



WARNING



Asphyxiation Risk

- Negative pressure can cause spillage of combustion fumes, soot and carbon monoxide.
- · Appliance needs to draft properly for safety.

Negative pressure results from the imbalance of air available for the appliance 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 appliances 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 outside air to the stove with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for all combustion appliances and exhaust equipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the appliance
- Avoid installing the appliance 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



WARNING



Fire Risk.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with appliance).
- · Do NOT Over fire If appliance or chimney connector glows, you are over firing.

Any such action that may cause a fire hazard.

D. Tools And Supplies Needed

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

- · Reciprocating saw
- · Framing material

Pliers

- · High temp caulking material
- Hammer
- Gloves
- Phillips screwdriver
- Framing square
- Flat blade screwdriver
- · Electric drill and bits

- Plumb line
- Safety glasses

Level

- Tape measure
- · Misc. screws and nails
- 1/2-3/4 in. length, #6 or #8 self-drilling screws

E. Inspect Appliance and Components

- Remove appliance and components from packaging and inspect for damage.
- 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.



WARNING



Fire Risk

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.

F. Install Checklist

ATTENTION INSTALLER: Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjunction with, n	ot instead	l of, the instructions contained in this installation manual
Customer:		
Date Installed:		
Lot/Address:		
Location of Appliance:		
Installer:		
Dealer/ Distributor Phone #:		
Serial #:		
Model:		
WARNING! Risk of Fire or Explosion! Failure to install appliance acc		
Appliance Install	YES	IF NO, WHY?
Verified clearance to combustibles.		,
Appliance is leveled and connector is secured to appliance.		
Hearth extension size/height decided.		
Outside Air Installed.		
Floor protection requirements have been met.		
If appliance is connected to a masonry chimney, it should be cleaned and inspected by a professional. If installed to a factory built metal chimney, the chimney must be installed according to the manufacturer's instructions and clearances.		
Chimney		
Chimney configuration complies with diagrams.		
Chimney installed, locked and secured in place with proper clearance.		
Chimney meets recommended height requirements (Minimum 16 Feet).		
Roof flashing installed and sealed.		
Terminations installed and sealed.		
Clearances		
Combustible materials not installed on non-combustible areas.		
Verified all clearances meet installation manual requirements.		
Mantels and wall projections comply with installation manual requirements.		
Protective hearth strips and hearth extensions installed per manual requirements.		
Appliance Setup		
All packaging and protective materials removed.		
Firebrick/Refractory, baffle and ceramic blanket (if applicable) installed correctly		
All labels have been removed from the door.		
All packaging materials are removed from inside/under the appliance.		
Manual bag and all of its contents are removed from inside/under the appliance and given to the party responsible for use and operation.		
 Hearth & Home Technologies recommends the following: Photographing the installation and copying this checklist for your file. That this checklist remain visible at all times on the appliance until the interest of the comments. 	nstallatio	n is complete.
Comments: Further description of the issues, who is responsible (Installer/Build	ler/Other	Trades, etc.) and corrective action needed:
Comments communicated to party responsible	by	/ on

(Installer)

(Builder/Gen. Contractor)

(Date)

A. Appliance Dimensions

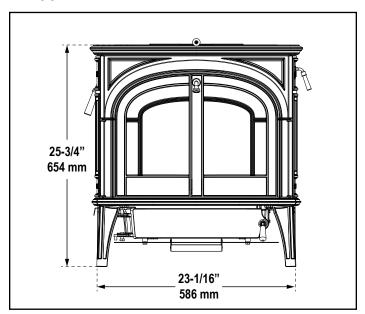


Figure 3.1 - Front View

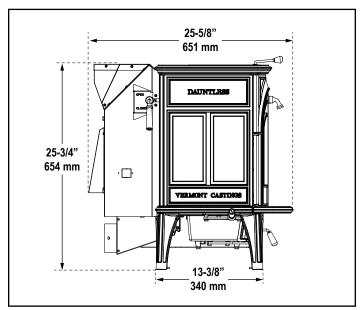


Figure 3.2 - Side View - Top Vent

NOTE: Flue Collar size is 6" (152mm) diameter (ID)

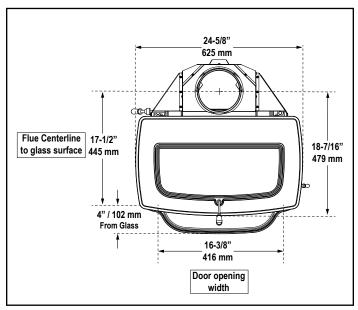


Figure 3.3 - Top View

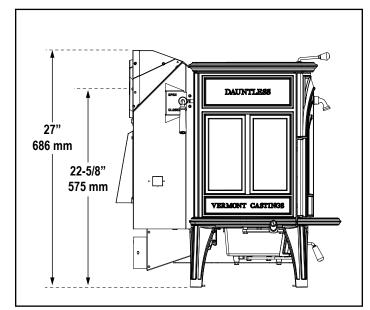


Figure 3.4 - Side View - Rear Vent

B. Hearth Protection Requirements



CAUTION

Hearth and Home Technologies does not recommend adhesive based vinyl flooring due to thermal expansion. Floating-style flooring (LVP - luxury vinyl plank or LVT – luxury vinyl tile) can be used, but it will reach temperatures up to 110 °F in a room with ambient temperature of 70 °F. Consult flooring specifications to ensure compatibility.

HHT recommends wood stoves and inserts have 57 inches of alternative flooring in front of the stove before using LVP/LVT regardless if they sit flush on the floor or are elevated on a raised hearth.

For all other flooring, continue to follow clearance to combustible requirements in the installation manual.

NOTICE: Clearances that do not meet the minimum guidelines could result in damage or buckling to the vinyl flooring and is done at the installer's or homeowner's risk.

FLOOR PROTECTION: It is necessary to install a Type I floor protector. (Spark & Ember protection ONLY)

Floor protector must be non-combustible material extending under the appliance to a minimum of 16" (406 mm) in front of glass, and 8" (203 mm) to both sides of the fuel loading door. Open the door and measure 8" (203 mm) from the side edge of the opening in the face of the appliance. *See exception.

In Canada, similar floor protection must be provided 18" (457 mm) in front and 8" (203 mm) from the sides and rear of the appliance, Figure 3.6

*EXCEPTION: Non-combustible floor protections must extend beneath the flue pipe when installed with horizontal venting and extend 2" (51 mm) beyond each side, Figure 3.6.



WARNING



Fire Risk

Hearth pads must be installed exactly as specified. High temperatures or hot embers may ignite concealed combustibles.

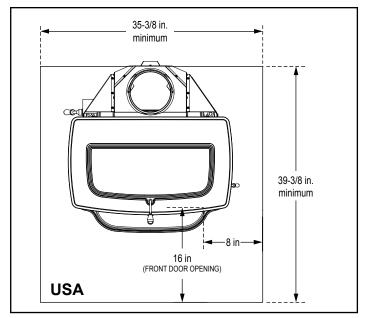


Figure 3.5

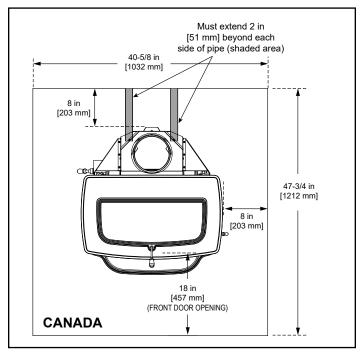


Figure 3.6

C. Clearances to Combustibles

Minimum Clearances to Combustible Materials Note: A, C and F Dimensions are to the center of the flue collar								
	Installation: Full Vertical							
	Α	В	С	D	E	F	G	H*
Single Wall Pipe	18"	14"	26-1/2"	14"	15"	19-1/2"	57-1/2"	18"
Double Wall Pipe	16"	12"	24-1/2"	12"	7"	12"	57-1/2"	18"
	Installation: 90 Degree Elbow off Top of Appliance through back wall							
Single Wall Pipe	16"	12"	24-1/2"	12"	15"	19-1/2"	57-1/2"	18"
Installation: Horizontal Through the Wall								
Single Wall Pipe		10"	26-1/2"	14"				
Alcove, Double Wall Pipe		12"		18"			38"	

For Factory Alcove: 6" diameter listed Double wall air insulated connector pipe with UL103 HT listed factory built Class A Chimney or Masonry chimney. Maximum depth Alcove shall be no more than 48" (1219 mm) and the referenced Alcove clearances. Canada must comply with CAN/ULC-S269 M87 for the 650° factory built chimney.

NOTE: Double wall pipe clearances are for US installations **ONLY**. Canadian installations must conform with local code. In the absence of local codes you must comply with the ULC S627-00 and CAN/CSA-B365.

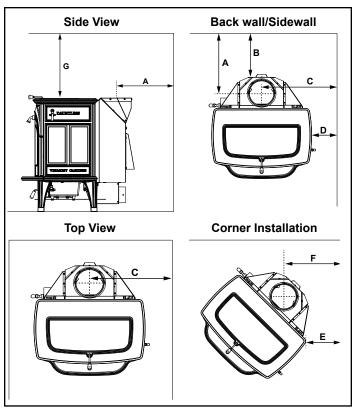
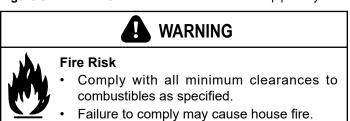


Figure 3.7 - Alcove Clearances are for double wall pipe only.



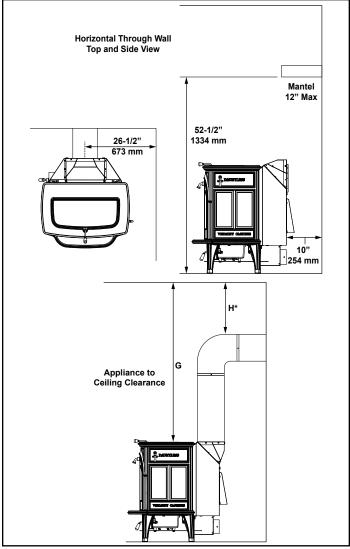


Figure 3.8

^{*}Follow pipe manufacturers clearances as required.

D. Fireplace Installation

Note: If mantle clearance specifications are not listed or to reduce mantle clearances you can follow NFPA211 regulations to assure safe installation of this product. Please consult with your local building inspector before attempting any clearance reductions.

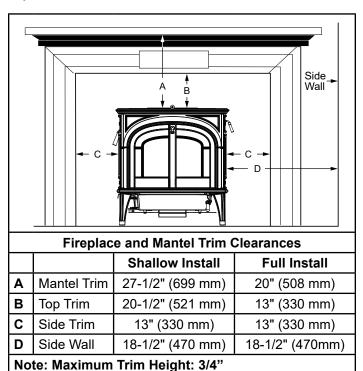


Figure 3.9 - Maintain clearances to combustible components of the mantel piece.

Shallow Installation: If the unit is not installed completely within the fireplace:

The minimum clearance to a mantle is shown in Figure 3.10.

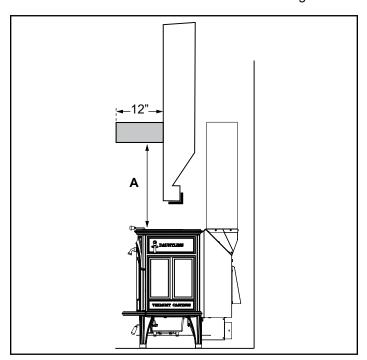


Figure 3.10

Full Installation: If the unit is completely installed in the firebox (unit face flush or behind fireplace front) the minimum clearance to the mantle is shown in Figure 3.11.

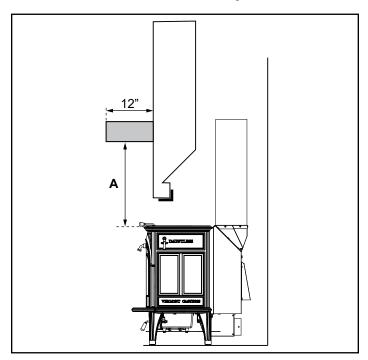


Figure 3.11

Disclaimers:

- Extended floor protection may be required for shallow installs, follow floor protection requirements.
- Full insertion installation may not allow use of the top load door depending on the fireplace height.

E. Locating Your Appliance & Chimney

Location of the appliance and chimney will affect performance. As shown in Figure 3.12 the chimney should:

- Install through the warm space 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 affects of wind turbulence and down drafts.
- Consider the appliance location in order to avoid floor and ceiling attic joists and rafters.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.

Your local dealer is the expert in your geographic area and can usually make suggestions or discover solutions that will easily correct your flue problem.

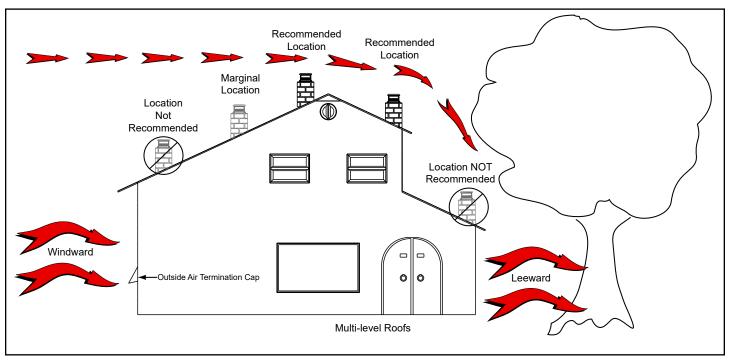


Figure 3.12

F. Chimney Termination Requirements

Follow manufacturer's instructions for clearance, securing flashing and terminating the chimney, Figures 3.13 & 3.14.

- Must have an approved and Listed cap
- Must not be located where it will become plugged by snow or other material
- Must terminate at least 3 feet (91 cm) above the roof and at least 2 feet (61 cm) above any portion of the roof within 10 feet (305 cm).
- · Must be located away from trees or other structures

NOTICE:

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

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

- Frequently open doors
- · Central heat outlets or returns

G. Chimney Location (2-10-3 Rule)

These are safety requirements and are not meant to assure proper flue draft.

This appliance is made with a 6" (152 mm) diameter chimney connector as the flue collar on the appliance.

- · Changing the diameter of the chimney can affect draft and cause poor performance.
- It is not recommended to use offsets and elbows at altitudes above 4000 feet above sea level and or when there are other factors that affect flue draft.

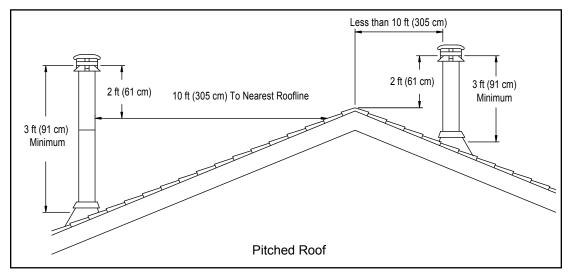


Figure 3.13

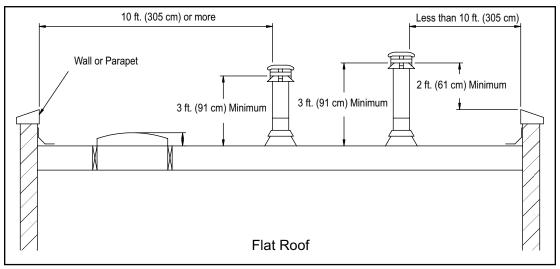


Figure 3.14

Chimney

Chimneys & Venting

A. Venting & Draft Management

A stove is part of a complete system, which includes the chimney, the operator, the fuel, and the home. The performance of the stove depends on how well all parts of the system are matched. When the stove, chimney, and other components work together effectively, the system performs optimally.

Wood stove operation relies on natural (unforced) draft, which occurs when the exhaust is hotter and lighter than the outdoor air at the top of the chimney. The larger the temperature difference, the stronger the draft. As hot gases rise through the chimney, they create suction, or "draw," which pulls air into the stove to support combustion. A weak draft is indicated by a slow, lazy fire with the air inlets fully open, while a strong draft results in a brisk fire supported solely by air entering the stove through the normal inlets.

Stove air inlets are passive—they regulate how much air can enter the stove but do not actively move air into it.

The design of your installation—whether using a steel or masonry chimney, whether it's inside or outside the house, and whether it matches the stove's outlet size—will affect how quickly the system warms up and operates effectively. With an airtight stove, which limits air entry into the firebox, it's crucial that the chimney keeps the exhaust warm all the way to the outdoors. Some chimneys perform this better than others.

Draft, Chimney Height & Performance: This appliance was tested with a 15-foot chimney using a combination of single-wall chimney connector and insulated Class A pipe. The stove requires a draft between 0.03 and 0.065 inches of H2O. Draft measurements should be taken with an active fire, the damper closed, and the air control set to maximum. If the draft is below 0.03 inches of H2O, the stove may have difficulty operating with the damper closed, and there may be back-puffing into the room at lower burn settings.

If the chimney draft is too low, you may need to increase vertical height or reduce the number of elbows/tees in the system. The venting system should not exceed 180° of turns (for example, two 90° elbows, four 45° elbows, or any combination). Two 45° elbows are preferred over a single 90° elbow, as they create less draft reduction and are suitable for installations with low draft.

For tall chimney systems—particularly internal Class A systems—the draft may exceed 0.65 inches of H2O, leading to short burn times, difficulty controlling the burn rate, and the risk of overfiring. While stack dampers were once recommended in these cases, manufacturers are no longer allowed to specify them for EPA-certified models. It's essential to review and test the chimney system for draft prior to installing the stove.

Masonry Chimney: Masonry chimneys, while traditional, may not perform well with an airtight stove. Masonry acts as a heat sink, absorbing a significant amount of heat and potentially cooling the chimney gases enough to reduce draft. Larger chimneys take longer to warm up, and outdoor masonry chimneys, especially oversized ones, are particularly difficult to heat and maintain a strong draft.

Steel Chimney: Factory-made steel chimneys often feature an insulation layer around the inner flue, which helps the chimney warm up faster than masonry. Although steel chimneys lack the aesthetic appeal of masonry, they offer better performance by retaining heat and maintaining a stronger draft.

Indoor/Outdoor Location: To keep the smoke warm and maintain optimal draft, it's best to locate the chimney inside the house. This allows the house to act as insulation for the flue and helps retain heat within the system. An indoor chimney will not lose heat to the outdoors, meaning it requires less energy from the stove to warm up and stay warm.

Single Venting: Each airtight stove requires its own dedicated flue. Venting an airtight stove into a flue that also serves an open fireplace or a less efficient stove can weaken the draft. This happens because the draft may pull air through these other channels, similar to a vacuum cleaner with a hole in the hose. In extreme cases, this can cause a negative draft reversal, which is a dangerous condition.

Flue Sizing: The chimney flue size should match the stove's flue outlet. An oversized flue can be detrimental. For example, venting a stove with a 6-inch flue collar (28 square inches) into a 10x10-inch flue can slow the gases by up to one-third, allowing them to cool more rapidly, which weakens the draft. If the oversized flue is outdoors, it will also absorb heat from the exhaust, cooling it further and reducing draft strength.

Masonry flues, especially those serving fireplaces, are often oversized for stoves. They can take a long time to heat up, leading to poor performance. The best solution for an oversized flue is to install an insulated steel chimney liner of the same diameter as the stove's flue outlet. This keeps the exhaust warm and enhances draft. A non-insulated liner is a second option; while it retains the exhaust's original size, it takes longer to warm up since the air around the liner also needs to heat up.

B. Venting Components

Chimney Connector: It is also known as flue pipe or appliance pipe. The chimney connector joins the appliance to the chimney. It must be a 6" (152 mm) minimum diameter 24 gauge mild steel black or 26 gauge blued steel, or an approved air-insulated double wall venting pipe.

Thimble: A manufactured or site-constructed device installed in combustible walls through which the chimney connector passes to the chimney. It is intended to keep the walls from igniting. Site constructed thimbles must meet NFPA 211 Standards. Prefabricated must be suitable for use with selected chimney and meet UL103 Type HT Standards. Follow instructions provided by the manufacturer for manufactured thimbles for masonry chimney and prefabricated chimneys.

Chimney: The chimney can be new or existing, masonry or prefabricated and must meet the following minimum requirements specified in Section 4B.

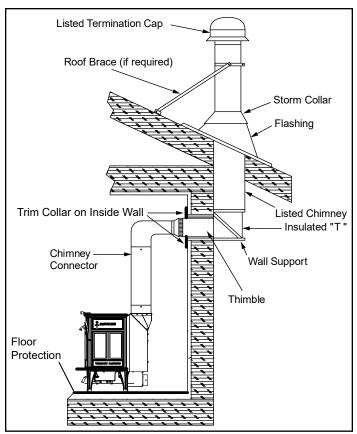


Figure 4.1 - Prefabricated Exterior Chimney

C. Chimney Systems

Prefabricated Metal Chimney:

- Must be minimum 6" (152 mm) diameter (ID) high temperature chimney listed to UL 103 HT (2100 °F) or ULC S629M.
- Must use components required by the manufacturer for installation.
- Must maintain clearances required by the manufacturer for installation.
- Refer to manufacturers instructions for installation.

NOTE: In Canada when using a factory-built chimney it must be safety listed, Type UL103 HT (2100 °F) CLASS "A" or conforming to CAN/ULC-S629M, STANDARD FOR 650 °C FACTORY-BUILT CHIMNEYS.

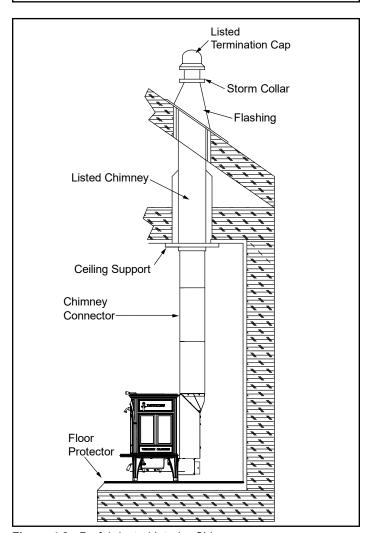


Figure 4.2 - Prefabricated Interior Chimney

Thimble

Site constructed for masonry chimney installation:

Components:

- A minimum length of 12" (305 mm) (longer for thicker walls) of solid insulated factory-built chimney length constructed to UL 103 Type HT 6" (152 mm) inside diameter. Chimney needs to extend a minimum of 2" (51 mm) from the interior wall and a minimum of 1" (25 mm) from the exterior wall.
- Wall spacer, trim collar and wall band to fit solid pack chimney selected.
- Minimum 8" (203 mm) diameter clay liner section (if not already present in chimney) and refractory mortar.
- When jurisdiction requires install approved chimney liner in masonry chimney.

Air Clearances:

- Masonry chimney clearance must meet NFPA 211 minimum requirement of 2" (51 mm) to sheet metal supports and combustibles.
- Minimum of 1" (25 mm) clearance around the chimney connector.
- Top of wall opening is a minimum of 13-1/2" (343 mm) from ceiling or 4-1/2" (114 mm) below minimum clearance specified by chimney connector manufacturer. NFPA 211 minimum vertical clearance of 18" (457mm) from chimney connector and ceiling or minimum recommended by chimney connector manufacturer, Figure 4.3

Instructions:

- 1. Open inside wall at proper height for the chimney connector to enter the masonry chimney, Figure 4.3
- Entry hole to masonry chimney must be lined with an 8" (203 mm) minimum diameter clay liner, or equivalent, secured with refractory mortar.
- 3. Construct a 17" x 17" (432 mm x 432 mm) outside dimension frame from 2 x 2 framing lumber to fit into wall opening. Inside opening of frame should be no less than 14" x 14" (356 mm x 356 mm), Figure 4.4. Attach the wall spacer to the chimney side of the frame.
- 5. Nail the frame into the wall opening. The spacer should be on the chimney side.
- Insert the section of the solid insulated chimney into the outer wall of the masonry chimney.
- 7. Tightly secure the length of the solid insulated chimney with the wall band to the masonry chimney.
- Insert a section of chimney connector into the chimney.
 Make sure it does not protrude past the edge of the clay chimney liner inside the chimney.
- Seal the end of the chimney connector to the clay liner with refractory mortar.
- 10. Install trim collar around the sold pack chimney section.

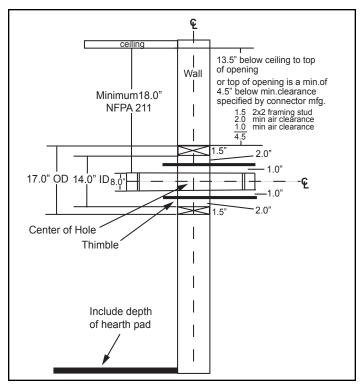


Figure 4.3

Solid Pack Chimney with Metal Supports as a Thimble

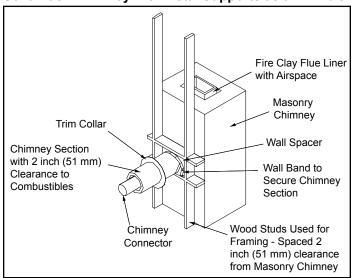


Figure 4.4

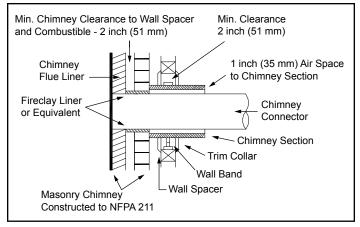


Figure 4.5



WARNING



Fire Risk

Do NOT pack insulation or other combustibles between spacers.

- ALWAYS maintain specified clearances around venting and spacers.
- Install spacers as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.



WARNING



Fire Risk

Inspection of Chimney:

- Chimney must be in good condition.
- · Meets minimum standard of NFPA 211
- Factory-built chimney must be 6" (152mm) UL103 HT.



WARNING



Asphyxiation Risk

- DO NOT CONNECT THIS APPLIANCE TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

May allow flue gases to enter the house.



WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or your dealer.

D. Installing Chimney Components

Chimney Connector

Single wall connector or appliance pipe: This must be at least 24 gauge mild steel or 26 gauge blue steel. The sections must be attached to the appliance and to each other with the crimped (male) end pointing toward the appliance. All joints, including the connection at the flue collar, should be secured with 3 sheet metal screws. Make sure to follow the minimum clearances to combustibles. Where passage through the wall, or partition of combustible construction is desired in Canada, the installation shall conform to CAN/CSA-B365.

Factory-built (Double-Wall) listed chimney connector: A listed connector (vented) must be used when installing this appliance in a mobile home. The listed connectors must conform to each other to ensure a proper fit and seal.

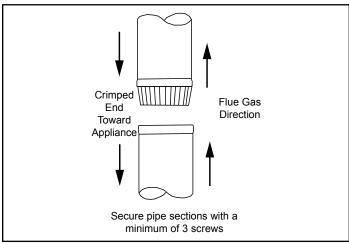


Figure 4.6 - Chimney Connector (Appliance Pipe)



WARNING



Fire Risk

Follow Chimney Connector Manufacturer's Instructions for Proper Installation.

ONLY use connector:

- Within the room, between appliance and ceiling or wall.
 Connector shall NOT pass through:
- Attic or roof space
- · Closet or similar concealed space
- · Floor or ceiling

Maintain minimum clearances to combustibles

5

Appliance Set-Up

A. Removing Unit from Skid

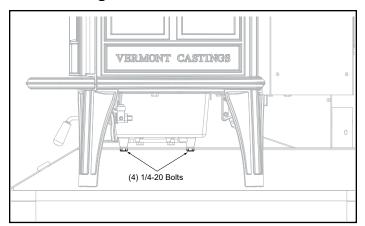


Figure 5.1 - Remove unit from shipping brackets.

Remove the unit from the shipping brackets by removing (2) 1/4-20 hex head bolts from each shipping bracket, leaving brackets attached to the skid, Figure 5.1. (Save the 1/4-20 hex head bolts as they will be needed later to install heat shield.)

NOTE: When moving the stove, lift the stove to take weight off the legs whenever possible. Dragging or sliding the stove, especially across rough surfaces can cause the legs to break.

B. Assembly

Set Up Your Stove: Cast iron stoves are heavy, and it will take two to four people to move your Dauntless-C into position.

Wipe the protective coating of oil from the griddle with a clean dry rag or a paper towel.

Install the handle on the griddle. Open front door and push up on griddle and assemble the handle, Figure 5.2.

With the handle pointing 45° from its final position, tighten the nut as far as possible with the pliers. Move the handle to its

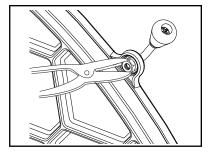


Figure 5.2 - Attach the griddle handle.

final position while still holding the nut with the pliers.



Overtightening can strip tapped threads.

Install the Bottom Heat Shield:

NOTE: The Bottom Heat Shield is required in most installations. Refer to Floor Protection, in the Dimensions and Clearances Section of this manual for further details.

- 1. Align the bottom heat shield holes with the four bolts removed from the shipping brackets
- 2. Pass all four bolts through the large end of the keyholes and then pulling the shield forward to engage the smaller ends of the keyhole slots, Figure 5.3.
- 3. Attach the heat shield sides by passing the slots over the bolt heads. Tighten the hex head bolts.

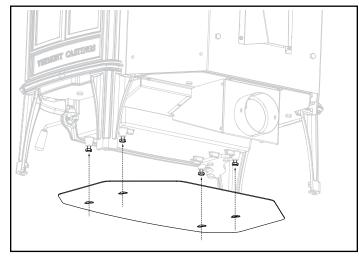


Figure 5.3 - Attach the bottom heat shield.

Adjust the Leg Levelers: Lift the stove slightly so there is no weight on the leg while making the adjustment.



The flue collar heat shield must be installed in all installations.

Attach the Damper Handle: Use the 1/4"-20 x 3" screw to attach the damper handle to the damper stub on the left side.

Assemble the Removable Insert Handle: The wooden removable insert handle opens and closes the front doors. Remove after each use, and store it in the handle holder behind the left front leg. Assemble the handle by passing the 3-3/8" screw through the wooden shaft and into the bright metal nub, Figure 5.4. Tighten carefully until snug.

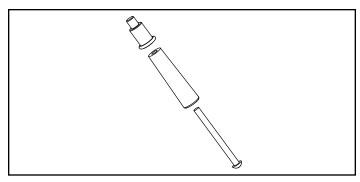


Figure 5.4 - Assemble the fall away door handle.

Storing the Handle: Use the removable handle to open or close the doors. After using it, remove the handle so it will not get hot. Store the handle in the handle holder installed behind the left front leg, Figure 5.5.

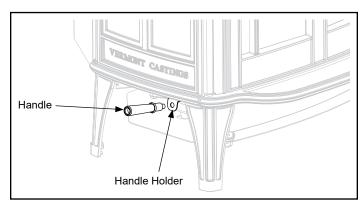


Figure 5.5 - Handle holder and heat shield positions.

C. Smoke and CO Detectors & Safety Tips

Smoke and CO Detectors: The use of smoke and carbon monoxide (CO) detectors throughout the home is strongly advised, even if not required by building codes or insurance regulations. It is a good idea to install a smoke detector in the living areas and each bedroom. Follow the smoke/CO detector manufactures placement and installation instructions and maintain regularly.

You may not, however, wish to install a detector in the immediate vicinity of the stove. Depending on the sensitivity of the unit, the alarm can be set off while you are tending the fire or emptying the ashes. If you install a detector in the same room, locate it as far away from the stove as possible.

Safety Tips: Conveniently locate a "Class A" fire extinguisher to contend with small fires. Be sure the fire extinguisher works and is clearly visible. All occupants of the house should know where it is, and how it operates. Have heavy stove gloves available near the stove. Have special safety accessories (e.g., Child Guard Screen) available for use if small children will be in the home.

In the event of a stove pipe or chimney fire....

- Evacuate the house immediately
- · Notify the fire department
- If the fire isn't too threatening, closing down the stove tight, (damper, primary air, all doors) will help to smother the fire.
- Inspect your stove, vent pipe and chimney for any damage caused by the fire and correct any damage before using your stove again.



WARNING



Fire Risk

- Do not leave the fire unattended when the door is unlatched.
- Unstable firewood could fall out of the firebox creating a fire hazard to your home.

D. Reversible Flue Collar (If necessary)

Tools Required: Phillips head screwdriver.

The flue collar is reversible for either a top or rear venting installation. The appliance is shipped with the flue collar in the top vent position.

Converting Collar For Rear Vent Installation:

- 1. Remove (10) #8 Tek screws from the heat shield cover and heat shield. Remove heat shield and cover, Figure 5.6.
- 2. Remove (2) 1/4-20 pan head screws from the flue collar. Remove flue collar, Figure 5.6.
- Turn flue collar to horizontal position. Inspect rope gasket located on the rear cast housing to ensure a leak free seal. Re-install flue collar, heat shield and heat shield cover, Figure 5.7.

Note: There is a knockout on the rear air jacket that will need to be removed prior to installing the flue collar for it to fit properly to the unit, Figure 5.7.

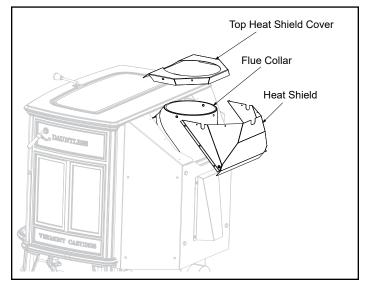


Figure 5.6

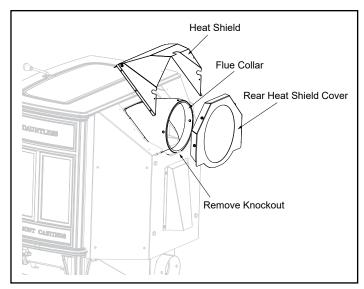


Figure 5.7

E. Install the Catalytic Combustor

1. Locate the access cover at the rear center of the unit, Figure 5.8.

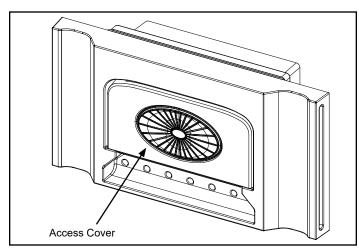


Figure 5.8 - Locate access cover.

2. Remove the access cover by pulling it straight up and out, Figure 5.9.

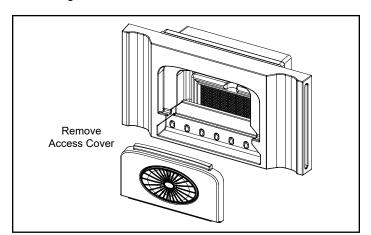


Figure 5.9 - Remove access cover.

- 3. To install the catalytic combustor with the Interam gasket correctly, follow these steps (Figure 5.10):
 - Ensure the cavity is clean Remove any ash, debris, or obstructions from the area where the combustor will sit.
 - Check the Interam gasket It should be properly attached to the catalytic combustor, with no tears or misalignment.

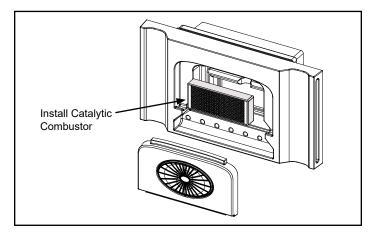
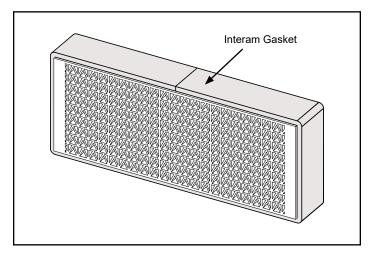


Figure 5.10 - Install catalytic combustor.

If just installing the Interam Gasket:

- 1. To install the Interam gasket correctly, follow these steps:
 - Ensure the outside the the Combustor is clean Remove any ash, debris.
 - Install the Interam gasket around the Combustor
 It should be properly attached to the catalytic combustor, with no tears or misalignment. Use tape or spray adhesive to hold the gasket in place.

Follow Step 3 to install Catalytic Combustor.



F. Install the Catalyst Temperature Probe

- 1. Remove #8 Tek screw as shown in Figure 5.11.
- 2. Install the thermostat bracket and temperature probe using the #8 Tek screw that was removed, along with the one supplied in the kit.
- 3. Fold the bracket strap over the catalyst probe and secure it with the remaining screw.

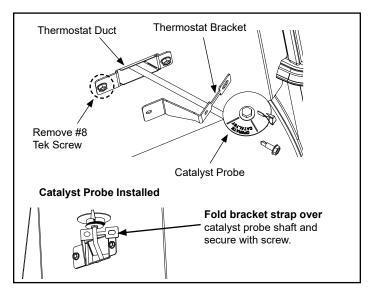


Figure 5.11 - Install the Catalyst Temperature Probe

G. Outside Air Installation

A source of air (oxygen) is necessary in order for combustion to take place. Whatever combustion air is consumed by the fire must be replaced. Air is replaced via air leakage around windows and under doors. In homes that have tightly sealed doors and windows, an outside air source is needed. An Outside Air box is installed from factory to accommodate outside air. An optional outside air kit is available

Items Needed for Installation (not supplied):

- · Phillips head screw driver
- Wire ties
- Plastic outside air vent
- 3" Flex or Rigid Duct
- 3" Outside Air Termination Cap with Screen
- Silicone sealant
- Drills and saws necessary for cutting holes through the wall or flooring in your home.
- 1. Remove all materials from packing box.
- 2. Using a #2 Phillips screw driver attach the flex adapter to the appliance using 4 screws. Figure 5.12 & 5.13.
- 3. Floor & Rear Installation: Cut a 3" (76 mm) hole in outside wall or floor to accommodate outside air piping. Use 3" (76 mm) aluminum metal flex or rigid piping to directly connect outside air to appliance intake. Use the supplied termination cap with a rodent screen. Seal between the wall (or floor) and the pipe with silicone to prevent moisture penetration.

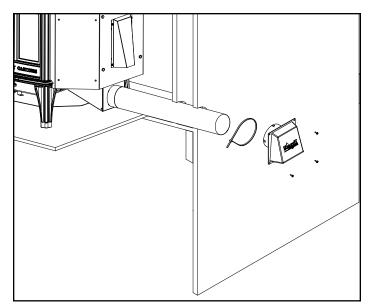


Figure 5.12 - Rear Installation

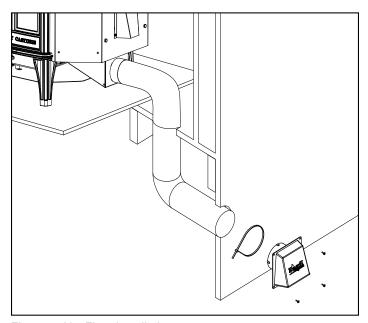


Figure 5.13 - Floor Installation



Fire Risk - Asphyxiation Risk

Do not draw outside combustion air from:

- · Wall, floor or ceiling cavity
- · Enclosed space such as an attic or garage
- Close proximity to exhaust vents or chimneys Fumes or odor may result

Outside air inlet must be located to prevent blockage from Leaves, Snow or ice, Other debris. Blockage may cause combustion air starvation.

- · Fire will not burn properly
- Smoke spillage occurs when door is opened due to air starvation



Mobile Home Installation - Approved for USA Installation ONLY!

You must use Mobile Home Brackets located in the manual pack for installation in a mobile home.

- 1. An outside air inlet must be provided for combustion.
- 2. The stove must be permanently secured to the floor using the mobile home brackets supplied in the manual pack along with screws or lag bolts (not supplied), Figure 6.1.

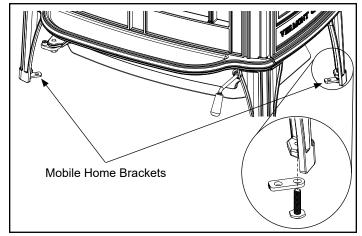


Figure 6.1

- Appliance must be grounded with #8 solid copper grounding wire or equivalent and terminated at each end with N.E.C. approved grounding device.
- 4. Appliance must be installed with an approved UL103 HT ventilated chimney connector, UL103 HT chimney, and terminal cap with spark arrestor. Never use a single wall connector (appliance pipe) in a mobile home installation. Use only double-wall connector pipe, Dura-Vent DVL, Selkirk Metalbestos DS or Security DL double-wall connector or any listed double-wall connector pipe.
- In Canada, this appliance must be connected to a 6" (152 mm) factory-built chimney conforming to CAN/ULC-629M, STANDARD FOR FACTORY BUILT CHIMNEYS.
- Follow the chimney and chimney connector manufacturer's instructions when installing the flue system for use in a mobile home.
- 7. Maintain clearance to combustibles.
- 8. Floor protection requirements must be followed precisely.
- 9. Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the exterior of the structure.

NOTE: Offsets from the vertical, not exceeding 45°, are allowed per Section 905(a) of the Uniform Mechanical Code (UMC). Offsets greater than 45° are considered horizontal and are also allowed, providing the horizontal run does not exceed 75% of the vertical height of the vent. Construction, clearance and termination must be in compliance with the UMC Table 9C. This installation must also comply with NFPA 211.

NOTE: Top sections of chimney must be removable to allow maximum clearance of 13.5 feet (411cm) from ground level for transportation purposes.

- 10. Burn wood only. Other types of fuels may generate poisonous gases (e.g., carbon monoxide).
- 11. If appliance burns poorly while an exhaust blower is on in home, (i.e., range hood), increase combustion air.
- 12. Installation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.



CAUTION

THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAINTAINED

Do NOT cut through:

- · Floor joist, wall, studs or ceiling trusses.
- Any supporting material that would affect the structural integrity.



WARNING



Asphyxiation Risk

NEVER INSTALL IN A SLEEPING ROOM. Consumes oxygen in the room.



Please contact your authorized dealer with any questions or concerns. For the number of your nearest dealer log onto www.forgenflame.com

CAUTION



Important operating and maintenance instructions included.

- DO NOT DISCARD THIS MANUAL
 - follow these instructions for safe installation and operation.
- Read, understand and Leave this manual with party responsible for use and operation.

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> 4	DISCARD
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We recommend that you record the following pertinent information for your heating appliance.

Date purchased/installed:	_
Serial Number:	Location on appliance:
Dealership purchased from:	_ Dealer phone:
Notes:	

This product may be covered by one or more of the following patents: (United States) 5341794, 5263471, 6688302, 7216645, 7047962 or other U.S. and foreign patents pending.

