



Patriot Wood Stove Owner's Manual

- Freestanding Stove
- Mobile-Home Approved
- Alcove Approved
- Hearth-Stove Approved

*Save these instructions
for future reference*

SAFETY NOTICE:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.



**TRAVIS INDUSTRIES
HOUSE OF FIRE**

© Copyright 2005, T.I.
\$10.00 93508039
4040820



Listed

Tested to: U.L. 1482

Introduction

We welcome you as a new owner of a Lopi Patriot wood-burning stove. In purchasing a Patriot you have joined the growing ranks of concerned individuals whose selection of an energy system reflects both a concern for the environment and aesthetics. The Patriot is one of the finest appliances the world over. This manual will explain the installation, operation, and maintenance of this appliance. Please familiarize yourself with the Owner's Manual before operating your appliance and save the manual for future reference. Included are helpful hints and suggestions which will make the installation and operation of your new appliance an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your appliance.

Important Information

No other Lopi Patriot appliance has the same serial number as yours. The serial number is stamped onto the label on the back of the appliance.

This serial number will be needed in case you require service of any type.

Model: Lopi Patriot

Serial Number: _____

Purchase Date: _____

Purchased From: _____

Mail your Warranty Card Today, and Save Your Bill of Sale.

To receive full warranty coverage, you will need to show evidence of the date you purchased your appliance. Do not mail your Bill of Sale to us.

We suggest that you attach your Bill of Sale to this page so that you will have all the information you need in one place should the need for service or information occur.

NATIONAL
FIREPLACE
INSTITUTE



www.nficertified.org

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



General Information

| | |
|---|---|
| Introduction & Important Information..... | 2 |
| Safety Precautions | 4 |
| Features & Specifications..... | 6 |

Stove Installation

| | |
|---------------------------------------|----|
| Planning The Installation..... | 7 |
| Floor Protection Requirements..... | 8 |
| Stove Placement Requirements | 8 |
| Clearances | 8 |
| Chimney Requirements | 10 |
| Chimney Termination Requirements..... | 11 |
| Outside Air Requirements | 11 |
| Alcove Installation Requirements..... | 12 |
| Mobile Home Requirements | 13 |

INSTALLATION DIAGRAMS

| | |
|---|----|
| Standard Ceiling with a Factory Built Chimney..... | 14 |
| Cathedral Ceiling with a Factory Built Chimney..... | 14 |
| Exterior Factory Built Chimney | 15 |
| Hearth Stove Positive Connection..... | 15 |
| Hearth Stove Direct Connection | 16 |
| Interior Masonry Chimney | 16 |

Operating Your Appliance

| | |
|---------------------------------|----|
| Safety Notice..... | 17 |
| Before Your First Fire | 17 |
| Opening the Door..... | 17 |
| Starting a Fire..... | 18 |
| Adjusting the Burn Rate..... | 19 |
| Ash Removal..... | 19 |
| Optional Blower Operation | 20 |
| Re-Loading the Stove..... | 20 |
| Overnight Burn | 20 |
| Normal Operating Sounds..... | 20 |
| Hints for Burning | 21 |
| Selecting Wood..... | 21 |
| Troubleshooting | 22 |

Maintaining Your Appliance

| | |
|---|----|
| Daily Maintenance..... | 23 |
| Remove Ash | 23 |
| Clean The Glass | 23 |
| Monthly Maintenance | 24 |
| Door and Glass Inspection | 25 |
| Check For Creosote Buildup..... | 24 |
| Yearly Maintenance | 25 |
| Touch Up Paint..... | 25 |
| Blower Cleaning..... | 25 |
| Firebrick and Baffle Inspection | 25 |
| Door Parts | 26 |
| Replacing the Glass..... | 26 |
| Replacing the Door Gasket..... | 26 |
| Replacing the Door Handle..... | 26 |
| Firebox Parts..... | 27 |
| Floor & Side Firebrick Removal & Replacement..... | 27 |
| Baffle Removal and Replacement..... | 28 |
| Air Tube Removal and Replacement | 28 |

Warranty

| | |
|----------------|----|
| Warranty | 29 |
|----------------|----|

Listing Information

| | |
|---------------------------|----|
| Listing Information | 30 |
|---------------------------|----|

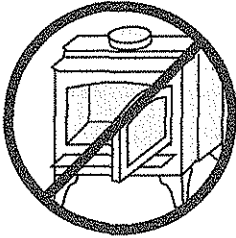
Optional Equipment

| | |
|------------------------------------|----|
| Rear Blower Installation..... | 31 |
| Outside Air Boot Installation..... | 32 |

Index

| | |
|-------------|----|
| Index | 34 |
|-------------|----|

Safety Precautions

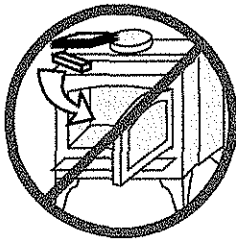


The viewing door must be closed and latched during operation.

Never block free airflow through the air vents on this appliance.



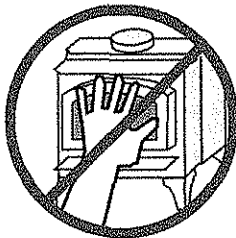
Gasoline or other flammable liquids must never be used to start the fire or "Freshen Up" the fire. Do not store or use gasoline or other flammable liquids in the vicinity of this appliance.



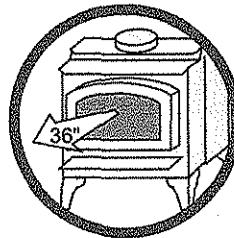
This appliance is designed and approved for the burning of cord wood only. Do not attempt to burn any other type of fuel other than cord wood in this appliance, it will void all warranties and safety listings.



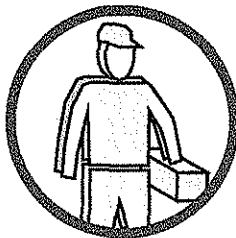
Ashes must be disposed in a metal container with a tight lid and placed on a non-combustible surface well away from the home or structure.



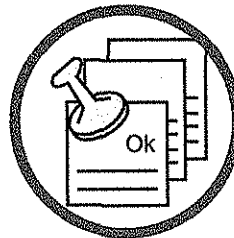
Do not touch the appliance while it is hot and educate all children of the danger of a high-temperature appliance. Young children should be supervised when they are in the same room as the appliance.



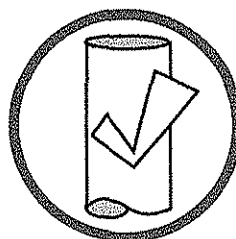
Keep furniture, drapes, curtains, wood, paper, and other combustibles a minimum of 36" away from the front of the appliance.



This appliance must be properly installed to prevent the possibility of a house fire. The instructions must be strictly adhered to. Do not use makeshift methods or compromise in the installation.

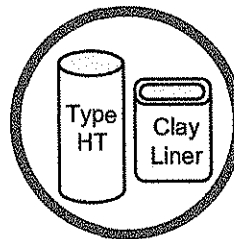


Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of this appliance as well.



Inspect the chimney connector and chimney at least twice monthly and clean if necessary. Creosote may build up and cause a house fire.

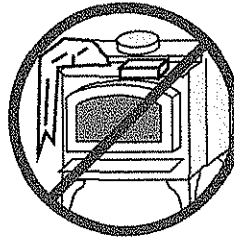
Do not connect this appliance to any chimney serving another appliance.



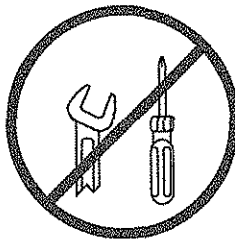
This appliance must be connected to a listed high temperature (UL 103 HT) residential type chimney or an approved masonry chimney with a standard clay tile, or stainless steel liner.



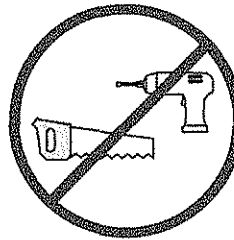
When installed in a mobile home, this appliance must be bolted to the floor, have outside air, and not be installed in the bedroom (Per H.U.D. requirements). Check with local building officials.



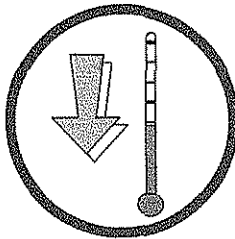
Do not place clothing or other flammable items on or near this appliance.



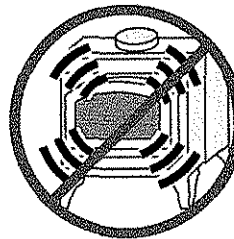
Never try to repair or replace any part of this appliance unless instructions are given in this manual. All other work must be done by a trained technician.



Do not make any changes or modifications to an existing masonry fireplace or chimney to install this appliance.

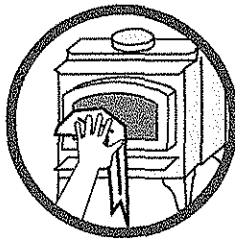


Allow the appliance to cool before carrying out any maintenance or cleaning.

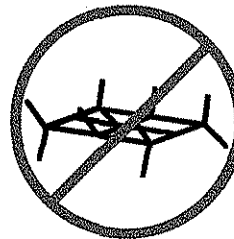


Do not make any changes to the appliance to increase combustion air.

Overfiring the appliance may cause a house fire. If a unit or chimney connector glows, you are overfiring.



Maintain the door and glass seal and keep them in good condition.

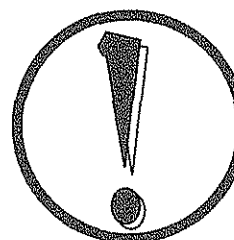


Do not use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the bricks.

Avoid placing wood against the glass when loading. Do not slam the door or strike the glass.



Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.



Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your appliance, and assumes no responsibility of any consequential damage(s).

Installation Options

- Freestanding
- Freestanding in an Alcove
- Freestanding in a Mobile Home
- Freestanding Hearth Stove

Features

- EPA Phase II Approved
- 1.6 Cubic Foot Firebox Volume
- Single Operating Control
- Accepts Logs Up to 18" Long
- Steel Plate Construction (1/4" & 3/16")
- Heavy Duty Refractory Firebrick
- Optional High-Tech Blower

Heating Specifications

| | |
|--|---------------|
| Approximate Maximum Heating Capacity (in square feet)* | 600 to 1,200 |
| Maximum BTU's per Hour (Cord Wood Calculation) | 66,800 |
| Overall Efficiency (Oregon Method) | 70 % |
| Maximum Burn Time | Up to 8 Hours |

* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outside temperature. It is also affected by the quality and moisture level of the fuel.

Dimensions

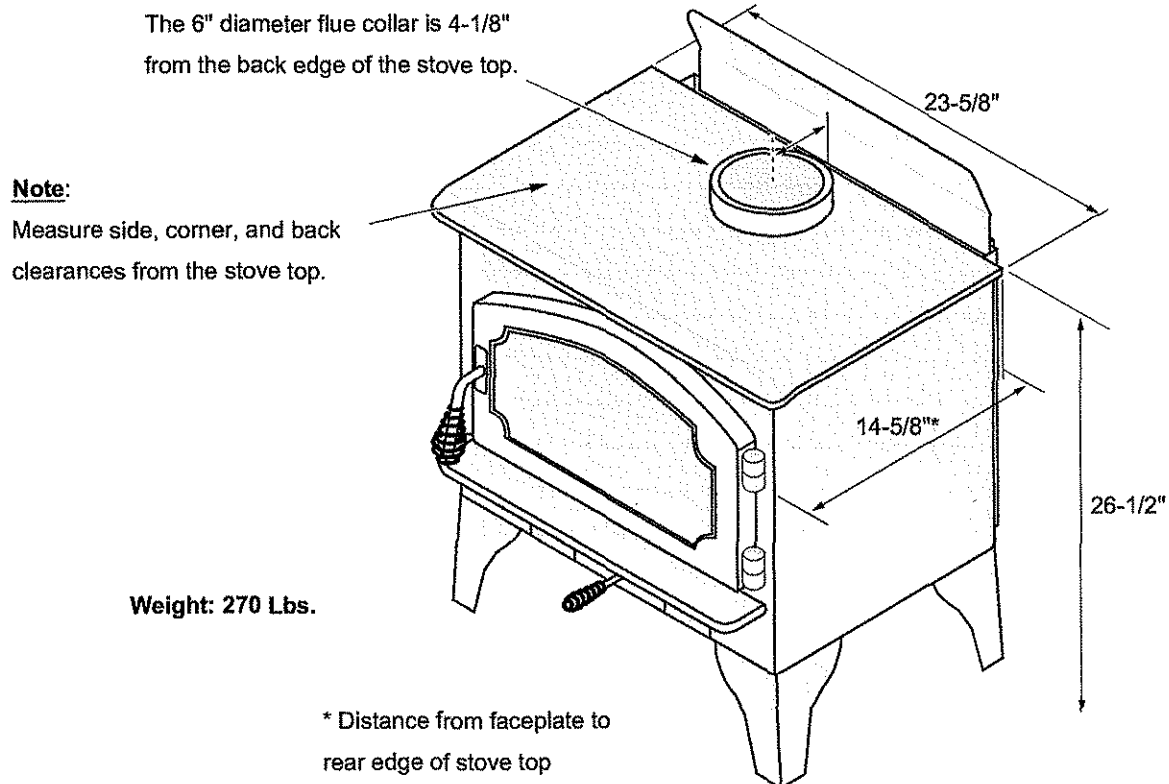


Figure 1

Emissions

4.4 Grams Per Hour (EPA Phase II Approved) – Tests conducted by E.E.S.P.C.

SAFETY NOTICE:

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Planning The Installation



We suggest that you have an authorized Travis Industries dealer install your stove. If you install the stove yourself, your authorized dealer should review your installation plans.



Check with local building officials for any permits required for installation of this stove and notify your insurance company before proceeding with installation.

Preparation for Installation

- Check for damage to the exterior of the stove (dents should be reported, scratches can be fixed by applying touch up paint).
- Check the interior of the firebox (replace cracked firebrick and make sure baffle is in place).



The stove can be lightened by removing the firebricks and baffle (pg 27) - replace before operation.

Stove Leg Installation

Raise the stove 8" (use lumber) and attach the included legs following the directions in Figure 2.

Attach each leg to the stove by inserting a bolt and washer through the hole or slot in the leg and into the threaded hole on the stove.

These rubber-tipped bolts are for leveling the stove. Make sure they contact the floor. Do not adjust with weight on the legs, the rubber tips may tear.

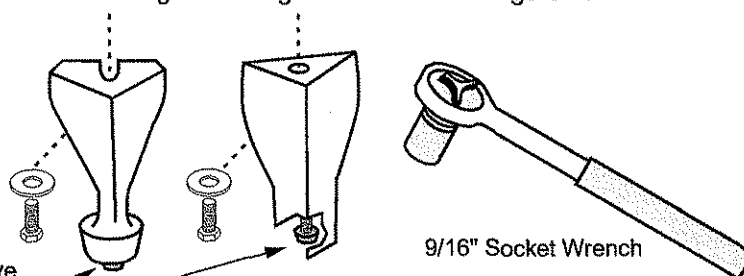
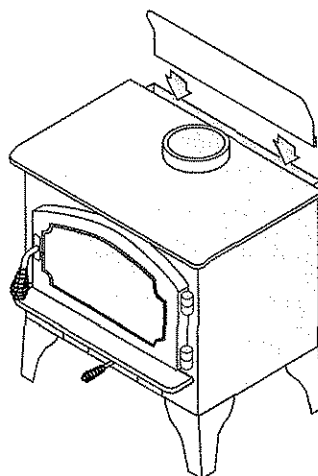


Figure 2

Pipe Heat Shield Installation

Install the pipe heat shield following the directions in Figure 3.



The pipe heat shield is shipped inside the stove. Install it by sliding this joggle over the back heat shield.

Figure 3

Floor Protection Requirements

- Floor protection must extend 6" to the sides and rear of the stove and 16" to the front of the stove (35-5/8" wide by 36-5/8" deep - see Figure 4 and Figure 5).
- Floor protection must be non-combustible and at least .018" thick (26 guage).

Stove Placement Requirements

Clearances may be reduced by methods specified in NFPA 211, listed wall shields, pipe shields, or other means approved by local building or fire officials.

- Stove must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" of the front of the stove
- If the stove is placed in a location where the ceiling height is less than 7', it must follow the requirements in the section "Alcove Installation Requirements"
- Must maintain the clearances to combustibles listed below (drywall, furniture, etc.):

Clearances

- The following clearances must be met (see Figure 4 and Figure 5)

| Minimum Clearance | | Singlewall Connector | Reduced Clearance* |
|-------------------|-------------------------|----------------------|--------------------|
| A | Sidewall to stove | 18" | 18" |
| B | Backwall to stove | 18" | 10-1/2" |
| C | Cornerwall to stove | 10" | 10" |
| D | Connector to sidewall | 27" | 26-1/2" |
| E | Connector to backwall | 19-1/4" | 11-1/4" |
| F | Connector to cornerwall | 17-3/4" | 17-1/4" |

*Reduced clearance installations require one of the chimneys and connectors listed below:

AMERI-TEC model DCC with model HS chimney
 DURAVENT model DVL with DURATEC or DURA-PLUS chimney
 GSW Super Chimney Twenty-One connected directly to appliance
 I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
 METALFAB model DW connector with TG chimney
 OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
 SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
 SELKIRK METALBESTOS model DS connector with model SSII chimney
 Standard Masonry Chimney with any one of the above listed connectors

NOTE: Reduced clearance connectors may not connect to the flue collar — an appliance adapter may be required.

NOTE: Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance.

Top View - Straight Installation

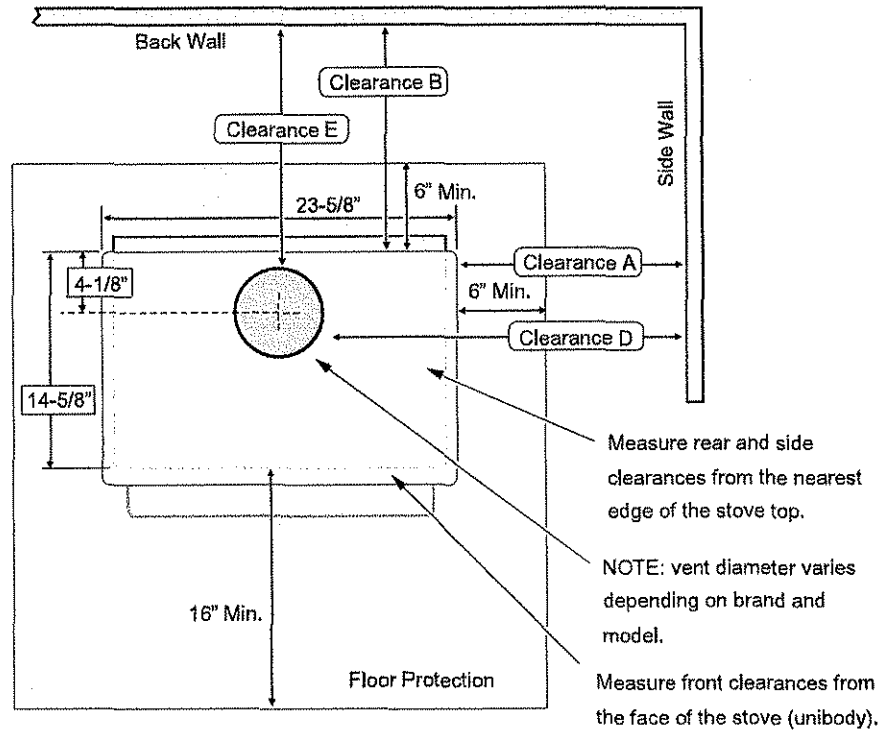


Figure 4

Top View - Corner Installation

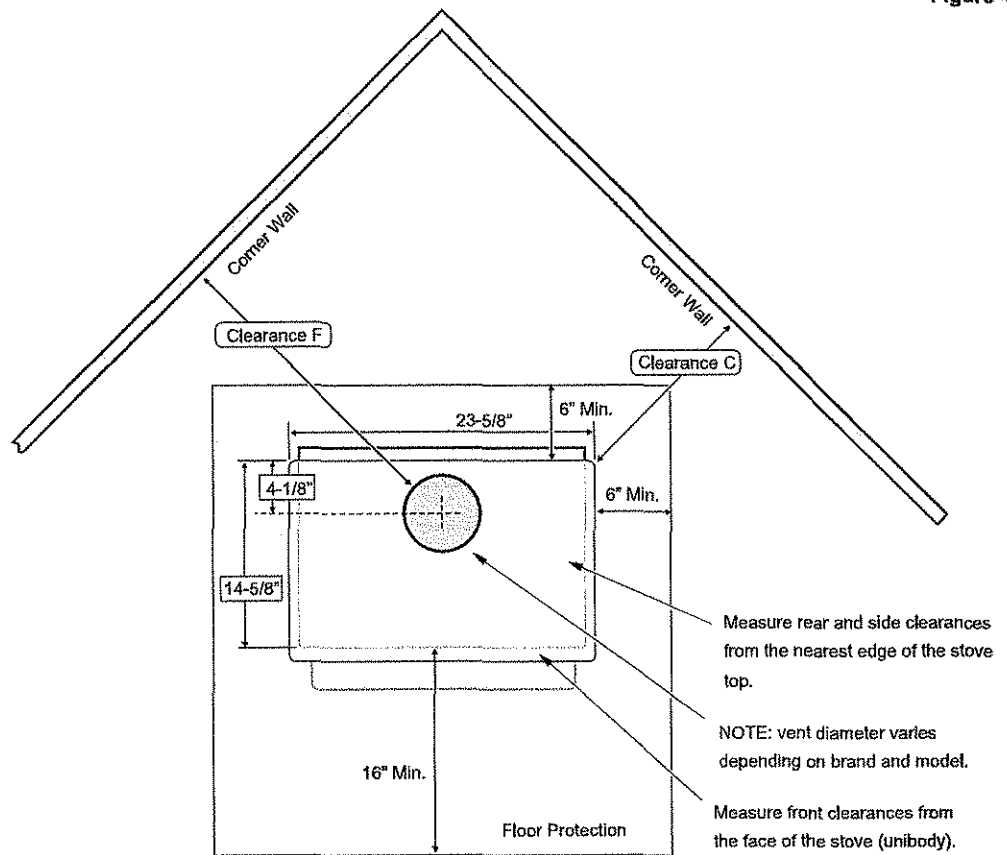


Figure 5

Chimney Requirements

- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.
- Chimney connector must be a minimum 24 MSG black or 26 MSG blued steel (6" diameter). Chimney must be used from the first floor or wall penetration to the chimney cap.
- Use 6" diameter type UL 103 HT chimney from one manufacturer (do not mix brands) or code approved masonry chimney with a flue liner.
- Chimney connector and chimney must be fastened to the stove and each adjoining section.
- Follow the chimney manufacturer's clearances and requirements.
- Use the chimney manufacturer's fire stops, attic guards, roof supports, and flashings when passing through a ceiling or thimble when passing through a combustible wall.
- No more than 180° of elbows (two 90° elbows, or two 45° & one 90° elbow, etc.).
- NOTE: Additional elbows may be allowed if draft is sufficient. Whenever elbows are used the draft is adversely affected. Additional chimney height may be required to boost draft.

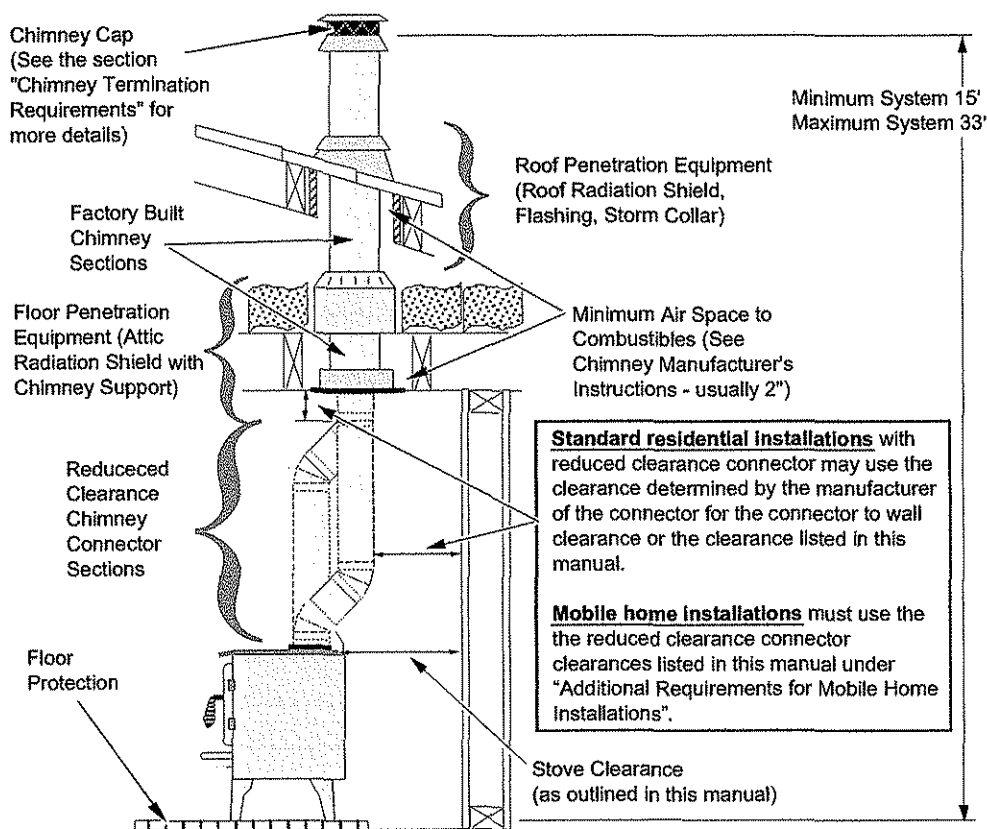


Figure 6

Drafting Performance

This appliance relies upon natural draft to operate. External forces, such as wind, barometric pressure, topography, or factors of the home (negative pressure from exhaust fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries can not be responsible for external forces leading to less than optimal performance.

Standard residential installations may use single-wall connector (Mobile-Homes may **not**)

- Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance. Mobile homes must use the clearances listed in this manual under "Mobile Home Requirements" on page 13.

Chimney Termination Requirements

- Must have an approved cap (to prevent water from entering)
- Must not be located where it will become plugged by snow or other material
- Must terminate at least 3' above the roof **and** at least 2' above any portion of the roof within 10' (see Figure 7)

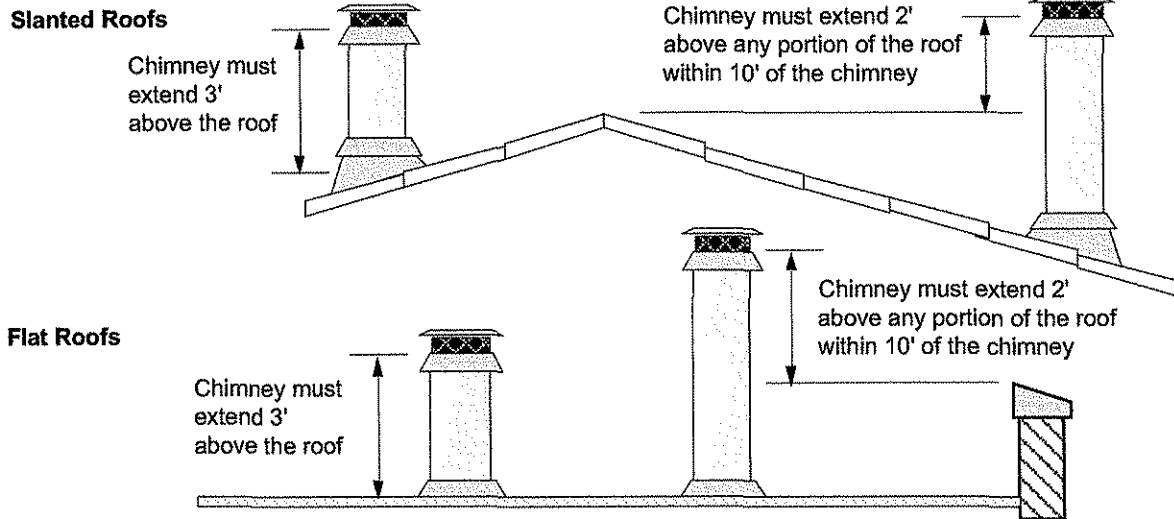


Figure 7

Outside Air Requirements

- Required for mobile homes & in certain localities (check with building officials)
- Must not be drawn from an enclosed space (garage, unventilated crawl space)
- Requires the optional outside air boot.

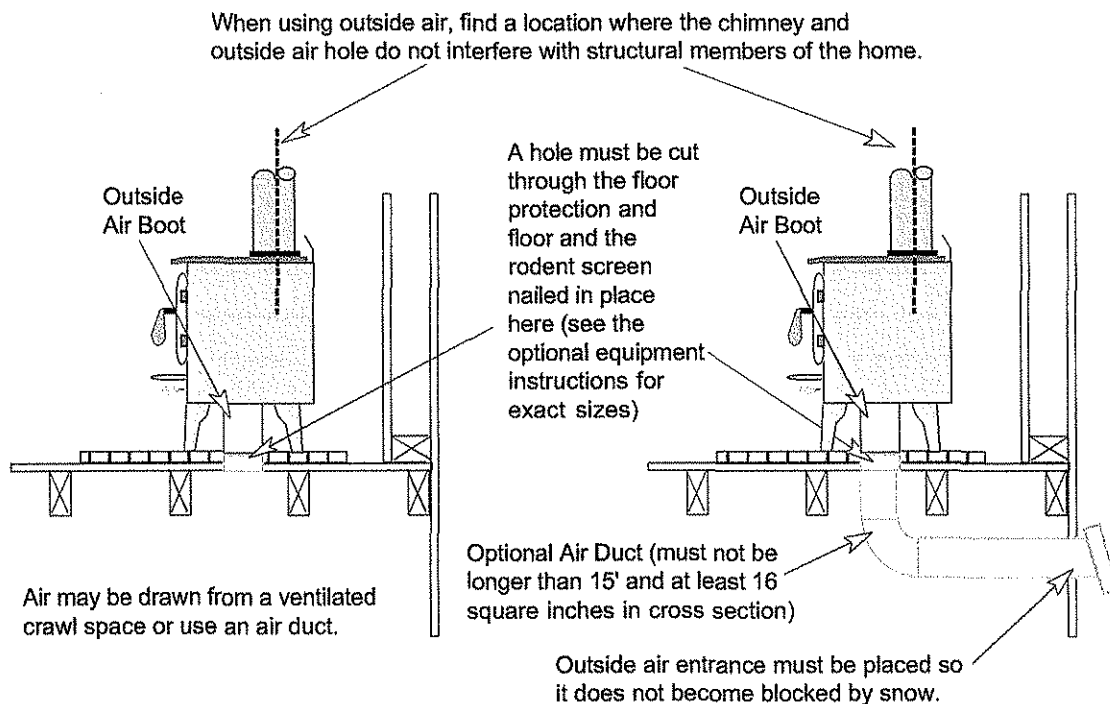


Figure 8

Alcove Installation Requirements

Whenever the stove is placed in a location where the ceiling height is less than 7' tall, it is considered an alcove installation. Because of the reduced height, the special installation requirements listed below must be met.

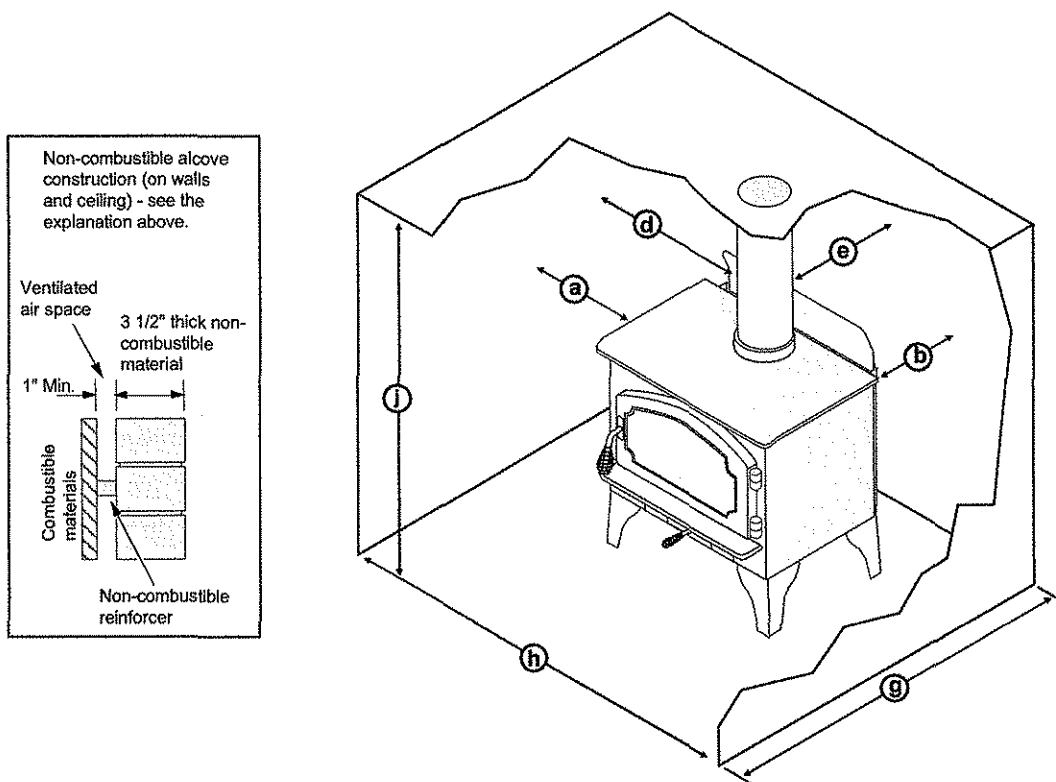
- Chimney connector and chimney must be one of the following types:

AMERI-TEC model DCC with model HS chimney
 DURAVENT model DVL with DURATEC or DURA-PLUS chimney
 GSW Super Chimney Twenty-One connected directly to appliance
 I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
 METALFAB model DW connector with TG chimney
 OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
 SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
 SELKIRK METALBESTOS model DS connector with model SSII chimney
 Standard Masonry Chimney with any one of the above listed connectors

NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

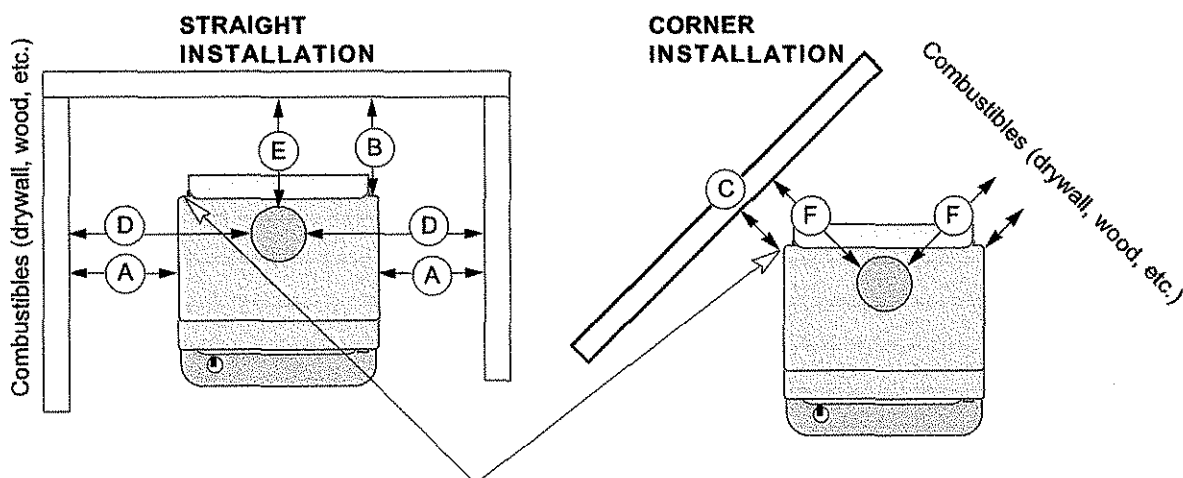
- Alcoves are classified as combustible or non-combustible. Non-combustible alcoves must have walls and a ceiling that are 3 1/2" thick of a non-combustible material (brick, stone, or concrete - see Figure 9). This non-combustible material must be spaced and ventilated at least 1" off of all combustible materials (walls, ceiling, etc.) to allow air to move around the non-combustible walls and ceiling. All other alcoves are considered combustible. The clearances below must be met:

| Minimum Clearance (See the Figure 9 below) | | Combustible Alcove | Non-Combustible Alcove |
|---|--------------------------|--------------------|------------------------|
| A | Sidewall to stove | 18" | 8" |
| B | Backwall to stove | 10-1/2" | 2" |
| D | Connector to sidewall | 26-1/2" | 16-1/2" |
| E | Connector to backwall | 11-1/4" | 2-1/2" |
| G | Maximum depth of alcove | 48" | 48" |
| H | Minimum width of alcove | 59-5/8" | 39-5/8" |
| J | Minimum height of alcove | 84" | 6" above stove top |



Mobile Home Requirements

- Outside air must be installed - see "Outside Air Requirements" on page 11
- Chimney connector and chimney must be one of the following types:
 - AMERI-TEC model DCC with model HS chimney
 - DURAVENT model DVL with DURATEC or DURA-PLUS chimney
 - GSW Super Chimney Twenty-One connected directly to appliance
 - I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
 - METALFAB model DW connector with TG chimney
 - OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
 - SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
 - SELKIRK METALBESTOS model DS connector with model SSII chimney
 - Standard Masonry Chimney with any one of the above listed connectors
- NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.
- Stove placement must maintain the following clearances to combustibles (drywall, furniture, etc.)



NOTE: Measure rear clearances from the edge of the stove top, not the rear heat shield.

Figure 10

| Minimum Clearance (See the illustration above) | | Reduced Clearance Connector |
|---|-------------------------|--------------------------------|
| A | Sidewall to stove | 18" |
| B | Backwall to stove | 10-1/2" |
| C | Cornerwall to stove | 10" |
| D | Connector to sidewall | 26-1/2" |
| E | Connector to backwall | 11-1/4" |
| F | Connector to cornerwall | 17-1/4" |

- If using offsets, use the connector clearance listed in Figure 11, **not the connector manufacturer's clearance.**
- The appliance must be secured to the floor (consult your building official). Secure the outside air boot to the floor and stove to insure the stove does not dislocate.
- Mobile home installations require a spark arrester at the chimney termination.
- The appliance must be grounded to the chassis of the mobile home (consult your building official).
- **WARNING:DO NOT INSTALL IN SLEEPING ROOM.**
- **CAUTION:THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.**

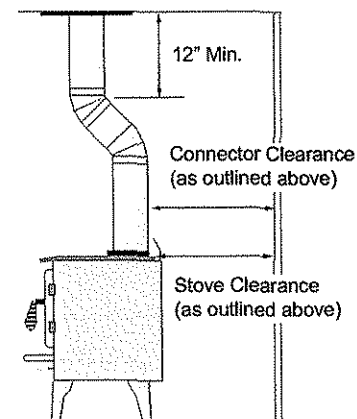


Figure 11

Standard Ceiling with a Factory Built Chimney

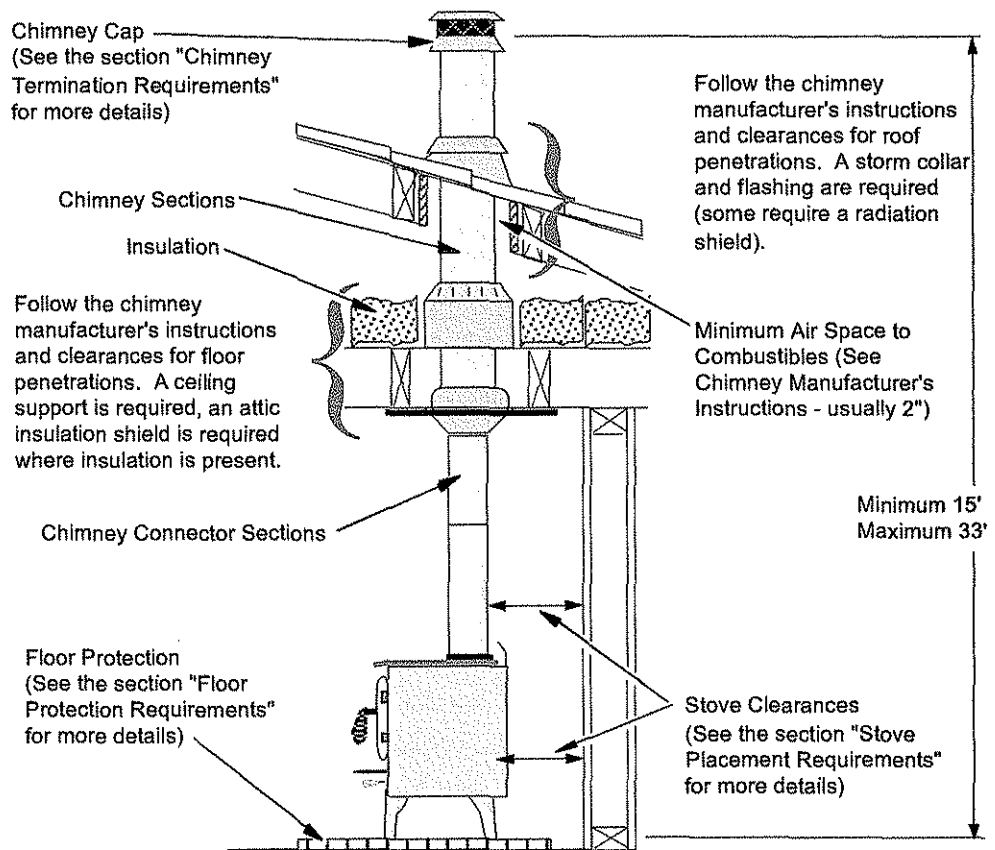


Figure 12

Cathedral Ceiling with a Factory Built Chimney

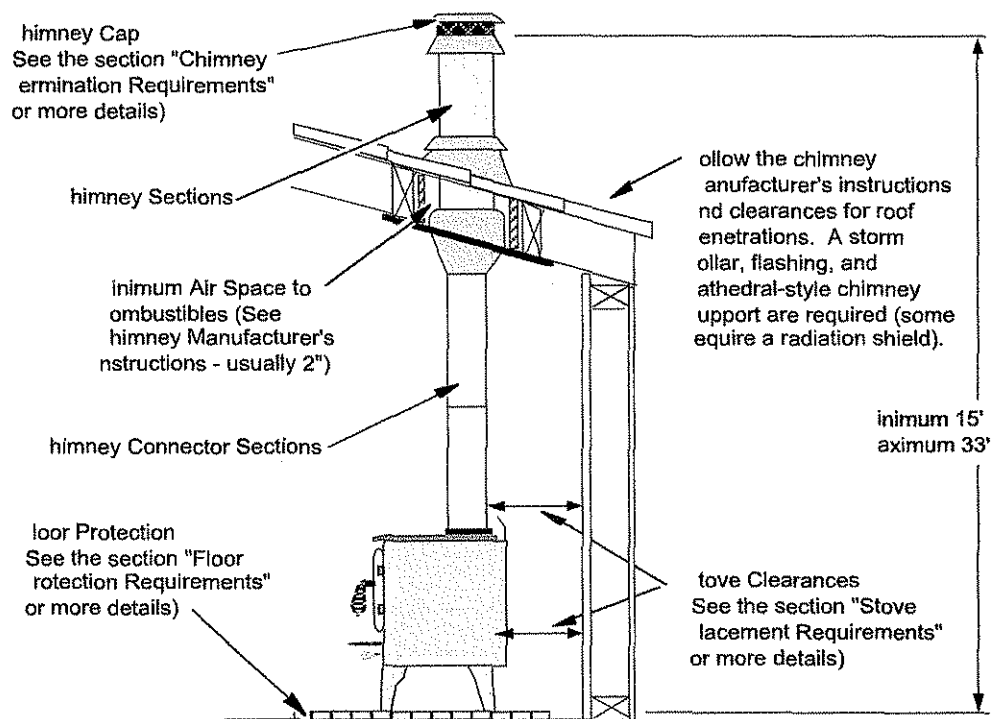


Figure 13