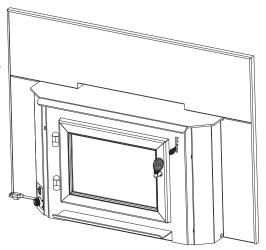


### Owner's Manual

Installation and Operation

Model: **ECO-WINS18** 

#### WOOD BURNING INSERT





### **CAUTION**





- 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.





## MARNING

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



#### WARNING

about. This information can be found at the front of the unit.

#### Fire Risk.

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





#### **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.



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends NFI certified professionals, or technicians supervised by an NFI certified professional.

Consumer Care 1-877-427-3316 - Prior to calling, please have the model and serial number of the unit you are calling 7065-132G • February 25, 2016

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

#### Congratulations!

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

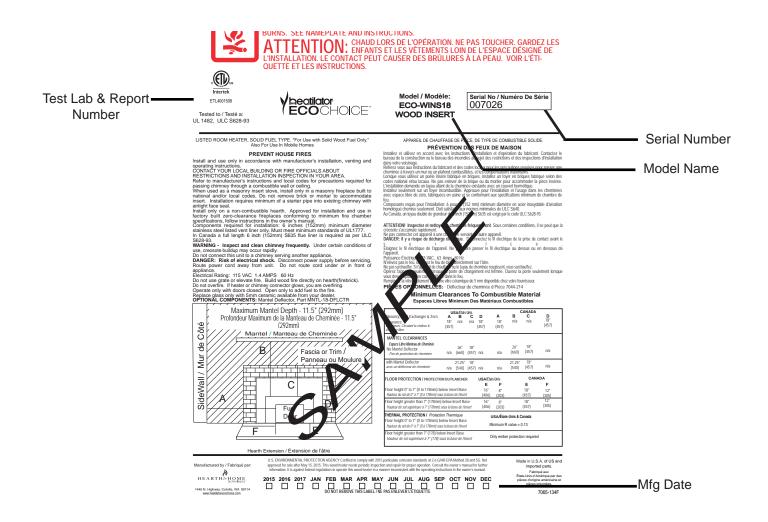
As the owner of a new wood burning appliance, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

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

NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction

# SAMPLE OF SERIAL NUMBER / SAFETY LABEL LOCATION: UNDER ASH LIP, PULL OUT TO VIEW





### 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 may result in death or serious injury.
- CAUTION! Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.
- NOTICE: Indicates practices which may cause damage to the appliance or to property.

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#### **Hearth & Home Technologies Inc.**

#### **HEATILATOR ECO-CHOICE WARRANTY**

Hearth & Home Technologies Inc., on behalf of its hearth brands ("HHT"), extends the following warranty for ECO-CHOICE by heatilator wood and pellet hearth appliances that are purchased from an HHT authorized dealer.

#### **WARRANTY COVERAGE:**

HHT warrantes to the original owner of the HHT appliance at the site of installation, and to any transferree taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchaser price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

#### **WARRANTY PERIOD:**

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

Warranty Period		Heatilator ECO-CHOICE Appliances		Components Covered	
Parts	Labor	Pellet	EPA Wood	]	
1	year	Х	Х	All parts and material except as covered by Conditions, Exclusions, and Limitations listed	
3 :	years	Х		Firepots and burnpots	
3 years	1 year	Х	Χ	Castings	
5 years	3 years		Χ	Manifold tubes	
5 years	3 years	Х	Χ	Firebox and heat exchanger	
90 days		Х	Х	All replacement parts beyond warranty period	

See conditions, exclusions, and limitations on next page

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#### **WARRANTY COVERAGE:**

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on th HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

#### **WARRANTY EXCLUSIONS:**

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacment of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets; firebricks; grates; flame guides; light bulbs; batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliances' capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

#### This warranty is void if:

- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Overfiring can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to improper chimney or venting installation.

#### **WARRANTY EXCLUSIONS:**

• The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidiental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specifice rights; you may also have other rights, which vary from state to state. 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 EXPRESSED WARRANTY SPECIFIED ABOVE.

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### **Listing and Code Approvals**

#### A. Appliance Certification

Model:	ECO-WINS18	
Laboratory:	Intertek	
Report No:	100398890PRT-001	
Type:	Solid Fuel Type, Listed Room Heater	
Standard:	UL1482 and ULC S628-93 and	
	(UM) 84-HUD, Mobile Home	
	Approved.	

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the UL1482, (UM) 84-HUD and NPFA211 in the U.S.A. and the ULC S628-93 and CAN/CSA-B365 Installation Codes in Canada.

The Heatilator ECO-WINS18 meets the U.S. Environmental Protection Agency's crib wood emission limits for wood heaters sold after May 15, 2015.

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

ECO-CHOICE is a registered trademark of Hearth & Home Technologies.

The Heatilatro ECO-WINS18 meets the U.S. Environmental Protection Agency's 1990 particulate emission standards.

Intertek Testing Laboratory is a National Recognized Test Lab (NRTL) approved by OSHA.

#### **B. Mobile Home Approved**

- This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided.
- The structural integrity of the mobile home floor, ceiling, and walls must be maintained.
- The appliance must be properly grounded to the frame of the mobile home with #8 copper ground wire, and use only listed double-wall connector pipe.
- Outside Air Kit, part OAK-ACC must be installed in a mobile home installation.

#### C. Glass Specifications

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

#### D. BTU & Efficiency Specifications

EPA Certification #:	777
EPA Certified Emissions:	2.6 grams per hour
*LHV Tested Efficiency:	80.4 %
**HHV Tested Efficiency:	74.4 %
***EPA BTU Output:	10,900 to 22,600 / hr.
****Peak BTU/Hour Output:	49,600
Vent Size:	6 inches
Firebox Size:	2.0 cubic feet
Maximum Wood Length:	18 inches
Ideal Wood Length:	18 inches
Fuel	Seasoned Cord Wood

<sup>\*</sup> Weighted average LHV efficiency using Douglas Fir dimensional lumber and data collected during EPA emissions test.

\*\*\*A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests, using Douglas Fir dimensional lumber.

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



#### 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 unit).
- Do NOT Overfire If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

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.

<sup>\*\*</sup>Weighted average HHV efficiency using Douglas Fir dimensional lumber and data collected during EPA emissions test.

### **Operating Instructions**

## **A** WARNING



#### **HOT SURFACES!**

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

#### Hot glass will cause burns.

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

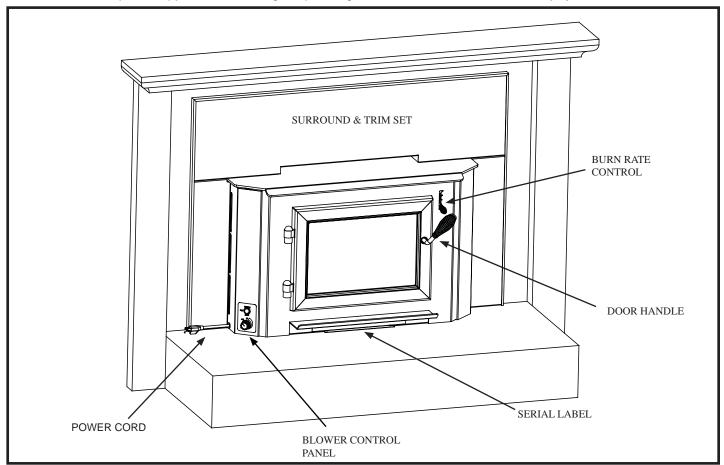
#### High temperatures may ignite clothing or other flammable materials.

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

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

#### A. Your Wood Appliance

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



**Figure 7.1 General Operating Parts** 

#### **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.
- A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.
- A CO detector should be installed in the room with the appliance.
- 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.

#### C. Overfiring

#### WARNING! Risk of Fire!

Do not over-fire.

Over-firing may ignite creosote or will damage the stove and chimney.

To prevent over-firing your stove, DO NOT:

- Use flammable liquids
- · Overload with wood
- Burn trash or large amounts of scrap lumber
- · Permit too much air to the fire

#### 1. Symptoms of Over-Firing

Symptoms of over-firing may include one or more of the following:

- · Chimney connector or appliance glowing
- · Roaring, rumbling noises
- · Loud cracking or banging sounds
- Metal warping
- · Chimney fire

#### 2. What To Do if Your Stove is Over-Firing

- Immediately <u>close the door and air controls</u> to reduce air supply to the fire.
- If you suspect a chimney fire, call the fire department and evacuate your house.
- Contact your local chimney professional and have your stove and stove pipe inspected for any damage.
- Do not use your stove until the chimney professional informs you it is safe to do so.

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

- Warped air tube
- · Deteriorated refractory brick retainers
- Deteriorated baffle and other interior components

#### D. Combustible/Non-combustible Materials

#### Combustible Material

Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame-proofed or not, plastered or unplastered.

#### Non-combustible Material

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, slate, glass or plasters, or any combination thereof.

#### Non-combustible Sealant Material

Sealants which will not ignite and burn: Rutland, Inc. Fireplace Mortar #63, Rutland 76R, Nuflex 304, GE RTV106 or GE RTB116 (or equivalent).

#### E. Seasoned Wood

Burn only dry seasoned wood.

- · Store wood under cover, out of the rain and snow.
- Dry and well-seasoned wood will not only minimize the chance of creosote formation, but will give you the most efficient fire.
- Even dry wood contains at least 15% moisture by weight, and should be burned hot enough to keep the chimney hot for as long as it takes to dry the wood out - about one hour.
- It is a waste of energy to burn unseasoned wood of any kind

Dead wood lying on the forest floor should be considered wet, and requires full seasoning time.

- Standing dead wood can be considered to be about 2/3 seasoned.
- To tell if wood is dry enough to burn, check the ends of the logs.
- If there are cracks radiating in all directions from the center, it is dry.
- If your wood sizzles in the fire, even though the surface is dry, it may not be fully cured.

#### F. Chimney 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

#### **G. Burning Process**

In recent years there has been an increasing concern about air quality. Much of the blame for poor air quality has been placed on the burning of wood for home heating.

In order to improve the situation, we have developed cleanerburning wood appliances that surpass the requirements for emissions established by our governing agencies.

These wood appliances must be properly operated in order to ensure that they perform the way they are designed to perform.

**NOTICE:** Improper operation can turn any wood appliance into a smoldering environmental hazard.

#### 1. Kindling or First Stage

It helps to know a little about the actual process of burning in order to understand what goes on inside the appliance. The first stage of burning is called the kindling stage.

In this stage:

- Wood is heated to a temperature high enough to evaporate the moisture present in all wood.
- Wood will reach the boiling point of water (212°F) and will not get any hotter until the water is evaporated.

This process takes heat from the coals and tends to cool the appliance.

Fire requires three things to burn:

- Fuel
- Air
- Heat

If heat is robbed from the appliance during the drying stage, the new load of wood has reduced the chances for a good clean burn.

It is always best to burn dry, seasoned firewood. When the wood isn't dry, you must open the air controls and burn at a high burn setting for a longer time to start it burning.

The heat generated from the fire should be warming your home and establishing the flue draft, not evaporating the moisture out of wet, unseasoned wood, resulting in wasted heat.

#### 2. Second Stage

In the secondary stage wood gives off flammable gases which burn above the fuel with bright flames.

During this stage of burning:

- The flames must be maintained and not allowed to go out to ensure the cleanest possible fire.
- If the flames tend to go out, it is set too low for your burning conditions.

The air control located at the upper right hand corner is used to adjust for burn rates. This is called the <u>Burn Rate Air Control</u>. **Figure 10.1 on page 10.** 

#### 3. Final Stage

The final stage of burning is the charcoal stage. This occurs when the flammable gases have been mostly burned and only charcoal remains. This is a naturally clean portion of the burn. The coals burn with hot blue flames.

- It is very important to reload your appliance while enough lively hot coals remain in order to provide the amount of heat needed to dry and rekindle the next load of wood.
- It is best to open the Burn Rate Air Control before reloading. This livens up the coalbed and reduces excessive emissions (opacity/smoke). Figure 10.1 on page 10.
- Open door slowly so that ash or smoke does not exit appliance through opening.
- Break up any large chunks and distribute the coals so that the new wood is laid on hot coals.

Air quality is important to all of us, and if we choose to use wood to heat our homes we should do so responsibly.

We need to learn to burn in the cleanest way possible allowing us to continue using our wood appliances for many years to come.

#### H. Burn Rate Air Control

- The air supply enters at the upper front of the firebox, near the top of the glass door.
- This preheated air supplies the necessary fresh oxygen to mix with the unburned gases, helping to create second, third and fourth combustions
- This air is regulated by the Burn Rate Air Control.
- There are four settings High, Medium-High, Medium-Low and Low.
- When the control is raised all the way up it is on the High setting and when pushed all the down it is on the Low setting. Figure 10.1.

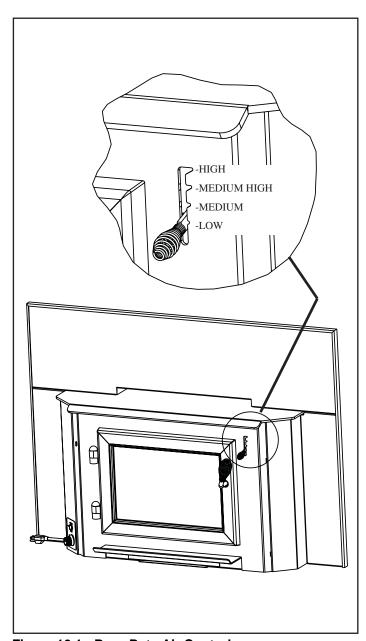


Figure 10.1 - Burn Rate Air Control

#### I. Burn Rates and Operating Efficiency

This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.

#### For maximum operating efficiency

- 1. Follow the instructions below for each burn rate for the Burn Rate Air Control. **Figure 10.1.**
- 2. Burn dry, well-seasoned wood.

#### **Burn Rates**

#### 1. Starting a Fire

- Open the Burn Rate Air Control by raising it all the way to the top for the High setting.
- The blower tends to cool the appliance. Leave the blower off until the burn is well established, i.e., 30 minutes.
- After loading the appliance with wood and starting the fire, set the Burn Rate Air Controls to the desired setting by following the burn rate instructions below.

#### 2. High Burn Rate - Maximum Heat\* - 30,000+ BTU/hr

- Raise the Burn Rate Air Control all the way up until it stops (top marker) to a fully open position.
- Be sure and monitor the fire closely while in this setting to avoid overfiring your stove.

#### 3. Medium-High Burn Rate\* - 15,000 to 30,000 BTU/hr

 Raise the Burn Rate Air Control to the Medium High marker. Blower may remain on.

#### 4. Medium-Low Burn Rate\* - 10,000 to 15,000 BTU/hr

Raise the Burn Rate Air Control to the Medium marker.
 Leave the blower off until the burn is well established, i.e.,
 30 minutes.

#### 5. Low Burn Rate\* - Below 10,000 BTU/hr

Leave the Burn Rate Air Control at the bottom marker.
 Leave the blower off until the burn is well established, i.e.,
 30 minutes.

**\*NOTE:** These are approximate settings, and will vary with type of wood or chimney draft. Due to altitude and other environmental circumstances, this operational information is a guideline only.

#### J. Correct Baffle & Blanket Placement

### **WARNING**

#### Fire Risk

mproper baffle placement may cause:

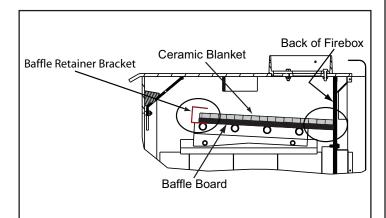
- Overheating of firebox
- · Overheating the chimney

Baffle must be placed properly (see instructions) Replace baffle if damaged or missing.

**NOTE:** A missing, damaged or improperly positioned baffle is dangerous and may cause damage and poor efficiency. It will also void your warranty.

**Note:** This are generic drawings and may not represent your specific model.

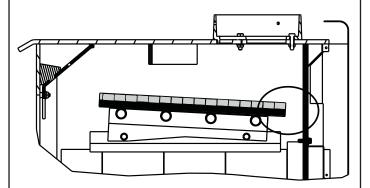
### **CORRECT POSITION**



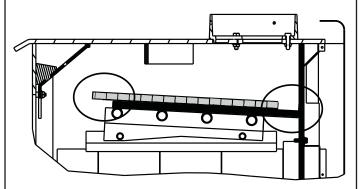
Ceramic Blanket and Baffle Board MUST be in contact with the back of the firebox and even with each other in the front.

Figure 11.1 - Correct Baffle and Blanket Positions

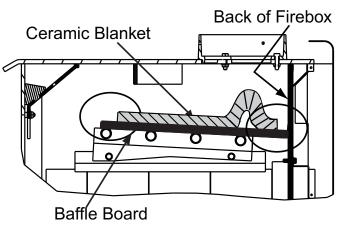
#### **INCORRECT POSITIONS**



Ceramic Blanket and Baffle Board are NOT in contact with the back of the firebox.



Ceramic Blanket is NOT in contact with the back of the firebox and NOT even with the Baffle Board in the front.



Ceramic Blanket is bunched up at the back of the firebox and NOT even with the Baffle Board in the front.

Figure 11.2 - Incorrect Baffle and Blanket Positions

#### K. Building A Fire



### **A** WARNING

#### Fire Risk.

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance's vicinity.
- DO NOT USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS HEATER.
- Keep all such liquids well away from the heater while it is in use.
- · Combustible materials may ignite.

Before lighting your first fire in the appliance:

- Confirm the baffle and ceramic blanket are correctly positioned. See page 11 for detailed diagrams. They should be even with the front tube and resting on both tubes. Figure 11.1.
- 2. Remove all labels from glass.

There are many ways to build a fire. The basic principle is to light easily-ignitable tinder or paper, which ignites the fast burning kindling, which in turn ignites the slow-burning firewood. Here is one method that works well:

- 1. Raise the Burn Rate Air Control to the High Setting.
- Place several wads of crushed paper on the firebox floor.
   Heating the flue with slightly crumpled newspaper before adding kindling keeps smoke to a minimum.
- 3. Lay small dry sticks of kindling on top of the paper.
- Make sure that no matches or other combustibles are in the immediate area of the appliance. Be sure the room is ventilated and the flue unobstructed.
- Light the paper in the appliance. NEVER light or rekindle fire with kerosene, gasoline, or charcoal lighter fluid; the results can be fatal.
- 6. Once the kindling is burning quickly, add several full-length logs 3 to 4 inches (76 to 102mm) in diameter. Be careful not to smother the fire. Stack the pieces of wood 1/2 inch to 1 inch apart; near enough to keep each other hot, but far enough away from each other to allow air flow between them.
- Once there is an established bed of coals, set the Burn Rate Air Control to the desired setting following the instructions found in the Section: Burn Rates and Operating Efficiency.
- If you have installed the optional blower, please note that the blower tends to cool the appliance. Leave the blower off until the burn is well established, i.e., 30 minutes.

- When ready to reload, It is best to set the Burn Rate Air Control in the High position before reloading.
- This livens up the coalbed and reduces excessive emissions (opacity/smoke).
- Open door slowly so that ash or smoke does not exit appliance through opening.
- Large logs burn slowly, holding a fire longer.
- Small logs burn fast and hot, giving quick heat.
- 10. As long as there are hot coals, repeating steps 6 through 8 will maintain a continuous fire throughout the season.

#### NOTE:

- · Build fire on brick firebox floor only.
- Do NOT use grates or other methods to support fuel.
   It will adversely affect emissions.

### **CAUTION**

Odors and vapors released during initial operation.

- · Curing of high temperature paint.
- · Open windows for air circulation.

Odors may be irritating to sensitive individuals.

#### L. Wood Fuel & Storage



## **WARNING**

- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPTHA OR ENGINE OIL.
- DO NOT USE CHEMICALS OR FLUIDS TO START A FIRE.
- Do NOT burn treated wood or wood with salt (driftwood).
- May generate carbon monooxide if burn material other than wood.

May result in illness or possible death.

#### Hardwood vs Softwood

Your appliance performance depends on the quality of the firewood vou 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 softwood to bring the appliance up to operating temperature and to establish draft.
- Add hardwood for slow, even heat and longer burn time.

Aspen

Alder

Soft woods	Hard woods
Douglas Fir	<ul> <li>Oak</li> </ul>
• Pine	<ul> <li>Maple</li> </ul>
Spruce	<ul> <li>Apple</li> </ul>
• Cedar	<ul> <li>Birch</li> </ul>
	<ul> <li>Poplar</li> </ul>
1	_

#### **Processed Solid Fuel Fire Logs**

NOT permitted for use in this appliance

#### **Moisture**

The majority of the problems appliance 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
- Causes evaporating moisture which cools your chimney, accelerating formation of creosote.



#### **WARNING**

#### Fire Risk.

- Do NOT burn wet or green wood.
- Store wood in dry location.
- Stack wood so both ends are exposed to air. Wet, unseasoned wood can cause accumulation of creosote.

#### **Seasoned Wood**

- Cut logs to size
- Split to 6 inches (152 mm) or less in diameter
- Air dry to a moisture content of not more than 20%
  - Soft wood about nine months to dry
  - Hard wood about eighteen months to dry

**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 piece are exposed to air. More drying occurs through the cut ends than the sides.
- Store wood under cover to prevent water absorption from rain or snow. Avoid covering the sides and ends completely.



## WARNING

#### Fire Risk

Do NOT store wood:

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

### M. Blower Control Box & Snap Disc Operating Instructions

- 1. The blower will turn on/off automatically when set to AUTO. **Figure 14.1.**
- 2. When set to MANUAL, the fan will turn on/off only when you turn it on or off. This setting over-rides the internal snap disc.
- 3. Blower Controls are located on bottom left of appliance.

#### N. Blower Operating Instructions

- Initial (cold) startup: Raise the Burn Rate Air Control all the way up to the High setting. The blower tends to cool the appliance. Leave the blower off until the burn is well established, i.e., 30 minutes.
- 2. **High Burn Setting:** Raise the Burn Rate Air Control all the way up to the High setting. The blower may remain on.
- Medium or Medium High Burn Setting: Burn Rate Air Control is closed then opened to 1 inch (pull up). The blower may remain on.
- 4. **Medium Low Burn Setting:** Burn Rate Air Control is closed then opened to 1/4 inch to 1/2 inch (pull up). Leave the blower off for the first 30 minutes until the burn is well established.
- Low Burn Setting: Burn Rate Air Control is closed (down position). Leave the blower off for the first 30 minutes until the burn is well established.

**NOTE:** For maximum efficiency and lowest emissions, when operating the blower in either the automatic or manual setting for the low and medium low burn settings leave the blower off until the burn is well established, i.e., 30 minutes.

When reloading the appliance, raise the Burn Rate Air Control all the wall to the High setting for 5 to 15 minutes before setting to the desired burn rate.

6. The blower is equipped with a rheostat (speed control). The highest blower speed is obtained by turning the rheostat on, then adjusting back towards "OFF" as far as possible without turning the blower off. For a low blower speed, turn the control knob clockwise as far as possible

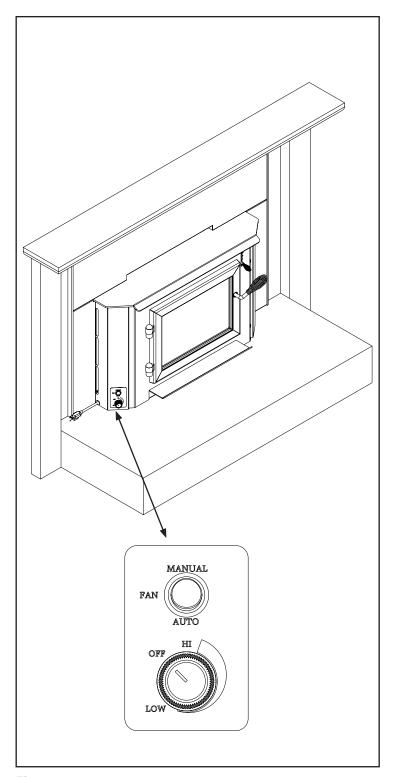


Figure 14.1

#### O. Clear Space

• Do NOT place combustible objects within 4 ft (1.2 m) of the front of fireplace. **Figure 15.1**.



- Do NOT place combustible objects within 48 inches in front of the appliance.
- High temperatures may ignite clothing, furniture or draperies.

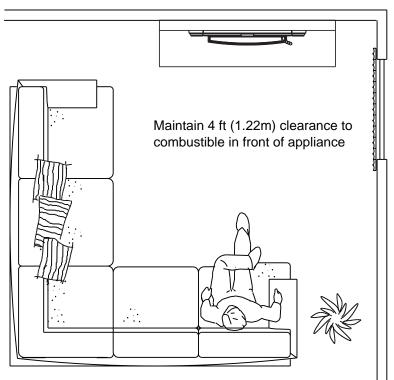
### Q. Opacity (Smoke)

Opacity is the measure of how cleanly your appliance is burning.

Opacity is measured in percent:

- 100% opacity is when an object is totally obscured by the smoke column from a chimney, and
- 0% opacity means that no smoke column can be seen.

As you become familiar with your appliance, you should periodically check the opacity. This will allow you to know how to burn as nearly smoke-free as possible (goal of 0% opacity).



**NOTICE!** 

Do NOT operate a circulating fan within close proximity, approximately 4 ft (1.2m), of appliance

- Can reverse air flow, blowing hot air into appliance cavity.
- Can damage appliance blower due to overheating.

Figure 15.1 - Clear Space

### P. Frequently Asked Questions

ISSUES	SOLUTIONS
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.
Whirring sound	The blower may produce a whirring sound which increases in volume as the speed is increased.

#### **CAUTION**

Odors and vapors released during initial operation.

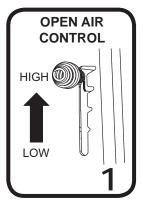
- Curing of high temperature paint.
- · Open windows for air circulation.

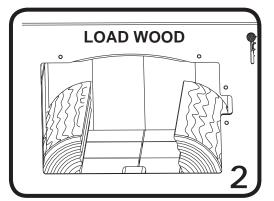
Odors may be irritating to sensitive individuals.

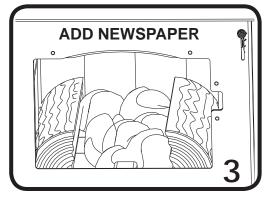
#### R. Quick Start Guide

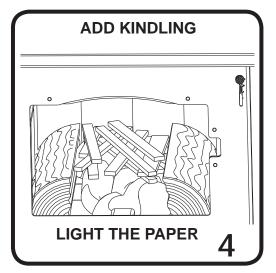
**Note:** This are generic drawings and may not represent your specific model.

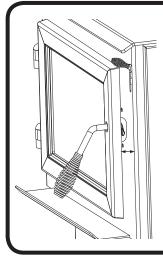
**FIRST FIRE ITEMS NEEDED:** 10 Pieces of Newspaper, 10-20 Pieces of Dry Kindling and a Few Pieces of Dry Split Wood.











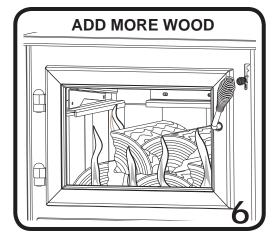
### **WARNING!** Risk of Fire

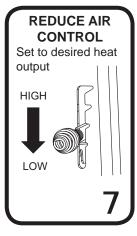
Close and securely latch the door after the fire has started, and after refueling, to prevent:

- Spillage of smoke, flame and carbon monoxide
- Spillage of sparks, coals and logs
- Over-firing

DO NOT leave the stove unattended with the door open.

Starting a fire may not require an open door for draft. The air control should supply adequate draft.





The stove is ready for normal operation.

### **Maintenance and Service**

#### A. Disposal of Ashes

- Frequency: When ash is within 1-3/4 inch (44mm) of firebox lip. Leave 1/4 to 1/2 inch (6-13mm) of ash in the bottom of the firebox.
- 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 and Chimney Connector Inspection/Cleaning

- **Frequency:** Every 2 months during heating season or as recommended by a certified chimney sweep; more frequently if chimney exceeds or is under 14-16 ft (4.3-4.8m). (measured from bottom of appliance).
- By: Certified Chimney Sweep

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

- Remove all ash from the firebox and extinguish all hot embers before disposal.
- Allow the appliance to cool completely.
- Disconnect flue pipe or remove baffle and ceramic blanket from appliance before cleaning chimney. Otherwise residue can pile up on top of the baffle and ceramic blanket. (See Baffle Removal on page 23).
- Close the door tightly.
- The creosote or soot should be removed with a brush specifically designed for the type of chimney in use.
- Clean out fallen ashes from the firebox.
- It is also recommended that before each heating season the entire system be professionally inspected, cleaned and repaired if necessary.

#### WARNING! Risk of Fire!

Do not use chimney cleaners or flame colorants in your appliance. It will corrode your pipe.

#### Creosote - Formation and Need for Removal

- When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote.
- The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire.
- As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.
- The chimney and chimney connector shall be inspected every two months 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. Appliance Inspection - Routine

- Frequency: Every 2 months at the same time the chimney and chimney connector are inspected.
- By: Homeowner

#### Check for:

- · Cracks in glass
- · Door handle smooth cam operation
- Baffle and ceramic blanket correct placement
- Baffle for cracks
- · Firebrick for cracks, broken or crumbly
- Door gasket. (Dollar bill test). Place a dollar bill between the stove and the door and then shut the door. If you can pull the dollar bill out, remove one spacing washer from the door handle behind the latch cam and try the test again. See Figure 23.3 on page 23. If you can still pull the dollar bill out, replace the door gasket.
- Glass frame for loose screws

#### D. Glass Cleaning

- Frequency: As desired
- By: Homeowner
- Clean glass with a non-abrasive glass cleaner. Abrasive cleaners may scratch and cause glass to crack.
- If the deposits on the glass are not very heavy, normal glass cleaners work well. Heavier deposits may be removed by using a damp cloth dipped in wood ashes or by using a commercially available oven cleaner.
- After using an oven cleaner, it is advisable to remove any residue with a glass cleaner or soap and water. Oven cleaner left on during the next firing can permanently stain the glass and damage the finish on plated metal surfaces.
- A portion of the combustion air entering the firebox is deflected down over the inside of the door glass.
- This air flow "washes" the glass, helping to keep smoke from adhering to its surface.
- When operated at a low burn rate, less air will be flowing over the glass and the smoky, relatively cool condition of a low fire will cause the glass to become coated.
- Operating the appliance with the Burn Rate Air Control all the way open for 15-20 minutes should remove the built up coating.

## 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

# E. Inspect Firebrick & Replacement Instructions

- Frequency: After each ash removal
- By: Homeowner

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

The firebox is lined with firebrick, which has exceptional insulating properties. Do not use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

- After the coals have completely cooled, remove all old brick and ash from unit and vacuum firebox.
- 2. Remove new brick set from box and lay out to the diagram shown in the instructions that come with the replacement brick set.
- 3. Lay bottom bricks in unit.
- 4. Install rear bricks on the top of the bottom bricks.
- 5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the unit.

Use Part 832-0550 when ordering individual brick. Provide brick dimension or copy the page in the service parts list, mark the desired brick and take it to your authorized dealer.

#### F. Quick Reference Maintenance Guide

**CAUTION!** Allow the appliance to completely cool down before performing any cleaning or maintenance.

Start the first inspection after the first 2 months of use, or if performance changes, and adjust your schedule accordingly. Maintenance is required for safe operation and must be performed to maintain your warranty.

Baffle & Blanket	Frequency	Task
Barrie & Blanket  Blanket  Baffle	MONTHLY, After Every Cord of Wood, OR After Each Cleaning	Baffle and blanket placement is critical to heat output, efficiency and overall life of the unit. Make sure the baffle is pushed all of the way to the back of the firebox and the blanket is laying flat. Inspect baffle for cracks.
Optional Blower	YEARLY	Vacuum the blower impellers.
Chimney System	EVERY 2 MONTHS or After Every 2 Cords of Wood	The chimney and chimney cap must be inspected for soot and creosote every two months during the burn season or more frequency if chimney exceeds or is under 14-16 ft (4.3m-4.8m) measured from bottom of appliance.  This will prevent pipe blockage, poor draft, and chimney fires.  Always burn dry wood to help prevent cap blockage and creosote build-up.
Firebrick & Ash Removal	WEEKLY or After Every 25 Loads of Wood	Ashes must be cool before you can dispose of the ashes in a non-combustible container.  Firebrick is designed to protect your firebox. After ashes are removed, inspect the firebrick and replace firebricks that are crumbling, cracked or broken.
Door & Glass Assemblies	WEEKLY or After Every 25 Loads of Wood	Keep door and glass gasket in good shape to maintain good burn times on a low burn setting. To test: place a dollar bill between the stove and door and then shut the door. If you can pull the dollar out, remove one washer from door handle behind latch cam and try again. If you can still pull it out, replace the door gasket.  Check the glass frame for loose screws to prevent air leakage. Check glass for cracks.
Door Handle	YEARLY	Check the door latch for proper adjustment. This is very important especially after the door rope has formed to the stove face.  Check door handle for smooth cam operation.

These are generic drawings and may not represent your model.



## **Troubleshooting Guide**

With proper installation, operation, and maintenance your woodstove will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist you or a qualified service person in the diagnosis of a problem and the corrective action to be taken.

Start Fire Problems	Possible Cause	Solution
Can not get fire started Excessive smoke or spillage Burns too slowly Not enough heat output	Not enough kindling/paper or no kindling/paper	Use dry kindling, more paper. Arrange kindling & wood for air movement.
		Check for restricted termination cap
		Check for blockage of outside air kit (if installed).
		Check for flue blockage.
	Not enough air for fire to ignite	Pre-warm flue before starting fire (refer to Building a Fire Section).
		Check for adequate vent height (refer to Chimney Height Section).
		Open window below the appliance towards the wind.
	Wood condition is too wet, too large	Use dry, seasoned wood (refer to Seasoned Wood Section).
	Bed of coals not established before adding wood	Start with paper & kindling to establish bed of coals (refer to Building a 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 appliance towards the wind.
Fire burns too fast		Mix in hardwood.
	Extremely dry or soft wood	Mix in less seasoned wood after fire is established (refer to Wood Fuel Section).
	Our and a fitting	Check for correct vent height; too much vertical height creates overdrafting.
	Overdrafting	Check location of vent termination (refer to Chimney Termination Requirement Section).

#### UNPLUG APPLIANCE FROM ANY POWER SOURCE BEFORE REPLACING ANY COMPONENTS

#### A. Glass Replacement

#### (Replace with 5mm ceramic glass only)

- 1. Ensure that the fire is out and the appliance is cool to the touch.
- Protect a table or counter top with padding or towels. Protect your hands and wear gloves to prevent injury.
- Remove the door with the broken glass by lifting the door up and off of the hinges.
- Lay door face down on a table or counter making sure the handle hangs over the edge so the door lays flat, on a soft surface.
- Remove the screws from each glass retainer and remove the glass. (If screws are difficult to remove, soak with penetrating oil first).
- Center the glass with edges evenly overlapping the opening in the door, (i.e. same space top and bottom, left and right sides).
- 7. Replace the glass retainers. Be careful not to cross thread the screws.
- 8. Tighten each retainer just a few turns until each is secured. Check again for centering of glass in door frame. Continue to tighten each retainer alternately, a few turns at a time, until the glass is secure. <a href="DO NOT OVERTIGHTEN">DO NOT OVERTIGHTEN</a> can cause glass to break.
- 9. Replace the door on the appliance.

#### WARNING! Risk of Fire or Injury!

Use only glass that is specified in the manual, DO NOT replace with any other material. Glass breakage will occur.

#### **CAUTION!**

Handle glass with care.

- · Inspect the gasket to ensure it is undamaged.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass & door assembly removed.
- Do NOT operate with glass cracked, broken or scratched.

Heatilator appliances are equipped with ceramic super heatresistant glass, which can only be broken by impact or misuse.

#### **B. Snap Disc Replacement**

- 1. Remove surround from unit.
- Using a phillips head screwdriver, remove 8-32 screw, washer and bushing assemblies holding left side panel in place. Remove panel. Figure 21.1

#### B. Snap Disc Replacement (Cont;d)

- Slide snap disc out of bracket and unplug from wire harness.
- 4. Reinstall in reverse order.

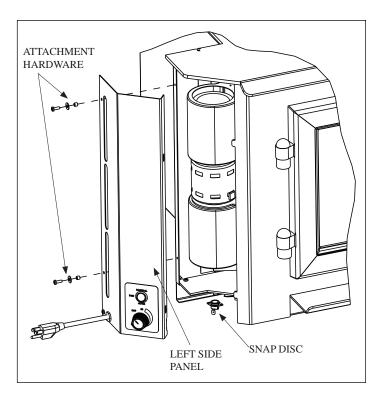


Figure 21.1 Snap Disc Location

#### C. Wiring Diagram

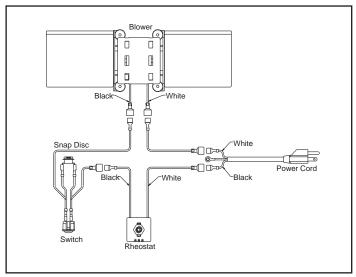


Figure 21.2

#### D. Blower Replacement

- 1. Remove surround from unit.
- Using a phillips head screwdriver, remove 8-32 screw, washer and bushing assemblies holding left side panel in place. Remove panel. Figure 21.1 on page 21
- 3. Disconnect the wires from the blower.
- 4. Remove three wing nuts as shown. Figure 22.1
- 5. Remove blower assembly from unit
- 6. Using phillips head screwdriver, remove two 8-32 sheetmetal holding the blower mount bracket to the blower shield. **Figure 22.2**
- 7. Remove four 8-32 machine screws holding blower to blower mount bracket.
- 8. Re-install in reverse order. Be certain that the hold down bracket's screws are completely seated in the gromments and insulation board is place properly.

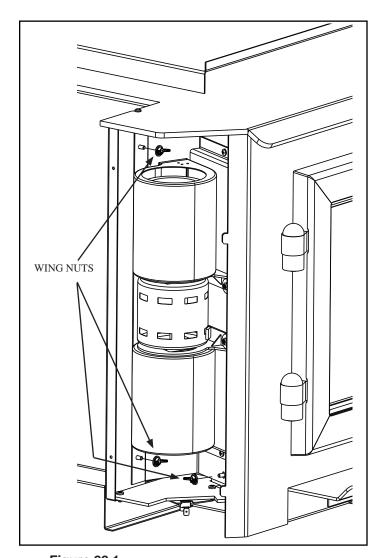


Figure 22.1

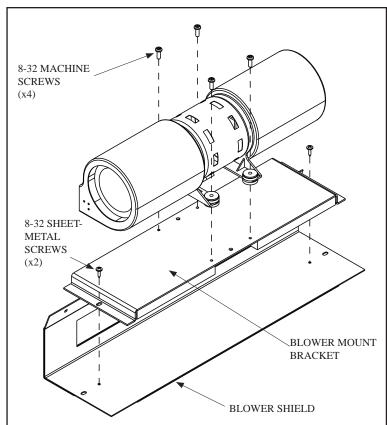


Figure 22.2



## A CAUTION

#### Shock Risk.

- Do NOT remove grounding prong from plug.
- Plug directly into properly grounded 3 prong receptacle.
- Route cord away from appliance.
- · Do NOT route cord under or in front of appliance.



### A

#### **WARNING**

#### Fire Risk.

Do NOT allow hot coals or embers to overflow ash lip

 May melt protective wire coating on fan power cord causing electrical short, fire or injury

#### E. Baffle & Ceramic Blanket Removal

- 1. Remove all ash from the firebox, and extinguish all hot embers before disposal into a metal container.
- 2. Remove the baffle protection channel by rotating it down from the front tube. **Figure 23.1.**
- 3. The baffle board has 2 pieces. With the ceramic blanket still in place, slide one baffle piece over the top of other one and pull out top piece through the door opening and then remove bottom baffle piece. **Figure 23.2.**
- 4. Remove the ceramic blanket.
- 5. Re-install the ceramic blanket and smooth out the blanket.
- Slide the baffle pieces one piece at a time underneath the blanket. Be sure the baffle boards are even with the front manifold tube and is resting on all tubes. Figure 23.1 and 23.2.
- Re-install the baffle protection channel by rotating it up and around the front tube so the bottom flange of the channel rests behind the manifold tube. The baffle boards and blanket are tucked inside the rear of the baffle protection channel.

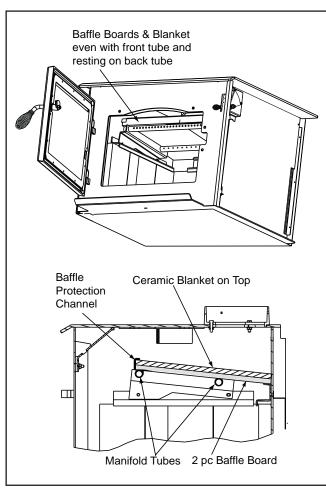


Figure 23.1

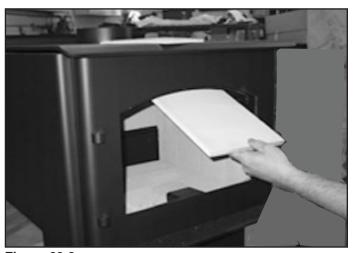


Figure 23.2

#### F. Door Handle Assembly

- 1. Install washer on door handle shaft.
- 2. Slide door handle through door.
- 3. Install additional washer(s) as shown in Figure 23.3.
- 4. Install key in groove.
- Align groove in latch cam with key; slide latch cam over shaft
- 6. Install locknut but do not overtighten, the handle needs to move smoothly.
- 7. Install handle turning in a counter-clockwise motion to desired location on door handle rod. **Figure 23.3.**

**CAUTION!** Do not overtighten lock nut. The door handle needs to move smoothly.

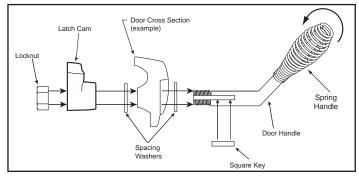


Figure 23.3

#### **G.** Tube Channel Assembly Replacement

#### Removing Tube Channel Assembly

- 1. Remove the right side bricks (3 pieces).
- 2. Remove the baffle protection channel by rolling forward and out of the firebox.
- 3. Locate the 3 channel nuts inside of chamber and remove using a 7/16 socket wrench.
- NOTE: Soak the bolts with penetrating oil for at least 15 minutes before trying to remove them.
- 4. Slide the tube channel assembly all the way to left until it

- is off the threads. Drop the right side down, then slide the assembly back to right.
- The ceramic blanket and both baffle boards can be removed at the same time you remove the tube channel assembly.
- 6. When the tube channel assembly is free of the left side support, rotate clockwise and pull assembly, blanket and baffles out through the front opening.
- 7. Re-install in reverse order.

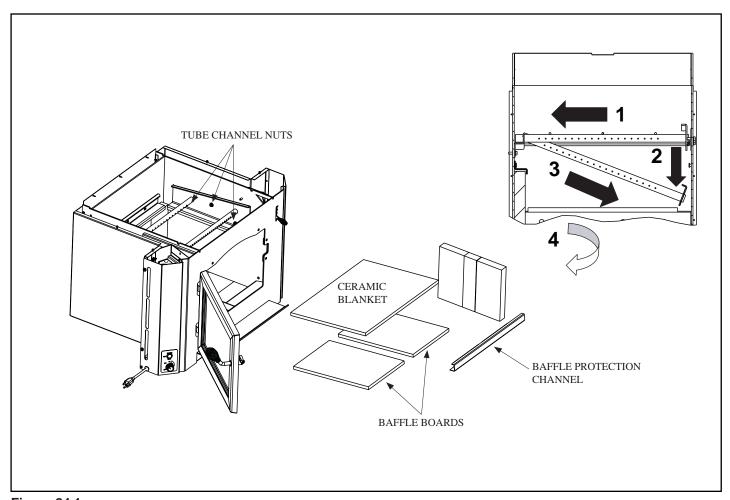


Figure 24.1

# Installer's Guide

# 6 Getting Started

### A. Design and Installation Considerations

#### **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.

Heatilator wood inserts are designed for factory-built noncombustible fireplaces that have been installed in accordance with the National, Provincial, State and local building codes.

- 1. Prior to installing the wood insert:
- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Heart & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minmum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.
- 2. Prior to installing, determine the following:
- Type of chimney connector to be used
  - $\cdot$  single wall, 6 inch (152mm) diameter, stainless steel, or
  - · double wall, 6 inch (152mm) diameter, stainless steel
- Consult pages 31 and 32 for clearances to combustibles
- · Power outlet located close by for optional blower

### $\Lambda$

#### WARNING

Asphyxiation Risk.

- DO NOT CONNECT THIS UNIT 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. Draft

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

Considerations for successful draft include:

- · Preventing negative pressure
- Location of appliance and chimney

To be sure that your appliance burns properly:

- During a low burn, the chimney draft (static pressure) should be approximately -.04 inch water column (W.C.)
- During a high burn the chimney draft should be approximately
   -.10 inch (W.C.)
- Measure the W.C at 6 inches (152mm) above the top of the appliance after one hour of operation at each burn setting.

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

- Inadequate draft due to environmental conditions
- Downdrafts
- · Tight sealing construction of the structure
- Mechanical exhausting devices
- Overdrafting caused by excessive chimney heights
- Ideal performance is with height of chimney between 14-16 feet (4.26-4.88m) measured from the base of the appliance.



### A

#### 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 unit).
- Do NOT Overfire If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

#### 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 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 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

#### D. Locating Your Appliance & Chimney

Location of the appliance and chimney will affect performance. As shown in **Figure 27.1** 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.

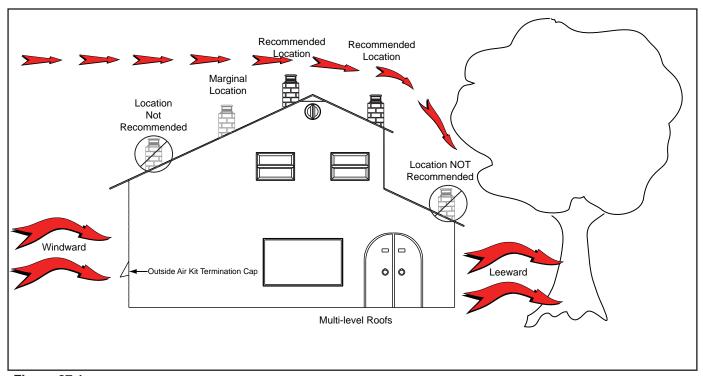


Figure 27.1

### E. Chimney Termination Requirements

Follow manufacturer's instructions for clearance, securing flashing and terminating the chimney.

- 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 (91cm) above the roof and at least 2 feet (61cm) above any portion of the roof within 10 feet (305cm).
- · Must be located away from trees or other structures

**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

#### NOTICE:

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

#### F. 2-10-3 Rule

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

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

- 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.

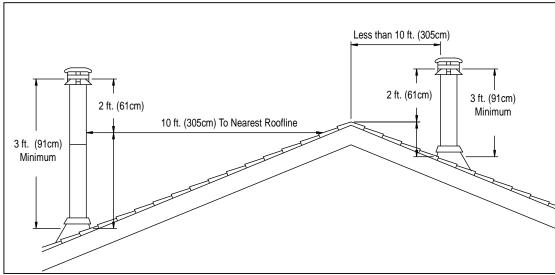


Figure 28.1 Pitched Roof

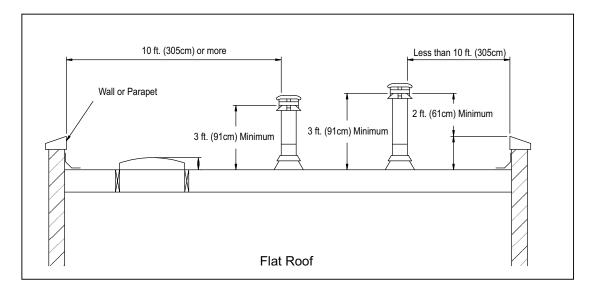


Figure 28.2

#### G. Tools And Supplies Needed

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

7/16 Socket	Framing materia	
Reciprocating saw	High temp caulking material I	
Pliers	Gloves	
Hammer	Framing square	
Phillips screwdriver	Electric drill and bits	
Flat blade screwdriver	Safety glasses	
Plumb line	Tape measure	
Level		
Wire Cutters to remove from pallet		
1/2-3/4 in. length, #6 or #8 self-drilling screws		
Misc. screws and nails		

#### H. 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.
- A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.

#### I. Inspect Appliance and Components

- Remove appliance and components from packaging and inspect for damage.
- Vent system components and surrounds 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.

#### **Pre-Burn Check List**

	1	
1.		Place the appliance in a location near the final installation area and follow the procedures below:
2.		Open the appliance and remove all the parts and articles packed inside the Component Pack. Inspect all the parts and glass for shipping damage. Contact your dealer if any irregularities are noticed.
3.		All safety warnings have been read and followed.
4.		This Owner's Manual has been read.
5.		Floor protection requirements have been met.
6.		Venting is properly installed per vent manufacturing instructions.
7.		The proper clearances from the appliance and chimney to combustible materials have been met.
8.		The masonry chimney is inspected by a professional and is clean, or the factory built metal chimney is installed according to the manufacturer's instructions and clearances.
9.		The chimney meets the required minimum height.
10.		All labels have been removed from the glass door.
11.		Plated surfaces have been wiped clean, if applicable.
12.		A power outlet is available nearby for use of the blower assembly.



### **A** 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.

## 7

A. Appliance Dimensions

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

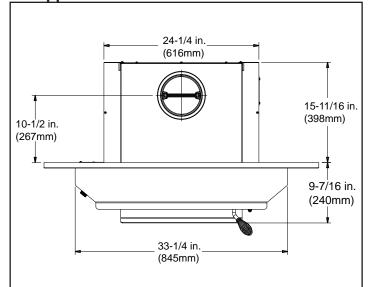


Figure 30.1 Top View

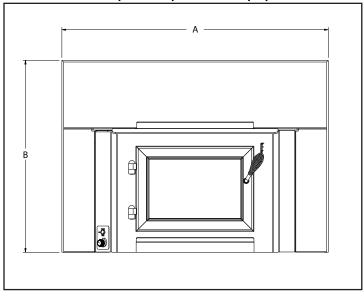


Figure 30.2 Front View with Surround

Surround Sizes	Α	В
Standard	43 in. (1092mm)	31 in. (787mm)
Large	51 in. (1295mm)	34 in. (864mm)

10-1/2 in.

(267mm)

5-3/16 in.

(132mm)

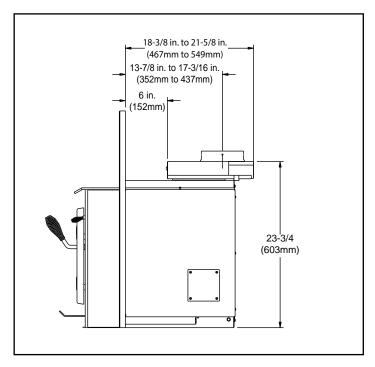


Figure 30.3 - Side View With Optional Flue Adapter

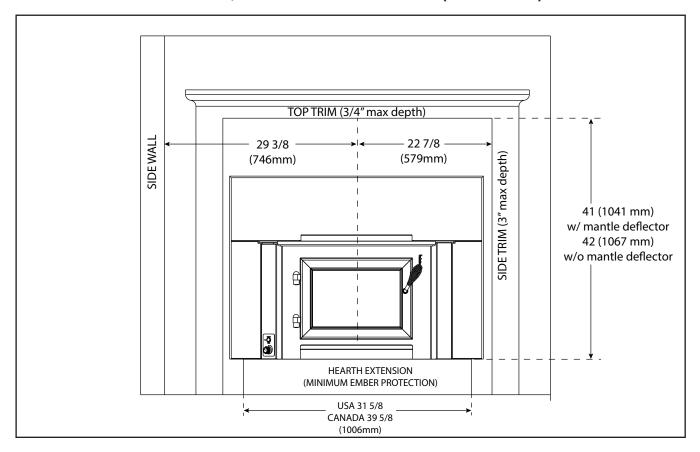
20 in. (508mm) 21-1/16 in. (534mm) 6-1/16 in. (154mm) 4-1/2 in. (114mm)

Figure 30.4 - Side View

7-5/16 in.

(186mm)

#### B. Clearances to Combustibles, United States and Canada (UL and ULC)





## **A** WARNING

#### Fire Risk.

- Comply with all minimum clearances to combustibles as specified.
- Failure to comply may cause house fire.



### **A** WARNING

#### Fire Risk.

- Do NOT operate appliance with the Mantel Heat Deflector removed when used for clearance reduction.
- Failure to comply may cause house fire.

NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction

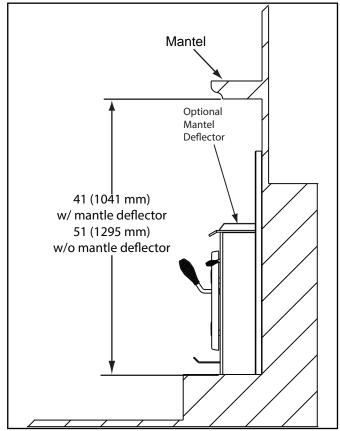


Figure 31.1 - Mantel Clearance

### Factory-Build Solid Fuel Fireplace Floor Protection Under Hearth Extension

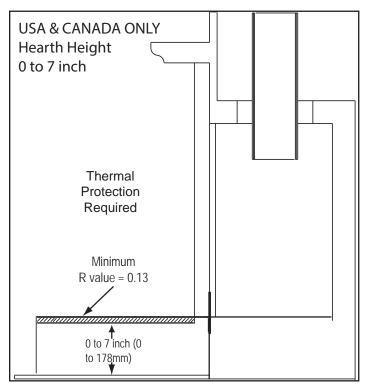


Figure 32.1 - Thermal Protection Required

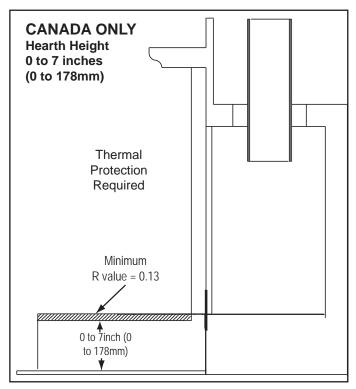


Figure 32.2 - Thermal Protection Required

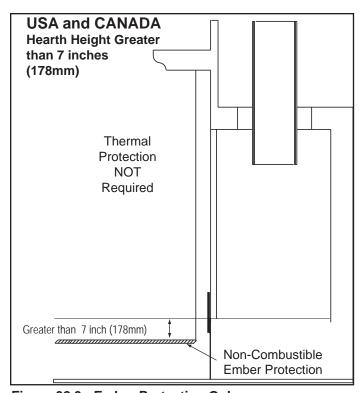


Figure 32.3 - Ember Protection Only

#### C. Alternate Floor Protection Calculation

#### Material

#### Thermal Conductivity: k value

The k value indicates the amount of heat (in BTU's) that will flow in 1 hour through 1 square foot of a uniform material 1 inch thick for each degree (F) of temperature difference from one side of the material to the other.

The LOWER the k factor means less heat is being conducted through the non-combustible material to the combustible material beneath it.

The k value of a material must be equal or smaller then the required k value to be acceptable.

(BTU) (inch) (foot² (hour) (°F)

#### Thermal Resistance: R value

The R value is a measure of a material's resistance to heat transfer.

R value is convenient when more than one material is used since you can add the R values together, whereas you can not do this for k value.

The HIGHER the R factor means less heat is being conducted through the non-combustible material to the combustible material beneath it.

The R value of a material must be equal or larger then the required R value to be acceptable.

#### **Conversion Procedure**

- 1. Convert specification to R-value
  - a. R-value given no conversion needed
- b. k-factor is given with a required thickness (T) in inches. [R = 1/k X T]
- c. K-factor is given with a required thickness (T) in inches. [R =  $(1/K \times 12) \times T$ ]
- d. r-factor is given with a required thickness (T) in inches. [R = r X T]  $\,$
- 2. Determine the R-value of the proposed alternate floor protector
- a. Use the formula in step 1 to convert values not expressed as "R".
- b. For multiple layers, add R-values of each layer to determine overall R-value.
- 3. If the overall R-value of the system is greater than the R-value of the specified floor protector, the alternate is acceptable.

# 8

### **Chimney Systems**

#### A. Venting Systems

#### **Chimney Connector:**

It is also known as flue pipe or liner. It must be 6 inches (152mm) minimum diameter stainless steel liner meeting minimum standards of UL1777.

#### Chimney:

The chimney can be new or existing, masonry or prefabricated and must meet the following minimum requirements as specified below.

#### WARNING! Risk of Fire!

Follow venting manufacturer's clearances and instructions when installing venting system.

#### **B.** Inspections

Existing chimneys should be inspected and cleaned by a qualified professional prior to installation. The chimney must not have cracks, loose mortar or other signs of deterioration and blockage. Hearth & Home recommends a NFI or CSIA certified professional or a technician, under the direction of a certified professional, conduct a Level II inspection per NFPA 211.



### **A** WARNING

Fire Risk

Inspection of Chimney:

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

### C. Larger Chimneys

Hearth & Home recommends that chimneys with larger diameters than 6 inches (152mm) be fully relined. An oversized flue can affect draft and impair performance and will allow increased build-up of creosote which is why a full reline is stongly recommended.

**NOTICE:** Check with your local building authorities and/or consult the National Fire Protection Association (NFPA 211).

#### D. Masonry Chimney

- Must meet minimum standards of NFPA 211.
- Must have at least 5/8 inch (16mm) fireclay lining joined with refractory cement.

NOTE: Installations into a clay flue without a stainless steel liner may reduce draw which affects performance, will cause the glass to darken and produce excessive creosote and create start-up issues.

- The masonry wall of the chimney, if brick or modular block, must be a minimum of 4 inches (102mm) nominal thickness.
- A chimney of rubble stone must be at least 12 inches (305mm) thick.
- Cross-sectional area shall conform to NFPA 211-2006 Section 12.4.5.1.
- Should be lined with a 6 inch (152mm) stainless steel flue liner to improve performance and reduce creosote build-up and difficulty starting a fire.
- •An equivalent liner must be a listed chimney liner system or other approved material.
- No dilution air is allowed to enter the chimney.
  - Secure the fireplace damper in the open position. If this cannot be accomplished, it will be necessary to remove the damper
  - 2. Seal damper area of chimney around chimney connector with a high temperature sealant or seal insert against the face of the fireplace.
  - 3. Both methods must be removable and replaceable for cleaning and re-installation.
- When possible, install an airtight clean-out door to the rear of the smoke shelf.

**NOTE:** Masonry chimneys are significantly less than ideal for venting solid fuel appliances. A masonry chimney is not subject to any temperature limit test, therefore a full reline is strongly recommended.

#### **Masonry Chimney (Cont'd)**

This insert conforms with the UL 1482 and ULC S628 (Canada) in all respects, and is approved to UL & ULC safety standards for installation and use within a fireplace with a masonry chimney in accordance with NFPA 211 and CAN/CSA-B365-01.

In USA a minimum 5 foot length, 6 inch diameter flue liner is required as per UL 1482, however Hearth & Home Technologies <u>strongly</u> recommends a full reline for optimum performance.

**NOTE:** In Canada, this fireplace insert must be installed with a continuous chimney liner of a 6 inch (152mm) diameter extending from the fireplace insert to the the top of the chimney.

The chimney liner must conform to the Class 3 requirements of CAN/ULC-S635, Standard for Lining Systems for Existing Masonry or Factory-Built Chimneys and Vents, or CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys.

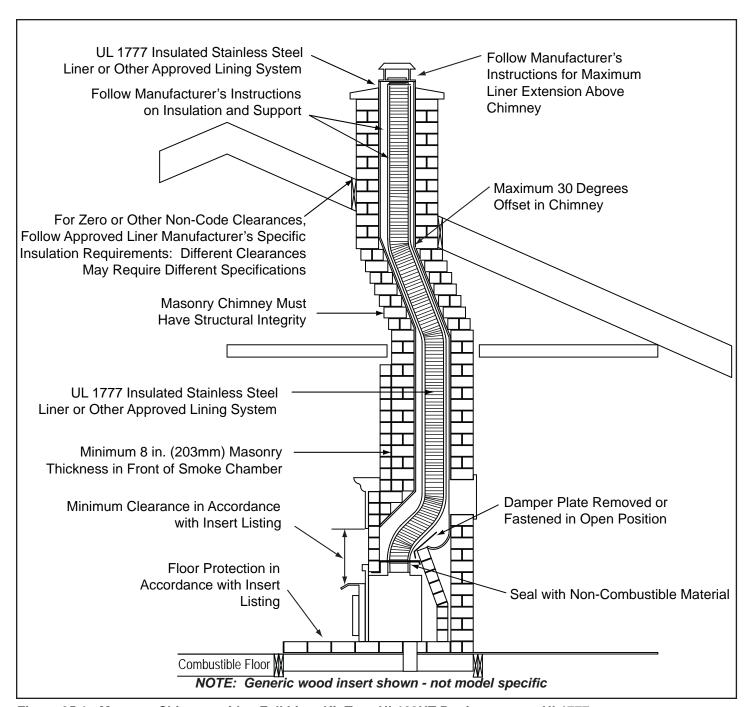


Figure 35.1 - Masonry Chimney with a Full Liner Kit Type UL103HT Rquirement per UL1777

#### E. Metal Heat Circulating Masonry

This insert conforms with the safety standard UL-1482 and ULC S628 (Canada) in all respects and is approved to UL & ULC safety standards for installation and use within a fireplace with masonry chimney, in accordance with NFPA 211, and CAN/CSA-B365-01.

#### F. Prefabricated Metal Chimney

The chimney can be new or existing, masonry or prefabricated and must meet the following minimum requirements:

- •Must be minimum 6 inch (152mm) inside diameter of high temperature chimney listed to UL 103 HT (2100°F) or ULC S628.
- Must use components required by the manufacturer for installation.
- Must maintain clearances required by the manufacturer for installation.
- •Refer to manufacturers instructions for installation
- •This insert is listed to UL 1482 Standard and is approved for installation into listed factory-built solid fuel fireplaces listed to UL 127 conforming to the following specifications and instructions:
- •The original factory-built clearance fireplace chimney cap must be re-installed after installing the approved chimney liner meeting type UL 103 HT requirements (2100°F) per UL 1777.
- •The liner must be securely attached to the insert flue collar and the chimney top.
- •The air flow of the factory-built solid fuel fireplace system must not be altered. The flue liner top support attachment must not reduce the air flow for the existing air-cooled chimney system.
- •No dilution air is allowed to enter the chimney.
  - 1. Secure the fireplace damper in the open position. If this cannot be accomplished, it will be necessary to remove the damper.
  - 2. Seal damper area of chimney around chimney connector with a high temperature sealant or seal insert against the face of the fireplace.
  - 3. Both methods must be removable and replaceable for cleaning and re-installation.

	Inches	Millimeters
Minimum Width of Cavity Opening - Front	24 1/2*	622*
Minimum Width of Cavity Opening - Rear	24 1/2*	622*
Minimum Height	21-1/2*	546*
Minimum Depth from Front to Rear	16*	467*

<sup>\*</sup>You will need to add additional clearances to these dimensions for your specific installation. Also allow sufficient clearance if you are installing an outside air kit.

NOTE: Refer to chimney liner manufacturer for recommendations on supporting the liner. Installation into fireplaces without a permit will void the listing.

NOTICE: In Canada when using a factory-built chimney it must be safety listed, Type UL103 HT (2100°F) [1149°C] CLASS "A" or conforming to CAN/ULC-S629M, STANDARD FOR 650°C FACTORY-BUILT CHIMNEYS.

### 🕰 WARNING

Fire Risk.

When lining air-cooled factory-built chimneys:.

- Run chimney liner approved to UL 1777 Type HT requirements (2100 degrees F)
- Re-install original factory built chimney cap ONLY
- DO NOT block cooling air openings in chimney
- Blocking cooling air will overheat the chimney

To maintain the functionality of the fireplace's chimney system you may use a Simpson Dura-Vent DuraLiner Slip Hanger, Part # 4671, and attach to the bottom of the fireplace chimney cap to support the liner. You have two options to completing the installation.

#### Option one - Not required to use liner cap:

Re-attach the existing top of the chimney cap.

#### Option two - Using liner cap:

Re-attach the existing top of the chimney cap and install a new storm collar and a new liner cap.

#### WARNING! Risk of Fire!

Follow venting manufacturer's clearances and instructions when installing venting system.

#### **G. Securing Chimney Components**

All joints should be secured with 3 sheet metal screws or rivets per pipe manufacturers instructions. The sections must be attached to the insert and to each other with the crimped (male) end pointing toward the insert. **Figure 37.1**.

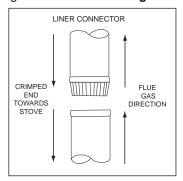


Figure 37.1

#### H. Altering the Fireplace

The following modifications of factory-built fireplaces are permissible:

The following parts may be removed:

Damper	Smoke Shelf or Baffle
Ember Catches	Fire Grate
Viewing Screen/Curtain	Doors

- The fireplace must not be altered. Cutting any sheet metal parts of the fireplace in which the fireplace insert is to be installed is prohibited per ANSI Z21.88 except that the damper may be removed to accommodate a directconnect starter pipe or chimney liner,
- External trim pieces which do not affect the operation of the fireplace may be removed providing they can be stored on or within the fireplace for reassembly if the insert is removed.
- The permanent metal warning label provided in the component pack must be attached to the back of the fireplace, with screws or nails, stating that the fireplace may have been altered to accommodate the insert, and must be returned to original condition for use as a conventional fireplace. **Figure 37.2**.
- Manufacturer designed adjustable support kit can be ordered from your dealer.
- Final approval of this installation type is contingent upon the authority having jurisdiction.

#### WARNING

THIS FIREPLACE MAY HAVE BEEN ALTERED
TO ACCOMMODATE AN INSERT. IT MUST BE
RETURNED TO ITS ORIGINAL CONDITION
BEFORE USE AS A SOLID FUEL BURNING
FIREPLACE.

Figure 37.2

#### I. Factory-Built Sold Fuel Fireplace

A permit may be required for installations, final approval is contingent of the authority having local jurisdiction. Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

Inspect the existing fireplace and chimney for any damage or flaws such as burnouts, metal or refectory warping.

Inspection to a minimum of NFPA 211 Level II is recommended. All repairs must be made prior to installing an insert. The fireplace must be structurally sound and be able to support the weight of the solid-fuel insert

The factory-built chimney must be listed per UL 127 or ULC 610-M87 for all installations. Install thermal protection per this appliance listing requirements.

A full height 6 inch diameter stainless steel full height listed chimney liner must be installed meeting type HT (2100°F) requirements per UL 1777 (USA) or ULC S635 with "0" clearance to masonry (Canada). The full liner must be attached to the insert flue collar and to the top of the existing chimney.

The flue liner top support attachment must not reduce the air flow for the existing air-cooled chimney system. Reinstall original factory-built chimney cap **only**. (See Section F., Prefabricated Metal Chimney)

To prevent room air passage to the chimney cavity of the fireplace, seal either the damper area around the chimney liner or the insert surround. Circulating air chamber (i.e. in a steel fireplace liner or metal hearth circulator) may not be blocked. The air flow within and around the fireplace shall not be altered, blocked by the installation of the insert. (i.e. no louvers or cooling air inlet or outlet ports may be blocked by the insert or the insert surround.

See "H. Altering the Fireplace" for modifications allowed for factory-built fireplaces.

#### WARNING! Risk of Asphyxiation!

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

This may allow flue gases to enter the house.

#### J. Ovalizing Round Stainless Steel Liners

Ovalizing round stainless steel liners to accommodate the liner passing through the damper region of a fireplace is an allowable and acceptable practice.

Ensure that the ovalization is minimized to the extent required to fit through the damper.

#### K. Chimney Height / Rise and Run

To be sure that your Heatilator insert burns properly, the chimney draft (static pressure) should be approximately -0.10 inches water column (W.C.) during a high burn and -0.04 inches W.C. during a low burn, measured 6 inches (152mm) above the top of the insert after one hour of operation at each burn setting.

**NOTE**: These are guidelines only, and may vary somewhat for individual installations.

- This product was designed for and tested on a 6 inch (152mm) chimney, 14 to 16 feet (4.27-4.87m) high, (includes appliance height) measured from the base of the appliance.
- · The further your stack height or diameter varies from this configuration, the possibility of performance problems exists.
- Chimney height may need to be increased by 2 3% per each 1000 feet (304.8m) above sea level.
- It is not recommended to use offsets or elbows at altitudes above 4000 feet (1219.2m) above sea level or when there are other factors that affect flue draft.



#### 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.



## MARNING WARNING

Fire Risk.

This appliance relies upon natural draft to operate properly.

- Chimney heights exceeding 25 feet (7.62m) from base of appliance may create an over-draft situation.
- · Overdraft condition may create over-firing.

Over-firing may ignite creosote and/or damage appliance and chimney.



#### MARNING

Fire Risk.

Failure to install a full reline may cause:

- · Creosote accumulation creating increased risk of chimney fire.
- Lose protection to combustible surfaces from the liner in case of fire.
- · Poor performance and start-ups.
- Less access to chimney for required maintenance.

# **Appliance Set-up**

#### A. Outside Air Kit 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 optional Outside Air system is available.

#### **Outside Air Installation Instructions**

- 1. Remove the Rear Outside Air Cover Plate on outer can and discard and reuse 2 screws. Figure 39.1.
- 2. Install Front Outside Air Plate using 2 screws from the Rear Plate. (This part is located in the component pack)
- 3. Ensure existing access hole in fireplace will not be covered by the outer can. Existing outside air intake hole may be under at the rear or side of outer can. Outside air may also enter down existing chimney chase in some situations.
- 4. Install appliance.

#### **Outside Air Kit Option**

- 1. Remove the outside air cover plate B on outer can and discard. Figure 39.1.
- 2. Install Front Outside Air Plate using 2 screws from the Rear Plate. (This part is located in the component pack)
- 3. Install optional flex adapter to outer can with the same screws. Do not use plastic wire ties that come with the kit as they will melt. NOTE: You may need to install the flex pipe into the firebox first depending on installation. Attach flex to adapater with at least 2 screws.
- 4. Ensure existing access hole in fireplace is sufficient to feed the 4 inch flex.
- 5. After sliding can into fireplace, feed flex into cut opening to obtain outside combustion air.
- Install appliance.



# **A** WARNING



#### 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



#### **WARNING**

#### Asphyxiation Risk.

Outside air inlet must be located to prevent blockage from:

Leaves, snow, ice or other debris

Block may cause combustion air starvation

Smoke spillage may set off alarms or irritate sensitive individuals.



#### **WARNING**

#### Asphyxiation Risk.

Length of outside air supply duct shall NOT exceed the length of the vertical height of the exhaust flue.

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

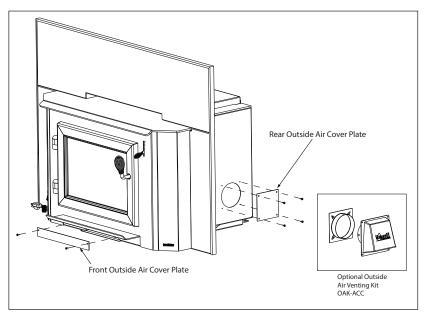


Figure 39.1

#### B. Securing Stove Pipe/Liner to Flue Collar

- 1. There are 4 pre-drilled holes in the flue collar 90 degrees apart. Attach the flue collar to the stove pipe/liner. If the seal is questionable use stove mastic **Figure 40.1.**
- 2. Attach gasket to bottom side of flue collar with a thin coat of silicone.

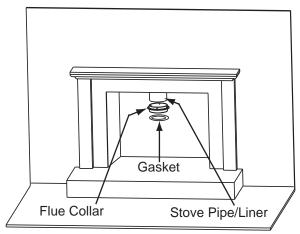


Figure 40.1

#### C. Optional Offset Adapter Installation

In some installations the flue collar and stove pipe/liner do not always align properly. This situation may be remedied by using the optional offset adapter. See Appliance Dimensions page for the amount of distance this accessory can telescope between the flue collar and stove pipe/liner.

- Remove the cast iron flue collar from the appliance and flip it upside down. Using the larger #7 drill bit supplied, drill through all 8 countersunk locations. Figure 40.2.
- Slide the gasket over the the flue collar and attach it to the offset adapter using the 8-32 flathead screws provided. Figure 40.3.
- Adjust the offset adapter to desired distance. Drill holes through the lower chamber as shown in Figure 40.4 using the small drill bit #26 provided.
- Cut the gasket to the proper length and slide in between the upper and lower chambers centered on the screw holes. Attach the upper and lower chambers with screws provided. Figure 40.5.
- 5. Repeat the process on the bottom side.

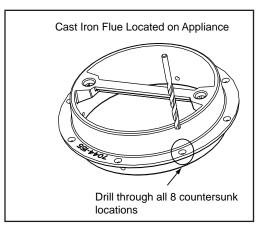


Figure 40.2

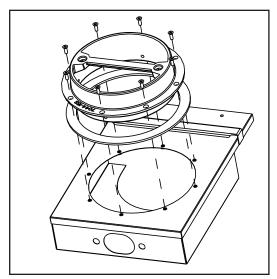


Figure 40.3

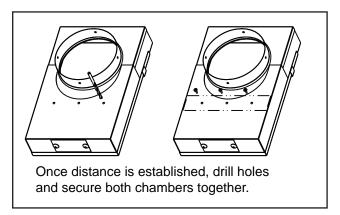


Figure 40.4

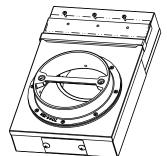


Figure 40.5

#### D. Securing Appliance to Stove Pipe/Liner

- Once you have the appliance in place and secured, remove the tube channel assembly, baffle board and ceramic blanket. Detailed instructions are found on page 24.
- 2. Reach up through the flue opening and grab the attachment bar and pull down inside flue opening. **Figure 41.1**.
- 3. Insert the 5/16 bolts inside the cast flue and through the chimney mounting bar. Securely tighten the nuts. Fasteners are provided.
- 4. Re-install the tube channel assembly, baffle board, ceramic blanket and baffle protection channel.

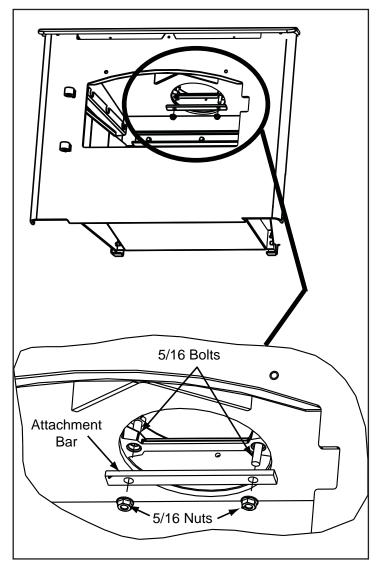


Figure 41.1

#### E. Standard Surround & Trim Kit Installation

Standard Size: 43 in. W x 31 in. H Large Size: 51 in. W x 34 in. H

- 1. Lay surround face down on a protected surface to prevent scratching.
- Using a 4 to 6 inches long Phillips head screw driver attach the side surrounds to the top surround using (2) #8 sheet metal screws on each side provided with the kit. Figure 41.2.
- 3. Lay the trim face down and place the corner brackets into position.
- 4. Using a standard flat screw driver tighten the corner brackets. **Figure 41.3**.
- 5. Slide the assembled trim set over the surround set. and then over the appliance matching the mounting tabs on the side pieces with the slots on the appliance.

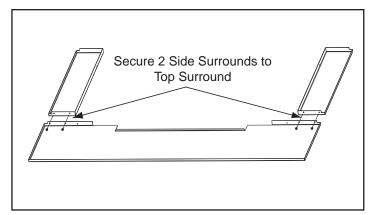


Figure 41.2

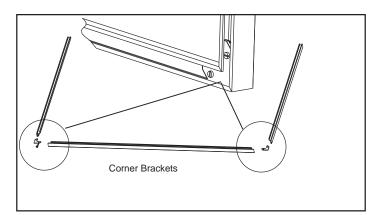


Figure 41.3

# **1** Mobile Home Installation

- An outside air inlet must be provided for combustion and must remain clear of leaves, debris, ice and/or snow. It must be unrestricted while unit is in use to prevent room air starvation which can cause smoke spillage and an inability to maintain a fire. Smoke spillage can also set off smoke alarms.
- Unit must be secured to the mobile home structure. Remove bolts from each side of insert and use plumbers tape to secure to structure (a washer may be required). Re-install bolts.
- Unit must be grounded with #8 solid copper grounding wire or equivalent and terminated at each end with N.E.C. approved grounding device.
- 4. The factory-built fireplace must meet (UM)84-HUD requirements for outside combustion air supply to the fireplace fire chamber and the chimney must be listed to UL103 HT or a listed UL-1777 full length six inch (152mm) diameter liner must be used. It must be equipped with a spark arrestor cap and the outside air must be installed on the insert (see page 37 for details).
- Refer to page 31 of this manual for clearance to combustibles and floor protections requirements. All clearances must be followed precisely.
- 6. Use silicone to create an effective vapor barrier at the location were the chimney or other component penetrates to the exterior of the structure.
- 7. Follow the chimney and chimney connector manufacturer's instructions when installing the flue system for use in a mobile home.
- 8. Burn wood only. Other types of fuels may generate poisonous gases (e.g., carbon monoxide).
- 9. If unit burns poorly while an exhaust blower is on in home, (i.e., range hood), increase combustion air.
- 10. Installation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.

#### NOTICE:

 Construction, clearance and termination must be in compliance with the UMC Table 9C. This installation must also comply with NFPA 211.

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



### A WARNING

Asphyxiation Risk.

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



#### **WARNING**



#### 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

#### **CAUTION**

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

Do NOT cut through:

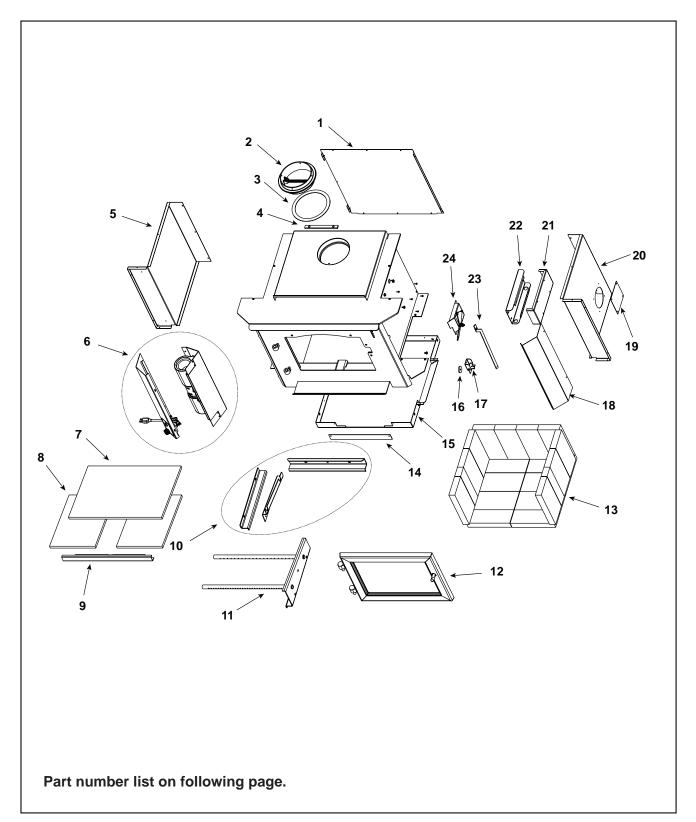
- · Floor joist, wall studs, or ceiling trusses.
- Any supporting material that would affect the structural integrity.



**Service Parts** 

**ECO-WINS18** 

Beginning Manufacturing Date: May 2011 Ending Manufacturing Date: Active





Beginning Manufacturing Date: May 2011 Ending Manufacturing Date: Active

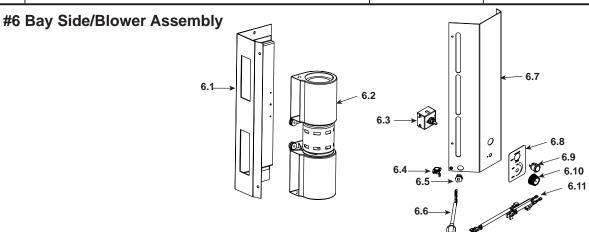
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.



SRV7056-147

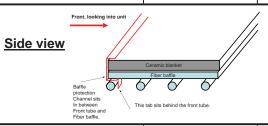
Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Convection Air Channel		SRV7065-105	
2	Flue Attach Ring		SRV7044-154	
3	Gasket, Flue Collar		SRV7044-194	
4	Chimney Ring Attach		SRV7044-181	
5	Outer Shield LH		SRV7065-113	Υ



		8	
6	Bay Side/Blower Assembly		Υ
6.1	Blower Assembly	SRV7065-005	
6.2	Blower Replacement	SRV7044-210	Υ
6.3	Speed Control Only (Rheostat)	842-0370	Υ
6.4	Snap Disc #1	SRV230-0470	Υ
6.5	Strain Relief	7000-463/20	
6.6	Blower Cord Only	832-2410	Υ
6.7	Bay Side LH (W/label)	SRV7065-107	
6.8	Blower Control Label	SRV7065-120	
6.9	Rocker Switch (Round)	SRV7000-515	Υ
6.10	Knob, Speed Control	200-2041	Υ
6.11	Wire Harness	SRV7046-184	Υ
7	Ceramic Fiber Blanket, (19.35" x 13.69")	832-3390	Υ
8	Baffle Board (9.44" x 13.69")	SRV7033-209	Υ

**#9 Baffle Protection Channel** 



9 Baffle Protection Channel
Additional Service Parts on following page.



Beginning Manufacturing Date: May 2011 Ending Manufacturing Date: Active

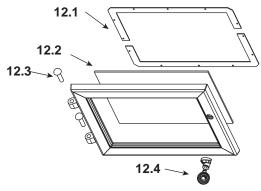
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.



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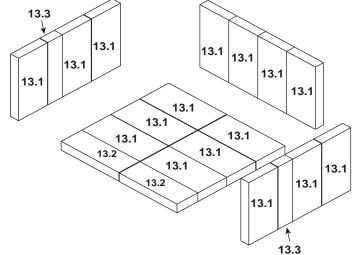
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ı	ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
ı	10	Retainers -Tube Support		SRV7056-132	
	11	Tube Channel Assembly		SRV7065-007	

#### **#12 Door Assembly**



12	Door Assembly		SRV7056-011		
12.1	Glass Frame	Pkg of 2	SRV7044-191		
12.2	Glass Assembly		SRV7044-027	Υ	
12.3	Hinge Pins	Pkg of 2	7000-606/2	Υ	
12.4	Door Hardware		SRV7056-012	Υ	
	Gasket, Door Rope	7 Ft	832-1680		

#### **#13 Brick Assembly**



13	Brick Assembly		SRV7056-007	
13.1	Brick 1 (9 X 4.35 X 1.25)	Qty 16 Req		
13.2	Brick 2 (9 X 3.25 X 1.25)	Qty 2 req.		
13.3	Brick 3 (9 x 2.5 x 1.25)	Qty 2 req.		
	Brick, Single Uncut		832-0550	Υ
	Brick, 6 Pack Uncut		832-3040	Υ

Additional Service Parts on following page.



Beginning Manufacturing Date: May 2011 Ending Manufacturing Date: Active

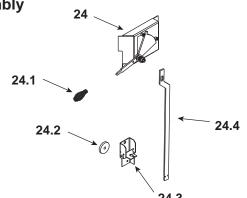
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

6.0

Stocked at Depot

	•			Jai Depoi
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
14	Outisde Air Cover Plate		SRV7065-118	
15	Bottom Air Pan		SRV7065-108	
16	Door Gasket		7033-282	
17	Inlet Door Assembly		SRV7056-009	
18	Bay side RH		SRV7065-106	
19	Outside Air Cover Plate		SRV7044-217	
20	Outer shield RH		SRV7065-112	
21	Tube Channel Assembly		SRV7056-125	
22	Tube Channel Chamber		SRV7065-128	
23	Inlet Lever		SRV7056-130	

#### **#24 Burn Rate Control Assembly**



24	Burn Rate Control Assembly	SRV7056-008		
24.1	Spring Handle, 1/4" Black	SRV7000-614	Υ	
24.2	Door Gasket	7033-282	Υ	
24.3	Inlet Door Assembly	SRV7056-009		
24.4	Inlet Lever	SRV7056-130		

Fastener Packs			
Nut, Ser Flange Small 1/4-20	226-0130/4	Υ	
Nut, Wing 8-32	226-0160/24	Υ	
Screw Hwh Ms 1/4 X 34 Ns	220-0080/25	Υ	
Screw Pan Head Phillips Tc 8-32X1/2	220-0030/25	Υ	
Screw, Pan Head Phillips 8-32 X 3/8	225-0500/40	Υ	
Washer, SAE	227-0080/24	Υ	

## **Service And Maintenance Log**

Date of Service	Performed By	Description of Service



#### **CONTACT INFORMATION:**

Hearth & Home Technologies 1445 North Highway Colville, WA 99114 Division of HNI INDUSTRIES

#### Please contact your Heatilator dealer with any questions or concerns.

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

For Consumer Care 1-866-427-3316

Prior to calling, please have the model and serial number of the unit you are calling about.

This information can be found on the front of the unit under the ashlip

#### **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.

# We recommend that you record the following pertinent information for your ECO-WINS18 Wood Stove



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.