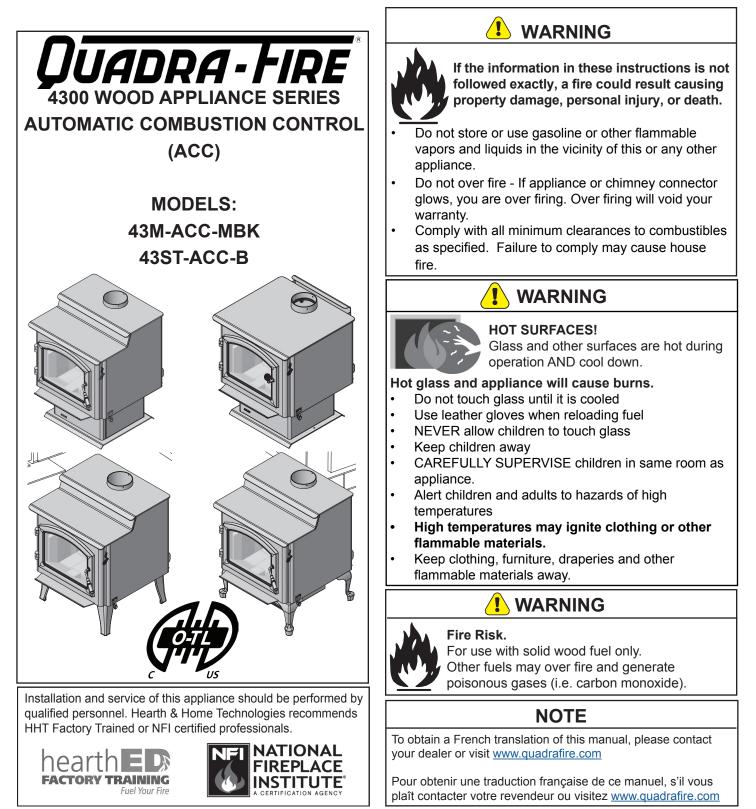
## Installation Manual Installation & Appliance Set-Up

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

NOTICE: DO NOT DISCARD THIS MANUAL





Safety Alert Key:

**DANGER!** Indicates a hazardous situation which, if not avoided <u>will</u> result in death or serious injury. **WARNING!** Indicates a hazardous situation which, if not avoided <u>may</u> 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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Quadra-Fire is a registered trademark of Hearth & Home Technologies.

## Important Safety Information

#### A. Appliance Certification

|                   | U   |
|-------------------|---|
| Model:            | 4300 Millennium & Step Top (ACC)<br>Uni-Body                                    |
| Laboratory:       | OMNI Test Laboratories, Inc.  |
| Report No & Date: | 0061WS067S  |
| Туре:             | Listed Room Appliance, Solid Fuel<br>Type                                       |
| Standard:         | UL1482-11 (R2015) and ULC S627-<br>00 and (UM) 84-HUD, Mobile Home<br>Approved. |

#### **B. BTU & Efficiency Specifications**

| D. DTO & Enteries opecifications   |                        |  |  |  |  |
|--|------------------------|--|--|--|--|
| EPA Certification #:   | 656                    |  |  |  |  |
| EPA Certified Emissions:   | 1.00 grams per hour    |  |  |  |  |
| *LHV Tested Efficiency:  | 80.2 %                 |  |  |  |  |
| **HHV Tested Efficiency:   | 74.2 %                 |  |  |  |  |
| ***EPA BTU Output:   | 11,800 to 38,300 / hr. |  |  |  |  |
| ****Peak BTU/Hour<br>Output:   | 63,700                 |  |  |  |  |
| Vent Size:   | 6 inches               |  |  |  |  |
| Firebox Size:  | 2.30 cubic feet        |  |  |  |  |
| Recommended Wood<br>Length:  | 18 inches              |  |  |  |  |
| Fuel Orientation:  | Front-to-Back          |  |  |  |  |
| Fuel   | Seasoned Cord Wood     |  |  |  |  |
| *Weighted average LHV (Low Heating Value) efficiency<br>using Douglas Fir dimensional lumber and data collected<br>during EPA emission test.                               |                        |  |  |  |  |
| **Weighted average HHV (High Heating Value) efficiency<br>using Douglas Fir dimensional lumber and data collected<br>during EPA emission test.                             |                        |  |  |  |  |
| ***A range of BTU outputs based on EPA Default<br>Efficiency and the burn rates from the low and high EPA<br>tests, using Douglas Fir dimensional lumber.                  |                        |  |  |  |  |
| ****A peak BTU out of the appliance calculated using the maximum first hour burn rate from the High EPA Test and the BTU content of cord wood (8600) times the efficiency. |                        |  |  |  |  |

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with (UM) 84-HUD and NFPA211 in the U.S.A. and CAN/CSA-B365 Installation Codes in Canada.

The Quadra-Fire 4300 Series Wood Appliance meets the U.S. Environmental Protection Agency's crib wood emission limits for wood appliances sold after May 15, 2015.

This wood appliance needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

#### C. 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.
- Outside Air Kit, part OAK-ACC must be installed in a mobile home installation.

#### **D. Glass Specifications**

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

#### E. Non-Combustible Materials

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

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

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

#### F. Combustible Materials

Material made of/or surfaced with any of the following materials:

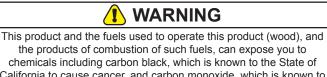
- Wood
- Compressed Paper
- Plant Fibers
- Plastic
- Plywood/OSB - Sheet Rock (drywall)

Any material that can ignite and burn: flame proofed or not, plastered or non-plastered.

#### G. Sleeping Room

When installed in a sleeping room it is recommended that a smoke and/or CO alarm be installed in the bedroom. The size of the room must be at least 50ft<sup>3</sup> per 1,000 Btu/hr stove input, if the stove exceeds the room size, out air must be installed.

#### H. California - Prop65



chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: WWW.P65Warnings.ca.gov



#### Fire Risk

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

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

Any such action that may cause a fire hazard.

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

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

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

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

# Install Guide

## 2 Getting Started

#### A. Design and Installation Considerations

Consideration must be given to:

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

It is a good idea to plan your installation on paper, using exact measurements for clearances and floor protection, before actually beginning the installation. If you are not using an existing chimney, place the appliance where there will be a clear passage for a factory-built listed chimney through the ceiling and roof.

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

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

### CAUTION

Check building codes prior to installation.

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

## 

Asphyxiation Risk.



- Do NOT connect this appliance to a
- chimney flue servicing another appliance.
- Do NOT connect to any air distribution duct or system.

May allow flue gases to enter the house.

#### NOTICE: HEARTH & HOME TECHNOLOGIES ASSUMES NO RESPONSIBILITY FOR THE IMPROPER PERFORMANCE OF THE APPLIANCE SYSTEM CAUSED BY:

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

#### B. Fire Safety

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

- Install at least one smoke detector on each floor of your home to ensure your safety. They should be located away from the heating appliance and close to the sleeping areas. Follow the smoke detector manufacturer's placement and installation instructions, and be sure to maintain regularly.
- 2. A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.
- 3. A CO detector should be installed in the room with the appliance.
- 4. A practiced evacuation plan, consisting of at least two escape routes.
- 5. A plan to deal with a chimney fire as follows: In the event of a chimney fire:
  - a. Evacuate the house immediately
  - b. Notify fire department.

#### C. Negative Pressure

### WARNING

#### Asphyxiation Risk.



Negative pressure can cause spillage of combustion fumes, soot and carbon monoxide.

Appliance needs to draft properly for safety.

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

Causes include:

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

To minimize the effects of negative air pressure:

- Install optional 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

### 



#### Fire Risk.

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

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

Any such action that may cause a fire hazard.

#### **D. Tools And Supplies Needed**

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

| Reciprocating saw           | Flat blade screwdriver  |
|-----------------------------|-------------------------|
| Framing material            | Electric drill and bits |
| Pliers                      | Plumb line              |
| High temp caulking material | Safety glasses          |
| Hammer                      | Level                   |
| Gloves                      | Tape measure            |
| Phillips screwdriver        | Misc. screws and nails  |
| Framing square              | 7/16 socket or wrench   |

1/2-3/4 in. length, #6 or #8 self-drilling screws

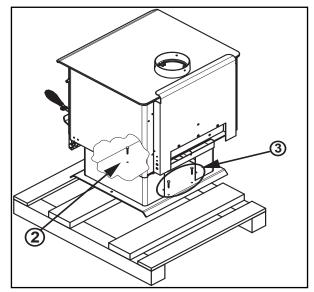
#### E. Inspection of Appliance and Components

- Remove appliance and components from packaging and inspect for damage.
- Report to your dealer any parts damaged in shipment.
- Read all the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.

## F. Removal of Appliance from Shipping Materials

#### Millennium:

- Remove box and 2x4 structural boards being careful not to damage product.
- Using 7/16 socket or wrench remove one bolt located inside front part of appliance (Figure 6.1).
- Moving to the back of the appliance and using 7/16 socket or wrench remove two bolts (Figure 6.1).
- Carefully pull appliance off of pallet and put in desired location following Hearth Pad and Clearance to Combustibles on pages 8 and 9.



#### Figure 6.1 Millennium appliance

#### Step Top:

- 1. Remove box and 2x4 structural boards being careful not to damage product.
- 2. Using 7/16 socket or wrench remove two bolted bands that are located on each side of the appliance.
- 3. Carefully pull appliance off of pallet and lay appliance on back side on a protective surface.
- 4. Reference **Section 5 Appliance Set-Up** on page 18 for ash removal system, leg or pedestal attachment options.



#### 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.

### G. Install Checklist

#### ATTENTION INSTALLER:

Follow this Standard Work Checklist

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

| Customer:   |           |                                 |                      |
|---|-----------|---------------------------------|----------------------|
| Date Installe:  |           |                                 |                      |
| Lot / Address:  |           |                                 |                      |
| Location of Appliance:  |           |                                 |                      |
| Installer:  |           |                                 |                      |
| Dealer / Distributor Phone #:   |           |                                 |                      |
| Serial #:   |           |                                 |                      |
| Model:  | 8 8 8 8 8 |                                 |                      |
| Wodol   | 8 8 8 8 8 |                                 |                      |
| WARNING! Risk of Fire or Exposion! Failure to install appliance acco  | ording to | these instruction can lead to   | a fire or explosion. |
| Appliance Install   | YES       | IF NO, WHY?                     |                      |
| Verified clearances to combustibles.<br>Appliance is leveled and connector is secured to appliance.                 | Ц         |                                 |                      |
| Hearth extension size/height decided.   | H         |                                 |                      |
| Outside air kit installed.  | H         |                                 |                      |
| Floor protection requirements have been met.  | H         |                                 |                      |
| If appliance is connected to a masonry chimney, it should be cleaned and  | H         |                                 |                      |
| inspected by a professional. If installed to a factory built metal chimney, the                                     |           |                                 |                      |
| chimney must be installed according to the manufacturer's instructions and clearances.                              |           |                                 |                      |
|   |           |                                 |                      |
| Chimnov   |           |                                 |                      |
| Chimney configuration complies with diagrams.   |           |                                 |                      |
| Chimney installed, locked and secured in place with proper clearance.   | H         |                                 |                      |
| Chimney meets recommended height requirements (14-16 feet).   |           |                                 |                      |
| Roof flashing installed and sealed.   |           |                                 |                      |
| Terminations installed and sealed.  |           |                                 |                      |
| Clearances  |           |                                 |                      |
| Combustible materials not installed in non-combustible areas.   |           |                                 |                      |
| Verified all clearances meet installation manual requirements.  | H         |                                 |                      |
| Mantels and wall projections comply with installation manual requirements.  |           |                                 |                      |
| Protective hearth strips and hearth extension installed per manual requirements                                     | s. 📙      |                                 |                      |
|   |           |                                 |                      |
| Appliance Setup   |           |                                 |                      |
| All packaging and protective materials removed.   |           |                                 |                      |
| Firebrick, baffle and ceramic blanket installed correctly.  | Н         |                                 |                      |
| All labels have been removed from the door.<br>All packaging materials are removed from inside/under the appliance. | H         |                                 |                      |
| Manual bag and all of its contents are removed from inside/under the appliance                                      |           | <u> </u>                        |                      |
| and given to the party responsible for use and operation.   |           |                                 |                      |
|   |           |                                 |                      |
| Hearth & Home Technologies recommends the following:  |           |                                 |                      |
| <ul> <li>Photographing the installation and copying this checklist for your file.</li> </ul>                        |           |                                 |                      |
| That this checklist remain visible at all times on the appliance until the insta                                    | lltion is | complete.                       |                      |
|   |           |                                 |                      |
|   |           |                                 |                      |
| Comments: Further description of the issues, who is responsible (Installer/Buil                                     | dor/Oth   | ar Trades, etc.) and corrective | e action needed:     |
| Comments communicated to party responsible  | by _      | or                              |                      |
| (Builder / Gen. Contractor)   |           | (Installer)                     | (Date)               |

## **3** Dimensions and Clearances

### A. Appliance Dimensions

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

#### 4300 Millennium Pedestal Model

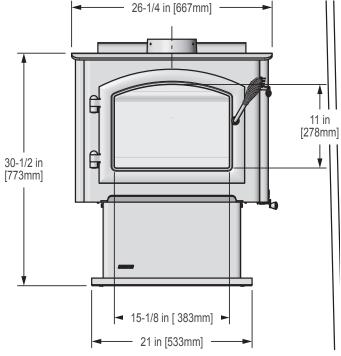


Figure 8.1 Front View

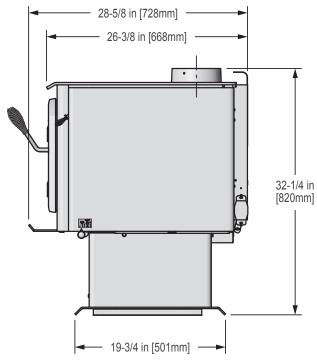


Figure 8.2 Side View

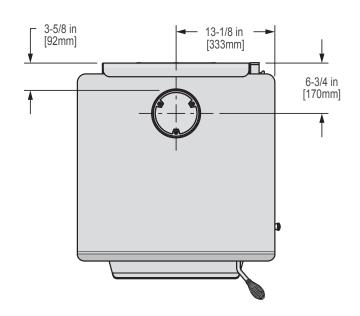
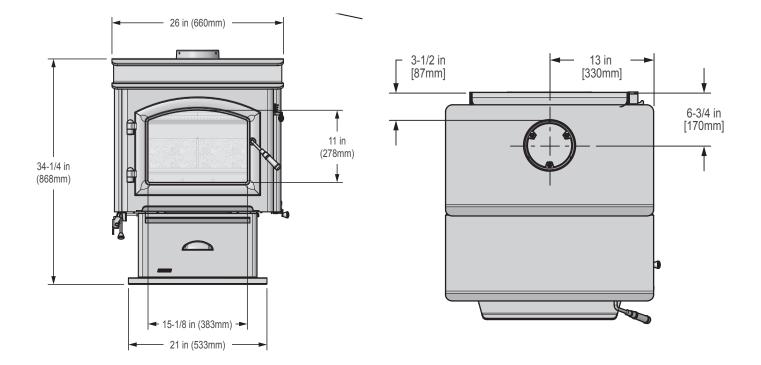


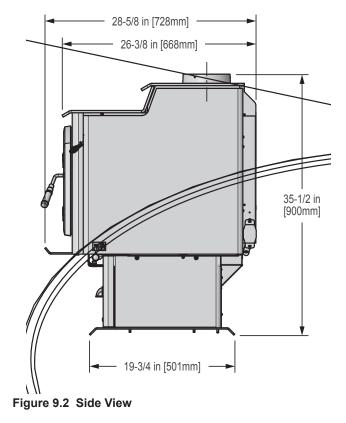
Figure 8.3 Top View

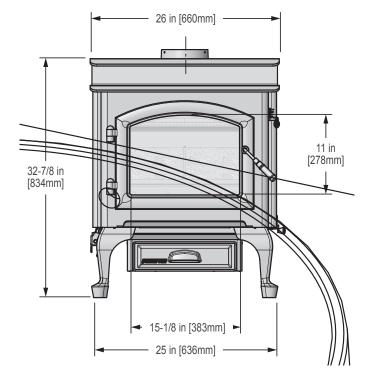


#### 4300 Step Top Pedestal Model



Figure 9.3 Top View





#### 4300 Step Top Q Anne Leg Model

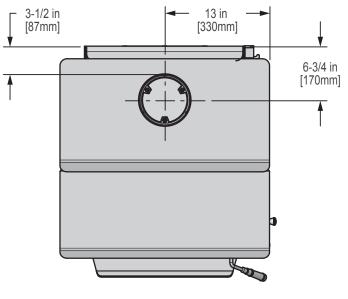


Figure 10.1 - Front View

Figure 10.3 - Top View

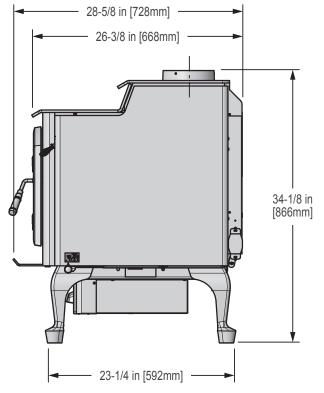
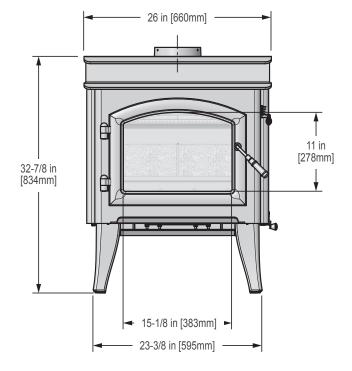


Figure 10.2 - Side View



#### 4300 Step Top Traditional Leg Model

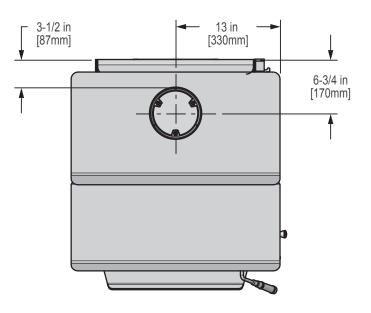


Figure 11.1 - Front View

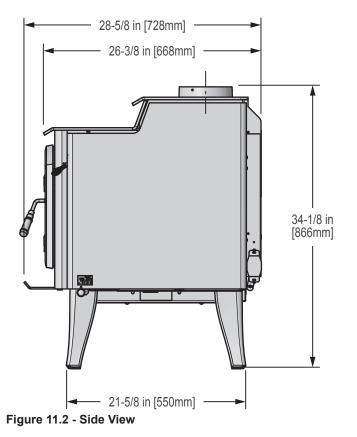


Figure 11.3 Top View

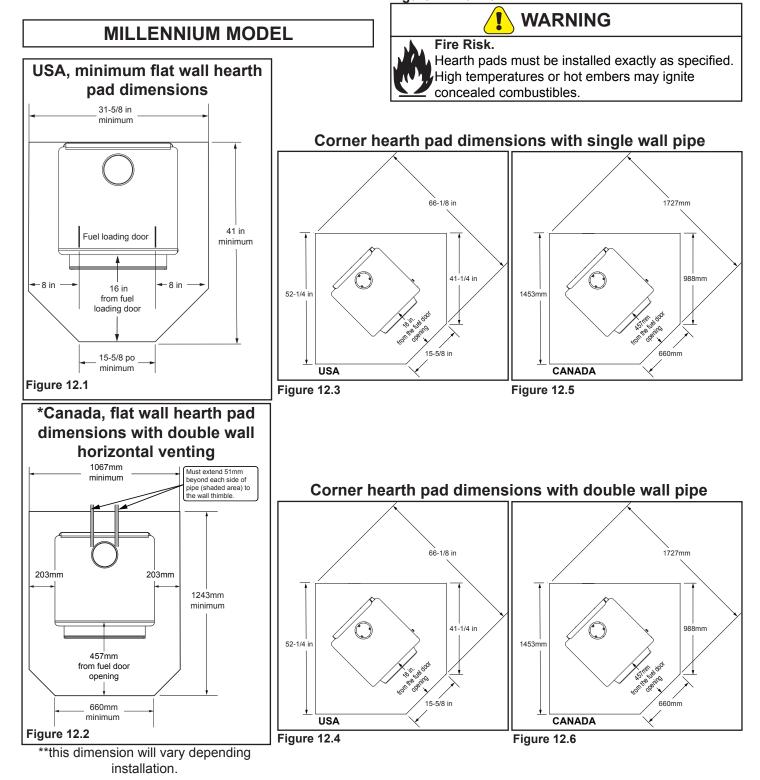
### **B. Hearth Protection Requirements**

**EMBER PROTECTION:** It is necessary to install a Type I floor protector.

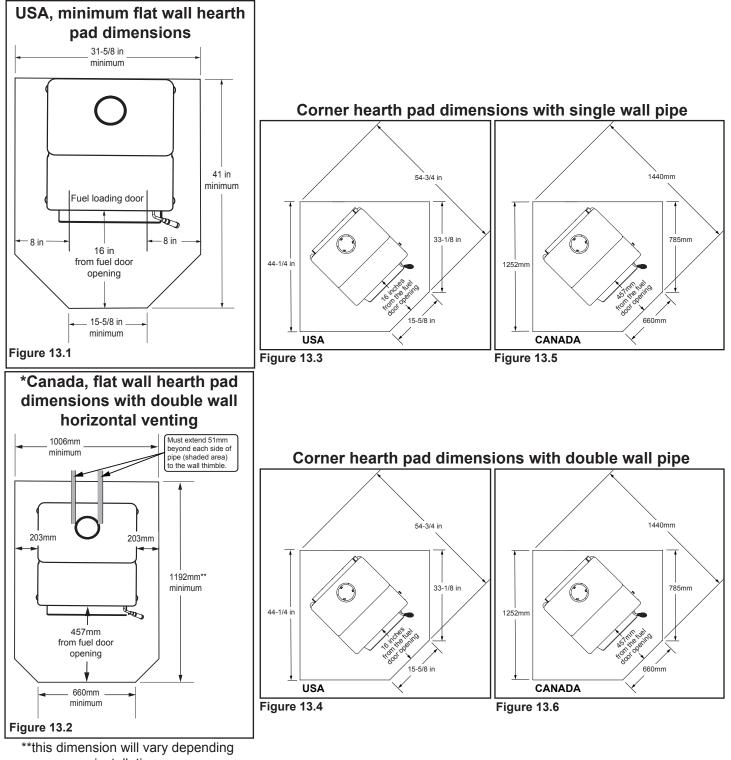
Floor protector must be non-combustible material, extending beneath appliance with a minimum of 16 inches (406mm) in front of glass and 8 inches (203mm) to both sides of the fuel loading door. Open the door and measure 8 inches (203mm) from the side edge of the opening in the face of the appliance. **\*See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

In Canada, similar floor protection must be provided 18 inches (457mm) in front and 8 inches (203mm) from the sides and rear of the appliance unless the hearth pad is placed against the wall (Figure 12.2 or 13.2). Then the clearance may be reduced using double wall pipe and the Clearance to Combustibles table listed on page 14.

\*Exception: Non-combustible floor protector must extend beneath the flue pipe when installed with horizontal venting and extend 2 inches (51mm) beyond each side; See Figure 12.2 or 13.2.



#### **STEP-TOP UNI-BODY MODEL**

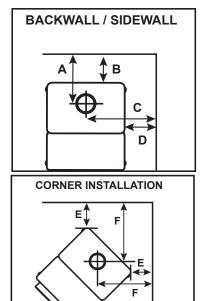


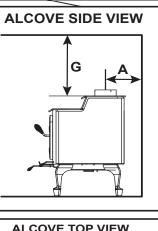
#### C. Clearances to Combustibles

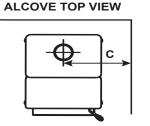
|                  | \            |                |               | FULL VERTICAL |             |              | _                         |          |
|------------------|--------------|----------------|---------------|---------------|-------------|--------------|---------------------------|----------|
|                  |              | В              | C             | D             | E           | F            | 6                         | Н        |
| SINGLE WALL PIPE |              |                | Ŭ             | 5             | -           |              | 5                         |          |
| MILLENNIUM       | 18-1/2 (470) | 11-3/4 (298)   | 27-1/2 (699)  | 14-1/2 (368)  | 10 (254)    | 20-1/2 (521) | 53-1/2 (1359)             | 12 (305) |
| STEP TOP         | 18-1/2 (470) | 11-3/4 (298)   | 27-1/2 (699)  | 14-1/2 (368)  | 2 (51)      | 15 (381)     | 49-1/2 (1283)             | 12 (305) |
| OUBLE WALL PIPE  | 1            |                |               | I             |             |              | 11                        |          |
| MILLENNIUM       | 12 (305)     | 5-1/4 (133)    | 27-1/2 (699)  | 14-1/2 (368)  | 10 (254)    | 20-1/2 (521) | 53-1/2 (1359)             | 12 (305) |
| STEP TOP         | 10-1/2 (267) | 3-3/4 (95)     | 25 (635)      | 11-3/4 (298)  | 2 (51)      | 15 (381)     | 49-1/ <del>2 (1283)</del> | 5 (127)  |
|                  | INSTAL       | LATION: 90 DEG | REE ELBOW OFF | TOP OF APPLIA | NCE THROUGH | BACKWALL     | II                        |          |
| DOUBLE WALL PIPE |              |                |               | 1             | i.          | -            | 11                        |          |
| MILLENNIUM       | 11-1/2 (292) | 6 (152)        | 27-1/2 (699)  | 15 (381)      | 10 (254)    | 20-1/2 (521) | 53-1/2 (1359)             | N/A      |
| STEP TOP         | 10-1/2 (267) | 4 (102)        | 22 (559)      | 9 (229)       | 2 (51)      | 15 (381)     | 49-1/2 (1283)             | N/A      |
|                  |              |                | INSTALLATIO   | N: ALCOVE     | 1           |              | 11                        |          |
| DOUBLE WALL PIPE |              |                |               | -             |             |              |                           |          |
| MILLENNIUM       | 16 (406)     | 10 (254)       | 27 (686)      | 14-1/2 (368)  | N/A         | N/A          | 53-1/2 (1359)             | 12 (305) |
| STEP TOP         | 10-1/2 (267) | 3-3/4 (95)     | 25 (635)      | 11-3/4 (298)  | N/A         | N/A          | 49-1/2 (1283)             | 5 (127)  |

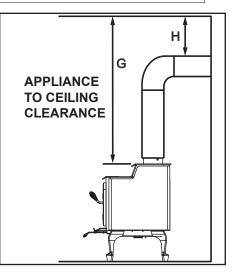
For alcove only: Six inch diameter listed Double wall air insulated connector pipe with UL103 HT listed factory built Class A chimney or masonry chimney. Maximum depth of Alcove shall be no more than 48 inches (1219mm) and the referenced alcove clearances. Canada must comply with CAN/ULC-S269 M87 for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

\* FOLLOW PIPE MANUFACTURES CLEARANCES AS REQUIRED









\* If H = N/A, follow Pipe Manufacturer's clearances

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



Fire Risk.

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

#### **NOTE: Service Space**

In order to replace the tube channel assembly a clearance of 19 inches (483mm) is required on the right side of appliance in order to remove the tubes with the appliance in place.

If space is not available, the appliance will have to be disconnected from the chimney to proceed with the tube replacement.

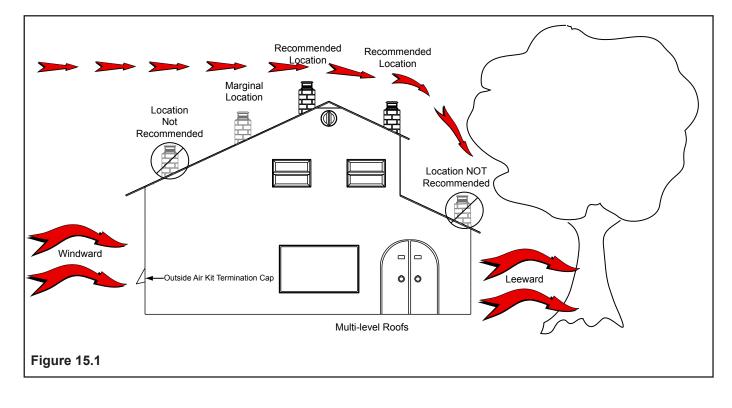
# 4 Chimney Systems

#### A. Locating Your Appliance & Chimney

Location of the appliance and chimney will affect performance. As shown in **Figure 15.1** 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.



#### **B.** Chimney Termination Requirements

Follow manufacturer's instructions for clearance, securing flashing and terminating the chimney (Figure 16.1 & 16.2).

- 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:

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

#### NOTICE: LOCATING THE APPLIANCE IN A BASEMENT OR IN A LOCATION OF CONSIDERABLE AIR MOVEMENT CAN CAUSE INTERMITTENT SMOKE SPILLAGE FROM APPLIANCE. DO NOT LOCATE APPLIANCE NEAR

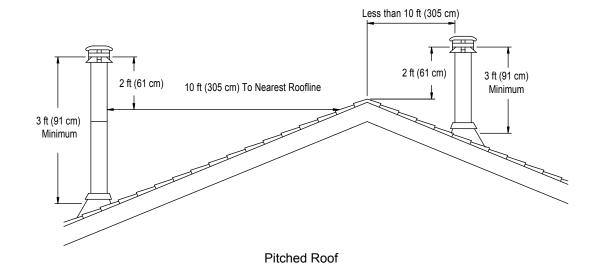
- Frequently open doors
- Central heat outlets or returns

#### C. 2-10-3 Rule

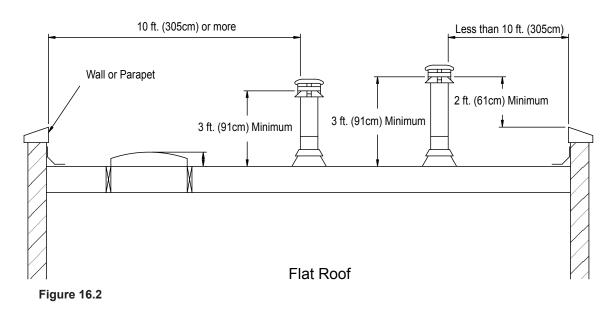
## These are safety requirements and are not meant to assure proper flue draft.

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

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



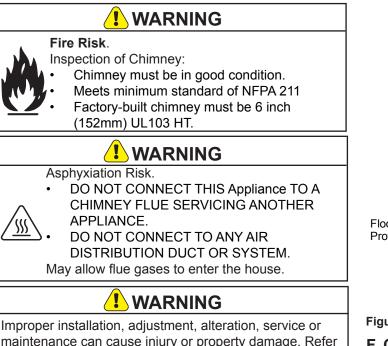




#### D. Chimney Height / Rise and Run

This product was designed for and tested on a 6 inch (152mm) chimney, 14 to 16 feet (420-480cm) high, (includes appliance height) measured from the base of the appliance. The further your stack height or diameter varies from this configuration, the greater the likelihood it may affect performance.

Chimney height may need to be increased by 2 - 3% per each 1000 feet above sea level. It is not recommended to use offsets or elbows at altitudes above 4000 feet above sea level or when there are other factors that affect flue draft.



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

#### E. Venting Components

#### **Chimney Connector:**

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

#### Thimble:

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

#### Chimney:

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

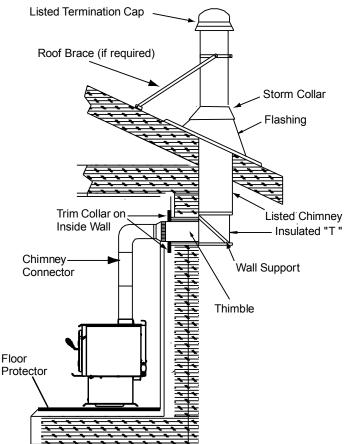


Figure 17.1 Prefabricated Exterior Chimney

#### F. Chimney Systems Prefabricated Metal Chimney

- Must be minimum 6 inch (152mm) diameter (ID) high temperature chimney listed to UL 103 HT (2100°F) or ULC S629M.
- Must use components required by the manufacturer for installation.
- Must maintain clearances required by the manufacturer for installation.
- Refer to manufacturers instructions for installation.
- NOTE: In Canada when using a factory-built chimney it must be safety listed, Type UL103 HT (2100<sup>O</sup>F) CLASS "A" or conforming to CAN/ULC-S629M, STANDARD FOR 650<sup>O</sup>C FACTORY-BUILT CHIMNEYS.

#### Thimble

Site constructed for masonry chimney installation:

#### Components

A minimum length of 12 inches [305mm] (longer for thicker walls) of solid insulated factory-built chimney length constructed to UL 103 Type HT 6 inch (152mm) inside diameter. Chimney needs to extend a minimum of 2 inches (51mm) from the interior wall and a minimum of 1 inch (25mm) from the exterior wall.

Wall spacer, trim collar and wall band to fit solid pack chimney selected.

Minimum 8 inch (203mm) diameter clay liner section (if not already present in chimney) and refractory mortar.

When jurisdiction requires install approved chimney liner in masonry chimney.

#### **Air Clearances**

- Masonry chimney clearance must meet NFPA 211 minimum requirement of 2 inches (51mm) to sheet metal supports and combustibles.
- Minimum of 1 inch (25mm) clearance around the chimney connector.
- Top of wall opening is a minimum of 13-1/2 inches (343mm) from ceiling or 4-1/2 inches (114mm) below minimum clearance specified by chimney connector manufacturer. NFPA 211 minimum vertical clearance of 18 inches (457mm) from chimney connector and ceiling or minimum recommended by chimney connector manufacturer (Figure 18.2).

#### Instructions:

- 1. Open inside wall at proper height for the chimney connector to entry the masonry chimney (**Figure 18.2**).
- 2. Entry hole to masonry chimney must be lined with an 8 inch (203mm) minimum diameter clay liner, or equivalent, secured with refractory mortar.
- Construct a 17 inch x 17 inch (432mm x 432mm) outside dimension frame from 2 x 2 framing lumber to fit into wall opening. Inside opening of frame should be no less than 14 inch x 14 inch (356mm x 356mm) (Figure 18.2).
- 4. Attach the wall spacer to the chimney side of the frame.
- 5. Nail the frame into the wall opening. The spacer should be on the chimney side.
- 6. Insert the section of the solid insulated chimney into the outer wall of the masonry chimney.
- 7. Tightly secure the length of the solid insulated chimney with the wall band to the masonry chimney.
- 8. Insert a section of chimney connector into the chimney. Make sure it does not protrude past the edge of the clay chimney liner inside the chimney.
- 9. Seal the end of the chimney connector to the clay liner with refractory mortar.
- 10. Install trim collar around the sold pack chimney section.

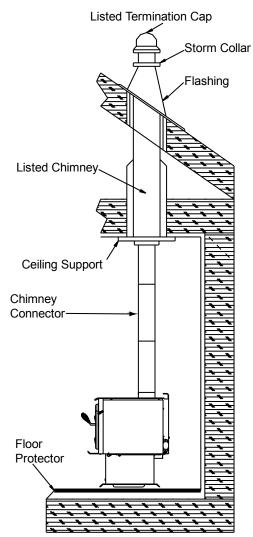
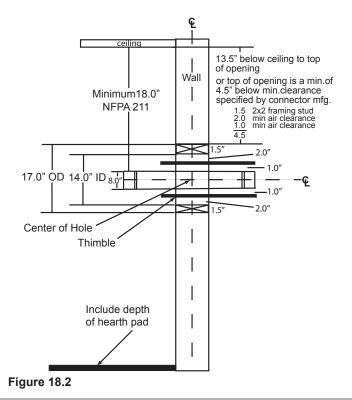
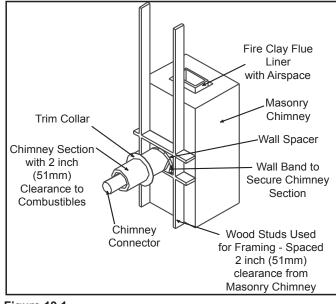


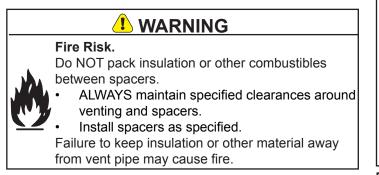
Figure 18.1 - Prefabricated Interior Chimney



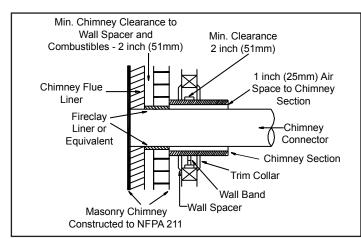
#### Solid Pack Chimney with Metal Supports as a Thimble



#### Figure 19.1



## Solid Pack Chimney with Metal Supports as a Thimble (Cont'd)



#### Figure 19.2

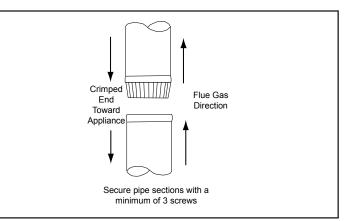
#### G. Installing Chimney Components Chimney Connector

#### Single wall connector or appliance pipe.

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

#### Factory-built listed chimney connector (vented).

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





### \rm WARNING

#### Fire Risk.

Follow Chimney Connector Manufacturer's

Instructions for Proper Installation.

ONLY use connector:

 Within the room, between appliance and ceiling or wall.

Connector shall NOT pass through:

- Attic or roof space
- Closet or similar concealed space
- Floor or ceiling

Maintain minimum clearances to combustibles

#### H. Proper Draft

To be sure that your Quadra-Fire 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.

## Appliance Set-Up

### A. Pedestal Assembly & ARS Installation

NOTE: The Ash Removal System, must be installed first before installing the pedestal.

**Included in Kit**: ARS door assembly, ARS latch assembly, Pedestal, Ash Pedestal Drawer, ARS Channel, ARS Cover, and fastener package.

**Tools Required:** 7/16 socket wrench, 3/8 open end wrench, Phillips screw driver, and hammer.

#### Begin installing the ARS System:

- 1. Remove leg mount brackets packaged inside of firebox and discard.
- 2. Remove the 2 bricks in the front most part of the firebox (Figure 20.1).
- 3. Lay appliance on its back on a protective pad or pallet (Figure 20.2).
- 4. Remove heat shield by loosening the four bolts using 3/8 open end wrench (Figure 20.2).
- 5. Remove 8 nuts that hold the cover plate on using a 7/16 socket wrench; discard cover plate (Figure 20.2).

### <u> WARNING!</u>

#### CHECK GASKET!

- Verify that the gasket is present and that the glossy side is away from firebox bottom.
- It is important that the gasket is put in correctly for sealing capabilities.
- 6. Remove knock out from bottom of firebox by using a hammer (Figure 20.2).
- 7. Install ash door assembly by sliding the rod at an angle into the slot on the left side (**Figure 20.3**).
- 8. Slide the ash door over the 8 screws protruding from the bottom of the appliance. Secure with nuts and washers using 7/16 socket wrench (**Figure 20.3**).
- 9. Install ARS latch by sliding latch assembly over 2 threaded studs protruding from the bottom on the left hand side of the appliance. Secure by using two nuts use 7/16 socket wrench (Figure 21.1 on page 21).
- 10. Add knob to handle rod (Figure 21.2 on page 21).
- 11. Using two bolts and two flange nuts to secure ARS channel using 3/8 open end wrench and 7/16 socket wrench (Figure 21.3 on page 21).

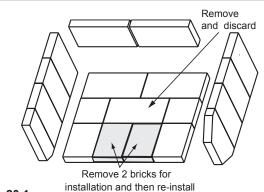


Do **NOT** operate before fully assembling components.

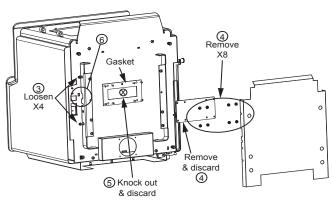
Burning your appliance without a pedestal or leg kit attached:



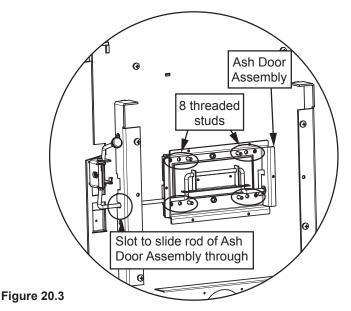
- Will void your warranty.
- May result in property damage or personal injury.











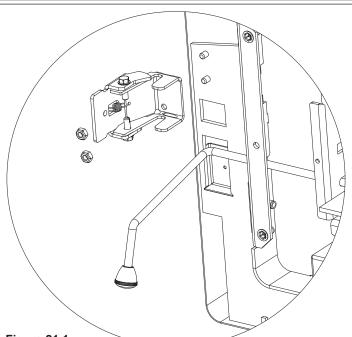
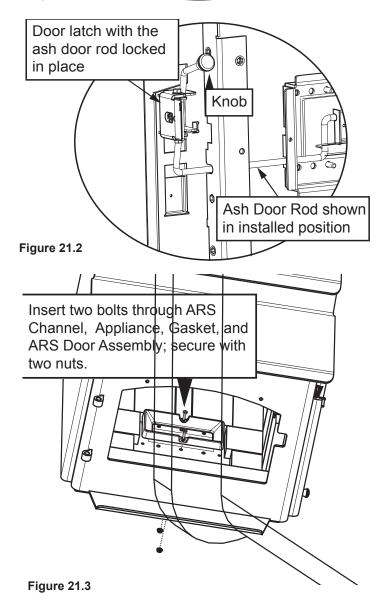
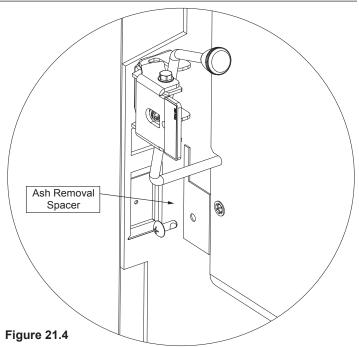


Figure 21.1





#### Ped Kit and Ash Removal System (Cont'd)

Installing Ped Kit

- 1. Follow **Begin installing the ARS System** instructions provided on page 21.
- Slide pedestal over adapter on bottom of appliance and secure with bolts from heat shield (Figure 23.1 on page 23).
- 3. Install ARS Spacer on left hand side with one bolt using Phillips head screwdriver (Figure 22.4).
- 4. Carefully stand appliance up and place in desired location.

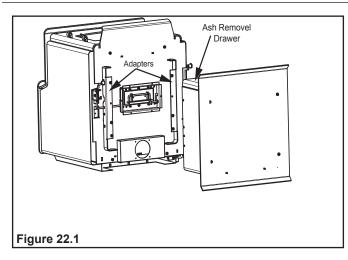
Finishing the ARS Installation

- Replace front bricks that were removed in step 1 of <u>Begin installing the ARS System</u> on page 18 (Figure 23.2 on page 23).
- 2. Install the ash drawer to pedestal base.
- 3. Install ARS access cover inside of ARS Channel that is located inside the firebox (Figure 23.2 on page 23).

## CAUTION!

#### CHECK BAFFLE BOARDS & CERAMIC BLANKET!

- Verify that the baffle boards and ceramic blanket are in their proper locations.
- It is important that the baffle boards and ceramic blanket are correctly installed for proper burn safety.
- **NOTE:** If installing a floor installation of an outside air kit on a Step Top model with a pedestal assembly you must attach the enclosed cover plate with 4 screws to the back of the appliance. Other wise you may discard this piece (**Figure 23.3 on page 23**).



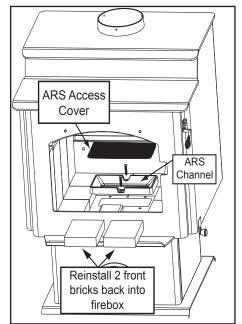
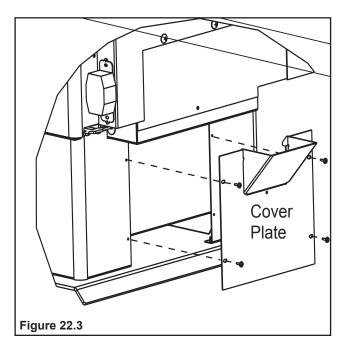


Figure 22.2



#### **B. Access Cover Handle**

Insert Access Cover Handle handle into slot of ARS Cover to remove ARS Cover for cleaning ash out of firebox (Figure 21.4).

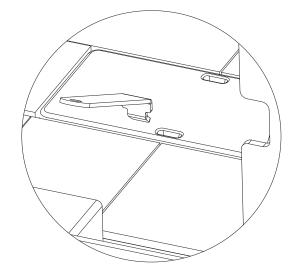


Figure 22.4

#### C. Leg Kit & ARS Installation

NOTE: The Ash Removal System, must be installed first before installing the legs.

**Included in Kit**: ARS door assembly, ARS latch assembly, Ash Removal Box, Ash Removal Drawer, ARS Channel, ARS Cover, and fastener package.

**Tools Required:** 7/16 socket wrench, 9/16 socket wrench, 3/8 open end wrench, Phillips screw driver, and hammer. **Begin installing the ARS System.** 

- 1. Remove leg mount brackets packaged inside of firebox and set aside.
- 2. Remove the 2 bricks in the front most part of the firebox (Figure 20.1 on page 20).
- 3. Lay appliance on its back on a protective pad or pallet (Figure 20.2 on page 20).
- 4. Remove heat shield by loosening the four bolts using 3/8 open end wrench (Figure 20.2 on page 20).
- 5. Remove 8 nuts that hold the cover plate on using a 7/16 socket wrench; discard cover plate (Figure 20.2 on page 20).

### WARNING!

#### CHECK GASKET!

- Verify that the gasket is present and that the glossy side is away from firebox bottom.
- It is important that the gasket is put in correctly for sealing capabilities.

- 6. Remove knock out from bottom of firebox by using a hammer (Figure 20.2 on page 20).
- 7. Install ash door assembly by sliding the rod at an angle into the slot on the left side (Figure 20.3 on page 20).
- 8. Slide the ash door over the 8 screws protruding from the bottom of the appliance. Secure with nuts and washers using 7/16 socket wrench (Figure 20.3 on page 20).
- 9. Install ARS latch by sliding latch assembly over 2 threaded studs protruding from the bottom on the left hand side of the appliance. Secure by using two nuts use 7/16 socket wrench (Figure 21.1 on page 21).
- 10. Add knob to handle rod (Figure 21.2 on page 21).
- 11. Use 2 bolts and two flange nuts to secure ARS channel using 3/8 open end wrench and 7/16 socket wrench (Figure 20.3 on page 20).

#### Installing Queen Anne Leg ARS Kit

- 1. Follow <u>Beginning installing the ARS system</u> instructions provided on page 21.
- 2. Install ARS Spacer on left hand side with one bolt using Phillips head screwdriver (Figure 21.4 on page 21).
- Install leg brackets and ash drawer using four screws using Phillips head screwdriver.

Start bottom two bolts through ash drawer, leg brackets and into the bottom of the appliance (Figure 23.1).

Align top holes and repeat; secure all four bolts.

- 4. Install legs onto leg brackets making sure the legs are up against the bracket and secure with bolts and washers using a 3/8 open end wrench (Figure 23.2).
- 5. Install leveling bolts into 2 legs; these leveling legs should be in opposite corners (Figure 23.2).
- 6. Carefully stand appliance up and place in desired location.
- 7. Use leveling bolts on legs to stabilize and level appliance (Figure 23.3).

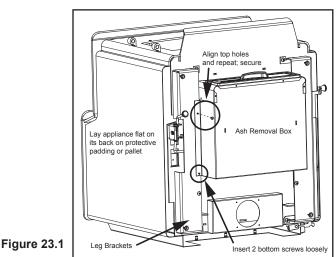
#### Finishing the ARS Installation

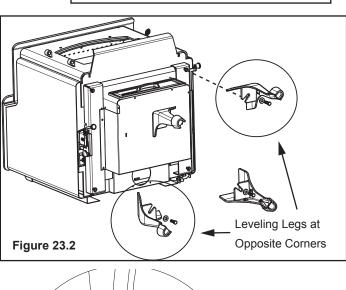
- 1. Replace 2 front bricks that were removed (Figure 23.4).
- 2. Install the ash drawer to ASH Removal receiver.
- 3. Install ARS access cover inside of ARS Channel that is located inside the firebox (Figure 23.4).

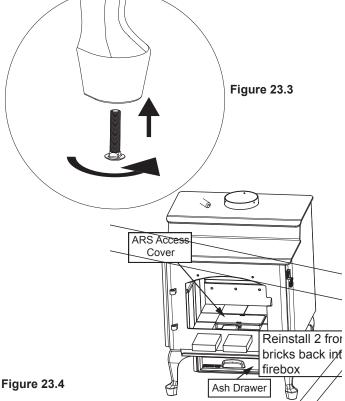


#### CHECK BAFFLE BOARDS & CERAMIC BLANKET!

- Verify that the baffle boards and ceramic blanket are in their proper locations.
- It is important that the baffle boards and ceramic blanket are correctly installed for proper burn safety.







### D. Traditional Leg Installation

**Included with Appliance**: Leg brackets; inside firebox. **Tools Required:** 9/16 socket wrench and Phillips screw driver.

Installing your traditional legs to your appliance:

- 1. Remove leg brackets from inside of firebox of appliance.
- 2. Lay body of appliance on its back on a protective pad or pallet.
- 3. Remove four screws from bottom of appliance (Figure 24.1).
- 4. Install leg brackets to bottom of appliance using the four just removed screws in step 3.
- NOTE: There is a right and a left of the leg brackets (Figure 24.1).
- 5. Install six screws to the bottom of the leg brackets (Figure 24.1).
- 6. Attach legs onto leg brackets and secure with bolts and

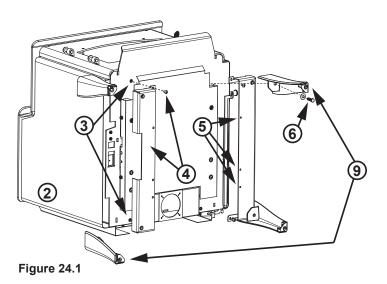
### 

Do **NOT** tilt the appliance on the cast iron legs.

- Tilting could lead to property damage.
- Lift the appliance upright and place it into position on the floor protector.

#### washers.

- 7. Carefully stand appliance up and place in desired location.
- 8. Thread Allen bolts through nuts until flush (Figure 24.2)
- 9. Slide Allen bolt/nut assemblies into slots of two of the legs with the nuts on the bottom (Figure 24.3).
- NOTE: Legs with leveling bolts need to be on opposite sides of the appliance - one in the front and one in the back (Figure 24.1)
- 10. Use Allen wrench to adjust legs up and down to desired level (Figure 24.4).



## CAUTION!

### CHECK BAFFLE BOARDS & CERAMIC BLANKET!

- Verify that the baffle boards and ceramic blanket are in their proper locations.
- It is important that the baffle boards and ceramic blanket are correctly installed for proper burn safety.

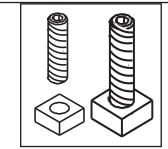


Figure 24.2

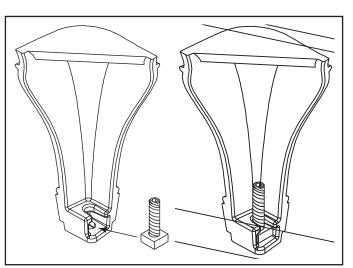
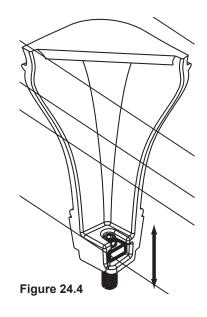


Figure 24.3

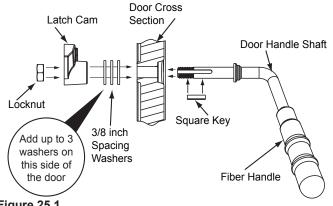


#### E. Door Handle Assembly

Installation of Door Handle:

- 1. Slide door handle shaft through hole on door.
- 2. Add up to three 3/8 washers on the inside of the door.
- **NOTE:** The quantity of washers added will change how the door seals. You many need to tear down the handle assembly a few times to gain the correct seal.
- 3. Add square key to door handle shaft; may need to use a rubber mallet to ensure key sits firmly into groove of door handle shaft.
- 4. Slide cast iron cam latch over door handle shaft and locking key.

#### **CAUTION!** DO NOT OVER TIGHTEN LOCKING NUT; DOOR HANDLE NEEDS TO MOVE SMOOTHLY!



#### Figure 25.1

#### F. 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 Kit is available.

Optional OAK-ACC includes: Termination cap, (2) wire ties, flex adapter, and fasteners

Items Needed for Installation (not supplied):

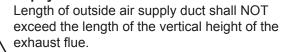
- 4 inch flex aluminum pipe, or if using alternate material, then it shall be made from durable, non-combustible, heat resistant material up to 350°F. Cut the pipe to the required length for your installation.
- Phillips head screw driver
- Silicone sealant
- Drills and saws necessary for cutting holes through the wall or flooring in your home.

Installation Instructions:

- 1. Remove all materials from packing box.
- 2. Floor & Rear Installation: Cut a 4 inch (102mm) hole in outside wall or floor to accommodate outside air piping. Use 4 inch (102mm) aluminum metal flex or rigid piping to directly connect outside air to appliance intake. Use the supplied termination cap with a rodent screen. Seal between the wall (or floor) and the pipe with silicone to prevent moisture penetration.

## WARNING

#### Asphyxiation Risk.



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

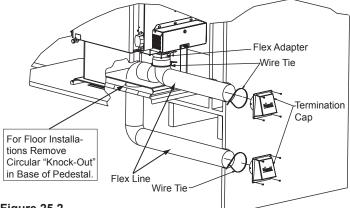
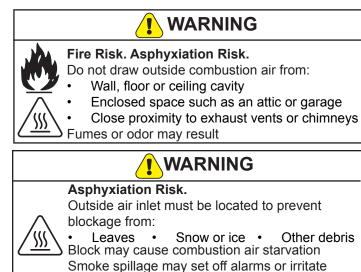


Figure 25.2



sensitive individuals.

**G. Blower (Optional)** Tools Required: #2 Phillips head screwdriver

- 1. Locate bolts supplied with the blower.
- 2. Align holes in mounting flange of blower with bolt holes in appliance. Blower should be positioned at bottom of rear outer skin as shown in Figure 26.1
- 3. Re-insert and tighten bolts, securing blower onto outer wall of appliance.
- 4. Place the bracket containing the snap disc and magnet under the bottom left rear corner.

See Owner's Manual for detailed operating instructions for the blower and snap disc.

#### H. Adjusting The Blower Speed Control

The blower speed control for this appliance is adjusted at the factory, and normally does not require further adjustment.

- 1. With the appliance plugged in, turn the speed control knob to slow (full clockwise).
- 2. With a small screwdriver, adjust the blower speed by turning the adjustment mechanism through the hole on the side of the speed control.
- 3. Adjust the speed so the blower runs slowly, but does not stop. Turn clockwise to slow the blower and counterclockwise to increase the speed.
- **NOTE:** When the speed control is turned clockwise, it will click on to high speed. Continue to turn the speed control clockwise to decrease the speed. At full clockwise, the blower should blow gently, but should not stop.

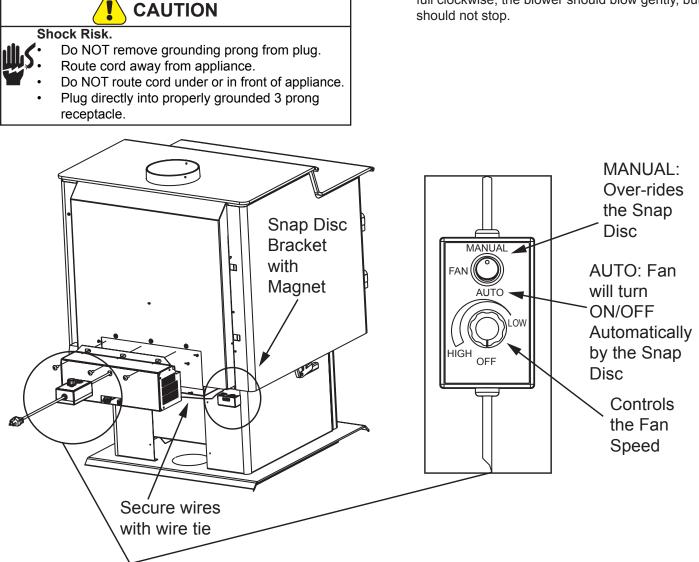


Figure 26.1

## Mobile Home Installation

You must use a Quadra-Fire Outside Air Kit Part OAK-ACC; which is available from you dealer, for installation in a mobile home.

- 1. An outside air inlet must be provided for combustion.
- 2. Appliance must be secured to the mobile home structure by bolting the legs to the floor.
- 3. Appliance must be grounded with #8 solid copper grounding wire or equivalent and terminated at each end with N.E.C. approved grounding device.
- 4. Appliance must be installed with an approved UL103 HT ventilated chimney connector, UL103 HT chimney, and terminal cap with spark arrestor. Never use a single wall connector (appliance pipe) in a mobile home installation. Use only double-wall connector pipe, Dura-Vent DVL, Selkirk Metalbestos DS or Security DL double-wall connector or any listed double-wall connector pipe.
- In Canada, this appliance must be connected to a 6 inch (152mm) factory-built chimney conforming to CAN/ ULC-629M, STANDARD FOR FACTORY BUILT CHIMNEYS.
- 6. Follow the chimney and chimney connector manufacturer's instructions when installing the flue system for use in a mobile home.
- 7. Maintain clearance to combustibles.
- 8. Floor protection requirements must be followed precisely.
- 9. Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the exterior of the structure.
- NOTE: Offsets from the vertical, not exceeding 45°, are allowed per Section 905(a) of the Uniform Mechanical Code (UMC). Offsets greater than 45° are considered horizontal and are also allowed, providing the horizontal run does not exceed 75% of the vertical height of the vent. Construction, clearance and termination must be in compliance with the UMC Table 9C. This installation must also comply with NFPA 211.
- **NOTE:** Top sections of chimney must be removable to allow maximum clearance of 13.5 feet (411cm) from ground level for transportation purposes.

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

## 

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

Do NOT cut through:

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

## WARNING



Asphyxiation Risk. NEVER INSTALL IN A SLEEPING ROOM.

Consumes oxygen in the room.

## Reference Materials

## A. Service & Maintenance Log

| Date of Service | Performed By | Description of Service |
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#### **B. 4300 Millennium Accessories**



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or

## 43M-ACC

Beginning Manufacturing Date: Oct. 2006 Ending Manufacturing Date: Active

| distributor. Hearth and Home Technologies does not sell directly to consumers. Provide model number and serial number when requesting service parts from your dealer or distributor. |   |              |             |   |  |
|--|---|--------------|-------------|---|--|
| ITEM   | DESCRIPTION                             | COMMENTS     | PART NUMBER |   |  |
| 19   | Baffle Protection Channel               |              | SRV7033-298 |   |  |
|  | Blower Assembly                         |              | BK-ACC      |   |  |
|  | Blower Control Box W/Switch             |              | SRV7000-194 | Y |  |
|  | Component Pack                          |              | 7033-051    |   |  |
|  | Snap Disc Bracket Assembly              |              | 7033-036    |   |  |
|  | Snap Disc, # 1, Convection Blower       |              | SRV230-0470 | Y |  |
|  | Wire Harness (Blower)                   |              | 7033-262    |   |  |
|  | Component Back                          | Black & Gold | 7037-014    |   |  |
|  | Component Pack                          | Nickel       | 7037-015    |   |  |
|  | Blower, Convection - Replacement Blower |              | 812-4900    | Y |  |
|  | Gasket, Manifold                        | Pkg of 4     | 7038-168/4  | Y |  |
|  |   | Gold         | 200-3180    |   |  |
|  | Logo, Quadra-Fire                       | Nickel       | 200-3240    |   |  |
|  | Paint Touch-Up                          | Black        | 812-0910    |   |  |
|  | Outside Air Kit, Floor & Rear           |              | OAK-ACC     |   |  |
|  | Outside Air Collar Assembly             |              | 7033-039    |   |  |
|  | Outside Air Shield                      |              | SRV33271    | Y |  |

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August 13, 2018
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#### C. 4300 Step Top Accessories



## 43ST-ACC-B

Beginning Manufacturing Date: Sept 2016 **Ending Manufacturing Date: Active** 

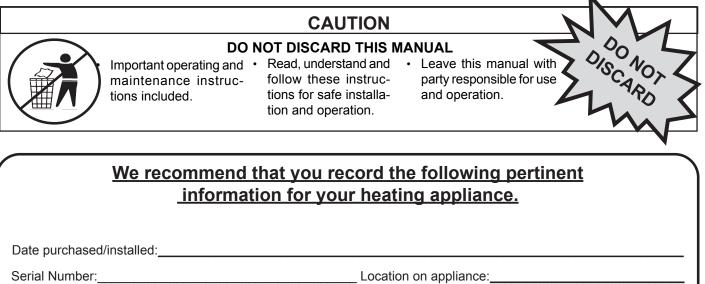
| requesting | chnologies does not sell directly to consumers. Provide model number<br>g service parts from your dealer or distributor. |           |             | Stocked<br>at Depot |
|------------|--|-----------|-------------|---------------------|
| ITEM       | DESCRIPTION  | COMMENTS  | PART NUMBER |                     |
|            | Baffle Protection Channel  |           | SRV7033-298 |                     |
|            | Blower, Convection - Replacement Blower  |           | 812-4900    | Y                   |
|            | Component Pack   |           | 7037-017    |                     |
|            | Blower Assembly  |           | BK-ACC      |                     |
|            | Blower Control Box W/Switch  |           | SRV7000-194 | Y                   |
|            | Channel, Ash Removal   |           | 7033-172    |                     |
|            | Component Pack   |           | 7033-051    |                     |
|            | Door Handle Assembly   |           | 832-0540    | Y                   |
|            | Gasket, Manifold   | Pkg of 4  | 7038-168/4  | Y                   |
|            | Logo, Quadra-Fire, Black   | Pkg of 10 | 7000-694/10 |                     |
|            | Outside Air Collar Assembly  |           | 7033-039    |                     |
|            | Outside Air Kit, Floor & Rear  |           | OAK-ACC     |                     |
|            | Outside Air Shield   |           | SRV33271    | Y                   |
|            | Paint Touch-Up   |           | 812-0910    |                     |
|            | Snap Disc Bracket Assembly   |           | 7033-036    |                     |
|            | Snap Disc, # 1, Convection Blower  |           | SRV230-0470 | Y                   |
|            | Upgrade, Door, Nickel - Nickel Handles, Hinge Pins & Logo  |           | UK-DRNL     |                     |
|            | Wire Harness (Blower)  |           | 7033-262    |                     |



#### **CONTACT INFORMATION**

Hearth & Home Technologies 352 Mountain House Road Halifax, PA 17032 **Division of HNI INDUSTRIES** 

#### Please contact your Quadra-Fire dealer with any questions or concerns. For the number of your nearest Quadra-Fire dealer log onto www.guadrafire.com



Dealership purchased from: \_\_\_\_\_\_Dealer phone: 1( ) -

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.

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