



Champlain (Model 8304)

Gas-Fired Direct Vent Heater

Owner's Manual

Operation & Installation Guide

Read This Owner's Manual

Operate and Maintain This Gas Heater
According to This Instruction Manual.

Save These Instructions!




We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

PFS File #20-639





Tested to: ANSI Z21.88-2017

CSA 2.33-2017, CSA 2.17-17

 **WARNING: FOLLOW THE INFORMATION IN THESE INSTRUCTIONS EXACTLY, IF NOT, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

 **WARNING: DO NOT STORE OR USE GASOLINE OR ANY OTHER FLAMMABLE VAPORS AND LIQUIDS NEAR THIS OR ANY OTHER GAS APPLIANCE.**

WHAT TO DO IF YOU SMELL GAS:


-  Do not try to light any appliance.
-  Do not touch electrical switches; do not use the phone in your building.
-  Immediately call your gas supplier from a phone outside the structure. Follow your gas supplier's instructions.
-  If you cannot reach your gas supplier, call the fire department or 911.


A qualified installer, service agency, or gas supplier must perform installation and service of this appliance. In the Commonwealth of Massachusetts, all installation of gas lines and gas fittings must be performed by a licensed gas fitter or licensed plumber.

California Prop 65







WARNING: This product can expose you to chemicals including glass wool fiber and carbon monoxide which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

 **AVERTISSEMENT: ASSUREZ-VOUS DE BIEN SUIVRE LES INSTRUCTIONS DONNÉ DANS CETTE NOTICE POUR RÉDUIRE AU MINIMUM LE RISQUE D'INCENDIE OU POUR ÉVITER TOUT DOMMAGE MATÉRIEL, TOUTE BLESSURE OU LA MORT.**

 **AVERTISSEMENT: NE PAS ENTREPOSER NI UTILISER D'ESSENCE NI D'AUTRE VAPEURS OU LIQUIDES INFLAMMABLES DANS LE VOISINAGE DE CET APPAREIL OU DE TOUT AUTRE APPAREIL.**

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

-  Ne pas tenter d'allumer d'appareil.
-  Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous vous trouvez.
-  Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
-  Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

L'installation et service doit être exécuté par un qualifié installer, agence de service ou le fournisseur de gaz.

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Information Sheet

Use this page to record all relevant information concerning the purchase, installation, and maintenance of your Champlain Model 8304 Direct -Vent heater. This information will facilitate servicing, purchase of replacement parts, and warranty claims (if necessary). Keep your original receipt in a safe place as proof of purchase.

Serial Number:		
Fuel type:	Natural Gas	Liquid Propane
Sold by:		Date of Purchase:
Address:		
Phone:		
E-mail		Website:
Installed by:		Date of Installation:
Address:		
Phone:		
E-mail		Website:
Gas Supplier:		
Address:		
Phone:		
E-mail		Website:

Read this Owner's Manual before installing or operating your Champlain. Retain this manual for future reference.

SERVICE RECORD

[illegible]

WHAT

Firebox Cleaning.....
Glass Cleaning.....
Gaskets.....

WHEN

annually
as needed
Replacement as needed

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SPECIFICATIONS

Testing Agency: Intertek Testing Services NA, Inc. (ITS)

Listing Agency: PFS TECO

Listed: Direct Vent Gas Heater

Model: Champlain Model 8304

Tested to: ANSI Z21.88-2017 / CSA 2.33-2017

Certified for Canada, CSA 2.17-2017

Approved for Mobile Home Installation

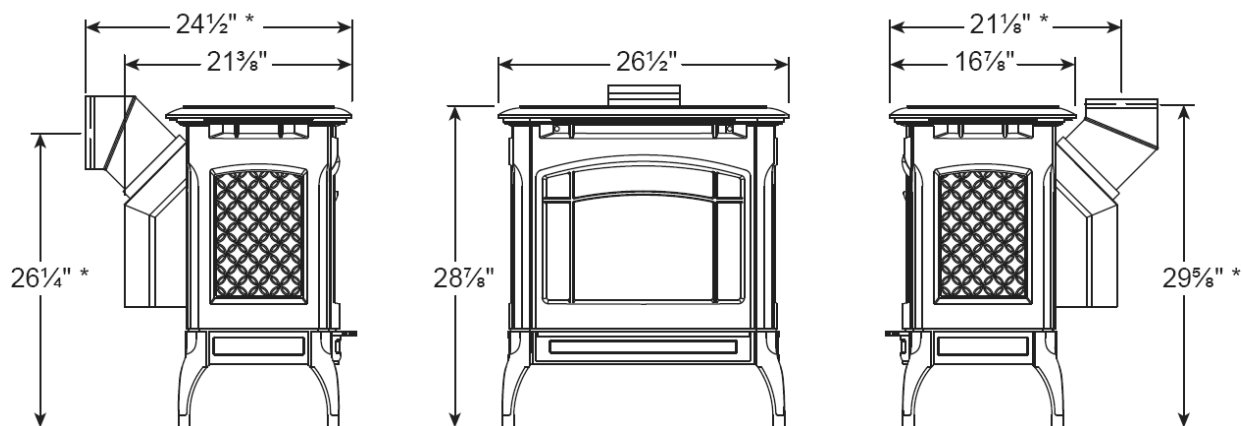
Certified for use by:

Board of State Examiners of Plumbers and Gasfitters
100 Cambridge Street, Room 1511
Boston, Massachusetts 02202

Manufactured and Warranted by:

Hearthstone Quality Home Heating Products, Inc.

317 Stafford Ave.
Morrisville, VT 05661-8695, USA
www.hearthstonestoves.com



*Shown with 45° elbow venting. Dimensions may vary depending on venting manufacturer.

Figure 1 Champlain DV Dimensions

Specification	NG	LP
Input rating (Btu/hr) 0-2000 ft	35,000	35,000
Input rating (Btu/hr) 2000-4500 ft	35,000	35,000
Orifice size (DMS) 0-2000 ft	31	50
Orifice size (DMS) 2000-4500 ft	31	50
Man. press. – LO setting (in.w.c./kPa)	1.3/0.32	3.2/0.8
Man. press. – HI setting (in.w.c./kPa)	3.5/0.87	9.7/2.42
Inlet press. – Minimum (in.w.c./kPa)	5.0/1.24	11.0/2.74
Minimum input rating (Btu/hr)	21,000	21,000

INTRODUCTION

Congratulations on your purchase of the Champlain Model 8304, Gas-Fired Direct-Vent heater. The Champlain, by Hearthstone, incorporates the latest in direct vent gas technology, which will provide you with clean, efficient heat for years to come. The enameled or painted cast iron gives the Champlain a pleasing look that is maintained with minimum care.

The Champlain will provide you with years of practical and convenient service. However, as with any gas appliance, the unit must be properly and safely installed and maintained by qualified service personnel to ensure safe and trouble-free operation.

CHAMPLAIN MODEL 8304 FEATURES:

1. SIT 820 valve system
2. 6-piece log set
3. Safety Barrier Screen
4. Platinum Bright Embers.
5. Optional blower

Part #	Description
8304-0010NP	Matte Black
8304-0020NP	Brown Enamel

Read this Owner's Manual

Operate and maintain this gas heater according to the instructions in this manual. For your safety, and years of trouble free operation, read this manual in its entirety.

Heater Must Be Installed and Maintained By Qualified Service Personnel

Verify the gas connections and venting systems meet the requirements of local, regional or national installation codes. Qualified service personnel must inspect the gas heater before use, and at least annually.

Manufactured & warranted by:


Hearthstone Quality Home heating Products, Inc.

317 Stafford Ave.
Morrisville, VT 05661
www.hearthstonestoves.com
inquiry@hearthstonestoves.com

SAFETY INFORMATION

Your Champlain is an attractive and extremely efficient heater, utilizing today's best technologies. By following a few simple safety precautions and by performing minimal maintenance, the unit will remain appealing while providing years of quality performance.

The installation must conform to local codes or, in the absence of local codes, the current National Fuel Gas Code, ANSI Z223.1 (NFPA 54) or CAN/CGA B149 Installation Code. (*Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les Codes d'installation CAN/CGA B149.*)

 **CAUTION: DO NOT USE THIS APPLIANCE IF ANY PART WAS UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE HEATER AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND GAS CONTROL THAT HAS BEEN UNDER WATER. (NE PAS SE SERVIR DE CET APPAREIL S'IL A ÉTÉ PLONGÉ DANS L'EAU, COMPLÈTEMENT OU EN PARTIE. APPELER UN TECHNICIEN QUALIFIÉ POUR INSPECTER L'APPAREIL ET REMPLACER TOUTE PARTIE DU SYSTÈME DE CONTRÔLE ET TOUTE COMMANDE QUI ONT ÉTÉ PLONGES DANS L'EAU.)**

During the first few hours of operation the appliance may produce smoke and/or odor. This is normal during the first several burns and also after long periods when the stove is not burned. During these initial burns, open a window(s) to assist in the removal of the smoke/odor.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig. (3.5k Pa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5k Pa).

Fire Hazard

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this appliance. Locate the Champlain out of traffic areas and away from furniture, draperies, clothing, and flammable material.

Vent Only to the Outside. Never vent the gas heater to other rooms or buildings.

Service Caution

If you believe your Champlain is not, in any way, performing properly, immediately discontinue operation until the unit is inspected and approved by




qualified service personnel. Prior to servicing the unit, turn the gas to the valve off, and disconnect any electrical source. Ensure the unit is cool prior to servicing and cleaning. Replace any safety screen, guard, or component removed during servicing prior to operation. Use of any components not supplied by Hearthstone on the stove voids all warranties. **Do not substitute components.**

Proper Fuel

This gas heater is designed to burn natural gas (NG) or with conversion, liquid propane (LP). Never burn any fuel gas not intended for use with this unit. Never burn paper, wood, or other materials in this appliance.

This heater is factory equipped to burn natural gas (NG). To burn propane (LP), you must install the included LP conversion kit #93-56030






This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used. *Cet appareil doit être utilisé uniquement avec les types de gas indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gas sauf si un kit de conversion certifié est installé.)*

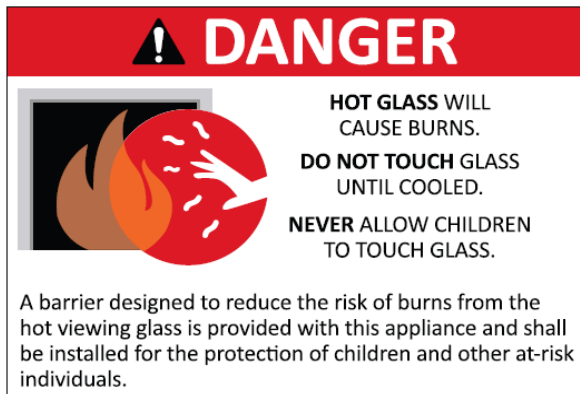
-  **WARNING: THIS GAS APPLIANCE MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVING A SEPARATE GAS OR SOLID-FUEL BURNING APPLIANCE**
-  **WARNING: DO NOT OPERATE THE APPLIANCE WITH THE FRONT GLASS REMOVED, CRACKED, OR BROKEN. REPLACEMENT OF GLASS SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. ONLY OPEN FRONT FOR ROUTINE SERVICE. DO NOT SLAM FRONT OR STRIKE GLASS.**
-  **WARNING: HEARTHSTONE RECOMMENDS THAT ONLY AN NFI CERTIFIED SERVICE TECHNICIAN INSTALLS, AND REPAIRS THIS APPLIANCE. A QUALIFIED SERVICE TECHNICIAN MUST INSPECT THE APPLIANCE BEFORE USE, AND AT LEAST ANNUALLY. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, PETS, ETC. IT IS IMPERATIVE THAT THE CONTROL COMPARTMENTS, BURNERS, AND CIRCULATING AIR PASSAGES OF THE APPLIANCE ARE KEPT CLEAN AND FREE OF OBSTRUCTIONS. (S'ASSURER QUE LE BRÛLEUR ET LE COMPARTIMENT DES COMMANDES SONT PROPRES. VOIR LES INSTRUCTIONS D'INSTALLATION ET D'UTILISATION QUI ACCOMPAGNENT L'APPAREIL.)**

Hot Surfaces

PREVENT THE ACCUMULATION OF DUST AND LINT.

Certain exposed surfaces of the Champlain will reach high temperatures during normal operation. Clearances to combustibles must be maintained, as specified in the "Clearances To Combustibles" section of this manual.

-  **DUE TO HIGH TEMPERATURES THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE, DRAPERIES, CLOTHING AND FLAMMABLE MATERIALS. EN RAISON DES TEMPÉRATURES ÉLEVÉES, L'APPAREIL DEVRAIT ÊTRE INSTALLÉ DANS UN ENDROIT OÙ IL Y A PEU DE CIRCULATION ET LOIN DU MOBILIER ET DES TENTURES**
-  **CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS TO SKIN OR CLOTHING IGNITION. LES ENFANTS ET LES ADULTES DEVRAIENT ÊTRE INFORMÉS DES DANGERS QUE POSENT LES TEMPÉRATURES DE SURFACE ÉLEVÉES ET SE TENIR À DISTANCE AFIN D'ÉVITER DES BRÛLURES OU QUE LEURS VÊTEMENTS NE S'ENFLAMMENT.**
-  **CAREFULLY SUPERVISE YOUNG CHILDREN WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE. TODDLERS, YOUNG CHILDREN, AND OTHERS MAY BE SUSCEPTIBLE TO ACCIDENTAL CONTACT BURNS. A PHYSICAL BARRIER IS RECOMMENDED IF THERE ARE AT RISK INDIVIDUALS IN THE HOUSE. TO RESTRICT ACCESS TO A FIREPLACE OR STOVE, INSTALL AN ADJUSTABLE SAFETY GATE TO KEEP TODDLERS, YOUNG CHILDREN, AND OTHER AT RISK INDIVIDUALS OUT OF THE ROOM AND AWAY FROM HOT SURFACES. LES JEUNES ENFANTS DEVRAIENT ÊTRE SURVEILLÉS ÉTROITEMENT LORSQU'ILS SE TROUVENT DANS LA MÊME PIÈCE QUE L'APPAREIL. LES TOUT PETITS, LES JEUNES ENFANTS OU LES ADULTES PEUVENT SUBIR DES BRÛLURES S'ILS VIENNENT EN CONTACT AVEC LA SURFACE CHAUDE. IL EST RECOMMANDÉ D'INSTALLER UNE BARRIÈRE PHYSIQUE SI DES PERSONNES À RISQUES HABITENT LA MAISON. POUR EMPÊCHER L'ACCÈS À UN FOYER OU À UN POÊLE, INSTALLEZ UNE BARRIÈRE DE SÉCURITÉ; CETTE MESURE EMPÊCHERA LES TOUT PETITS, LES JEUNES ENFANTS ET TOUTE AUTRE PERSONNE À RISQUE D'AVOIR ACCÈS À LA PIÈCE ET AUX SURFACES CHAUDES.**
-  **CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE. ON NE DEVRAIT PAS PLACER DE VÊTEMENTS NI D'AUTRES MATIÈRES INFLAMMABLES SUR L'APPAREIL NI À PROXIMITÉ.**
-  **CLEAN THE AREA AROUND, UNDER, AND BEHIND THE UNIT ON A REGULAR BASIS TO**



Ceramic Logs, Burner, & Baffle

If the decorative ceramic log or burner material supplied with the Champlain is damaged or parts are missing, they must be replaced with the same, or approved Hearthstone replacement parts. These components affect the combustion quality and safety of the heater. Do not replace ceramic logs, the burner, or baffle with unapproved ceramic components or any other material. We recommend you always wear gloves and safety goggles while handling the ceramic log set and burner materials.

Electrical Hazard

If present, any three-prong grounded plug must be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from any plug or otherwise attempt to circumvent the grounding protection provided with the unit. The Stowe must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 in the U.S. or CSA C22.1 Canadian Electrical Code in Canada.

Do Not Light Pilot or Burner by Hand

The pilot light on this gas heater is lit by using the remote control as described elsewhere in this manual.

Never attempt to light the pilot or main burner by hand with a match or lighter.

INSTALLATION PREPARATION

CODES

Adhere to **all local codes** or, in their absence, the latest edition of THE NATIONAL FUEL GAS CODE ANSI Z223.1 (NFPA 54) or CAN/CGA B149 (*Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les Codes d'installation CAN/CGA-B149.*)

Installation Codes can be obtained from:

AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

1430 BROADWAY
NEW YORK, NY 10018
www.ansi.org

NATIONAL FIRE PROTECTION ASSOCIATION, INC.

BATTERY MARCH PARK
QUINCY, MA 02269
www.nfpa.org

The appliance when installed must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current NFPA 70-National Electrical Code or CSA C22.1-Canadian Electric Code.

Mobile Home Installations

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only), where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gasses, unless a certified kit is used.

A manufactured home (mobile) OEM installation must conform to the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (U.S.) or Standard for Manufactured Home Installation, ANSI/NCBCS A225.1 or Standard for Gas Equipped Recreational Vehicles and mobile Housing, CSA Z240.4.CAN/SCA Z240 MH (Canada). This appliance is only for use with the type(s) of gas indicated on the rating plate. *Cet appareil peut être installé comme du matériel d'origine dans une maison préfabriquée (É.-U. seulement) ou mobile et doit être installé selon les*

instructions du fabricant et conformément à la norme Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 aux États-Unis ou à la norme CAN/CSA-Z240 Série MM, Maisons mobiles au Canada. Cet appareil doit être utilisé uniquement avec les types de gaz indiqués sur la plaque signalétique.

This appliance is equipped for use at 0 to 2000 feet (0-610 meters) altitude. *(Cet appareil est équipé pour des altitudes comprises entre 0 et 2000 pieds (0-610 m) seulement.)*

Items Required for Installation

- 🔧 External regulator (for propane (LP) only)
- 🔧 LP conversion kit (for propane only)
- 🔧 Piping which complies with local codes
- 🔧 Pipe sealant approved for use with propane (LP) (resistant to sulfur compounds).
- 🔧 Manual shutoff valve
- 🔧 Sediment trap (see page 18)
- 🔧 Pipe wrench
- 🔧 Phillips head screwdriver
- 🔧 7/16-inch wrench
- 🔧 5/23" (4mm) allen wrench
- 🔧 Other parts as required by local code
- 🔧 Safety Glasses
- 🔧 Gloves

Packing List

- 1- Champlain 8304 Gas-Fired Heater
- 1- Pan Burner
- 1- Owner's Packet (manual, warranty card)
- 1- LP Conversion Kit
- 6- Decorative Ceramic Logs (in separate box)
- 1- Bag of Platinum Bright Embers

- 🔧 Note: Vent kits and components are supplied separately. Failure to use the venting components approved by Hearthstone for this appliance will void your warranty.

Unpacking and Inspection

Hearthstone packages your Champlain to withstand normal shipment without damage. However, damage can still occur during transit. Take care to inspect for damage when unpacking and installing the unit.

- 🔧 **DO NOT INSTALL, OR PUT INTO SERVICE, A DAMAGED OR INCOMPLETE HEATER.**

Remove the shrink-wrap and other packaging materials taking care not to damage the stove's finish. Inspect the Champlain for visible or concealed damage. The unit should be square and true. The

sheet metal parts should be smooth and free of bends and dents. Any enameled cast iron should be free of chips or cracks. If visible or concealed damage is found or suspected, contact your dealer for instructions.

Always use gloves and eye protection when handling the decorative ceramic fire logs and burner. Use care when handling these parts as they are fragile and subject to damage and breakage if handled roughly. See the firebox access instructions on page 9. Unpack and inspect the logs for damage. Inspect the metal burner as well. Open the other boxes and inspect the components. If log, burner or any other component damage is encountered, contact your dealer for a replacement. Otherwise, set the logs and other components aside until called for during the installation.

Dismounting from Pallet

With the accessory boxes removed and set aside, remove the four lag screws that fasten the unit to the pallet. Take care not to mar or chip the stove's finish.

Have someone help lift the stove off the pallet, taking care to avoid damaging components mounted under the stove.

INSTALLER: Leave this manual with the appliance.

INSTALLATEUR : Laissez cette notice avec l'appareil.

CONSUMER: Retain this manual for future reference.

CONSOMMATEUR : Conservez cette notice pour consultation ultérieure

Firebox Access

1. Remove top of the stove (lift off). Set carefully aside on a soft surface.



Figure 2 –Top Removal

2. Release the front panel by lifting up and off of the stove body. Set aside on a soft surface.



Figure 3 – Front Panel Removal

3. Remove glass by rotating retention clips up until clear of the clip slot. Lean the glass away from the firebox at the top and pick straight up off of the stove.

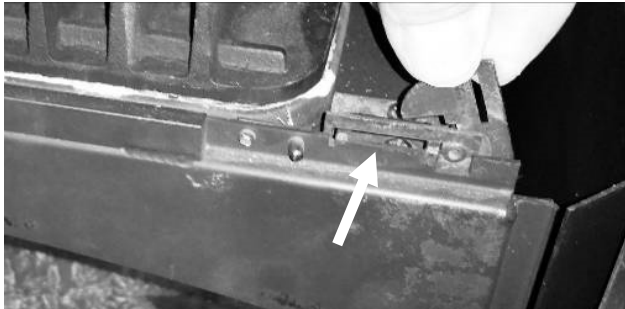


Figure 4 – Glass Removal

4. Reinstall by reversing the previous steps.

Clearances to Combustibles

- 🔥 Note: Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier. *Dégagement conforme aux codes*

d'installation locaux et aux exigences du fournisseur de gaz.

- 🔥 Due to high surface temperatures, locate the unit out of traffic areas and away from furniture and draperies. Do not place clothing and other flammable material on or near the heater. When positioning the unit always maintain adequate clearances around air openings into the combustion chamber and allow for adequate ventilation. Minimum clearances to combustibles must be maintained as shown in Figures 5 - 8.

Note: The rear clearance to combustibles is determined by either the unit's or the vent pipe's minimum clearance, depending on whether the installation calls for vertical rise within the room or a rear exit, through-the-wall vent pipe. Ensure you consider the need for access to the gas control valve access door on the front of the unit as well as full access for periodic cleaning and servicing. Also consider clearance for the blower assembly if present, or planned in the future

- 🔥 **CAUTION: THESE CLEARANCES REPRESENT MINIMUM DISTANCES IN ALL CASES, WHICH, THROUGH TESTING IN AN INDEPENDENT LABORATORY TO ANSI AND CSA STANDARDS, WILL PREVENT FIRE OR SPONTANEOUS COMBUSTION. WE DO NOT CONTROL THE COMBUSTIBLE MATERIALS EXPOSED TO HEAT BY THIS PRODUCT; THEREFORE, AN ASSESSMENT MUST BE MADE BY THE INSTALLER TO PREVENT CONSEQUENTIAL DAMAGE OF WALLS AND FLOORING.**

Hearth Requirement/Floor Protection

You can place the Champlain directly on any non-combustible surface or on a wood floor. When placing the Stove on any other type of combustible surface you must install a panel made of metal, wood, stone, or glass under the appliance. The panel must extend the full width and depth of the appliance. Installations must meet all local codes.

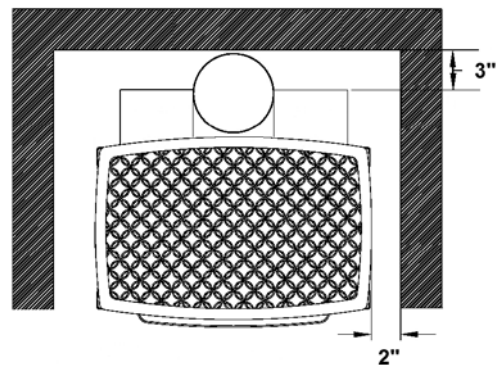


Figure 5 - Minimum Wall Clearances Horizontal Vent

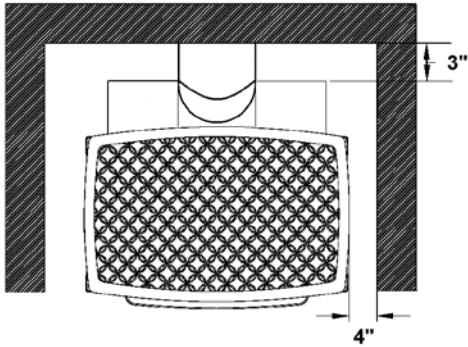


Figure 6 – Minimum Snorkel Wall Clearances

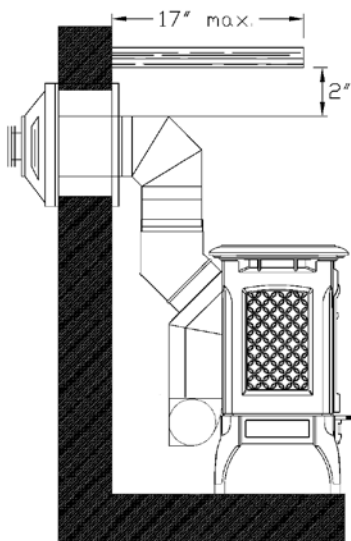


Figure 7 - Horizontal Vent Mantle Clearance

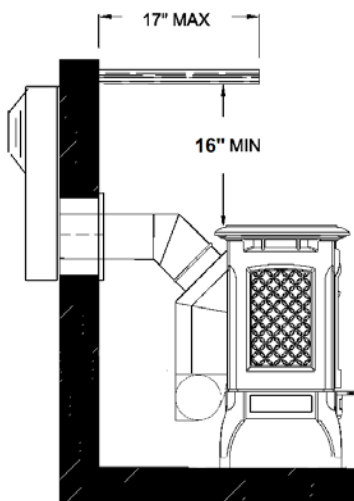


Figure 8 - Snorkel Termination Mantle Clearance

The corner clearance for the Champlain 8304 is 4", measured from the edge of the firebox to the adjacent wall.

Venting Components & Configuration

Do not vent the Champlain jointly with any other solid fuel or gas appliance. Vent the stove directly to the outside of the building using a proper termination as listed in this manual. The only types of venting pipe approved for use with your Champlain Direct-Vent stove are those listed in this manual. The venting configuration diagram is shown in *Figures 9 - 13*. After determining the proper venting configuration for your stove, select the vent system that will accommodate your installation.

CAUTION: ENSURE NO WIRING OR PLUMBING IS IN THE CHOSEN LOCATION.

CAUTION: DO NOT RECESS VENTING TERMINATIONS INTO A WALL OR SIDING.

Note: If you need further direction for installation, please refer to the venting instructions provided with the venting components.

Vent Connection

The Champlain Direct Vent Model 8304 is approved for installation only with the vent connecting components listed in this manual. Use the following instructions along with the pipe manufacturer's instructions to complete the installation.

The starter collar is factory installed. Install the rest of the vent system according to the manufacturer's instructions.

Specified Venting Manufacturers

This heater is approved for installation only with the venting components provided by manufacturers listed on this page.

Simpson Dura-Vent, Inc.
P.O. Box 1510
Vacaville, CA 95696-1510 800-835-4429

American Metal Products (*AmeriVent*)
8601 Hacks Cross Rd.
Olive Branch, MS 38654 800-423-4270

Selkirk Corporation
1301 W. President George Bush Hwy, Suite 330
Richardson, TX 75080-1139 800-992-8368

Security Chimneys International Ltd (*Secure Vent*)
 2125 Monterey, Laval, Quebec
 Canada, H7L 3T6 450-973-9999

ICC, Inc.
 400 J-F Kennedy, St. Jerome, Quebec
 Canada, J7Y 4B7 450-565-6336

Metal-Fab, Inc.
 P.O. Box 1138
 Wichita, Kansas 67201 316-943-2351

Acceptable Direct-Vent Termination Cap Roof Locations

The vent/air intake termination clearances above the high side of an angled roof as follows:

Roof Pitch	Feet	Meters
Flat to 6/12	1	0.3
7/12 to 9/12	2	0.6
10/12 to 12/12	4	1.2
13/12 to 16/12	6	1.8
17/12 to 21/12	8	2.4

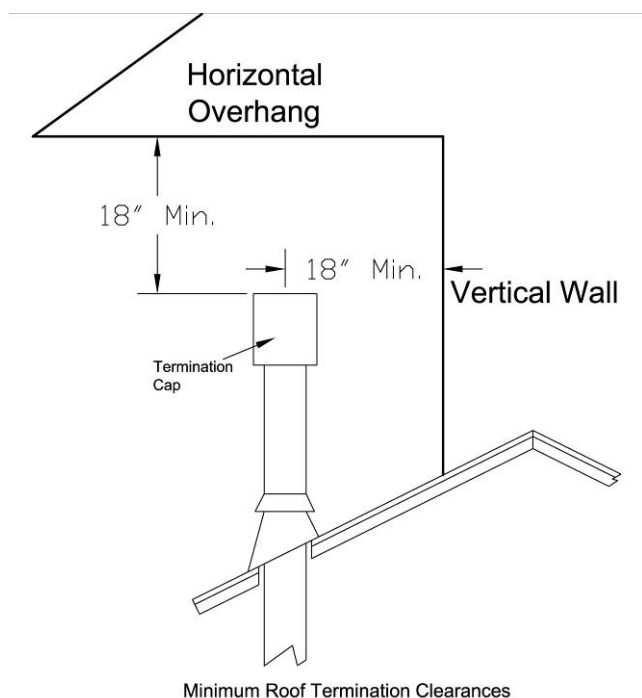


Figure 9: Termination Cap clearances

Approved Venting System Components

(The following are components that are available, BUT NOT necessary for all installations)

90° Elbow	Vertical Vent Cap
45° Elbow	36" Snorkel
6" Straight	Vinyl Siding Standoff 4" x 6 5/8"
9" Straight (Simpson only)	
12" Straight	Round Ceiling Support
24" Straight	Thimble Covers
36" Straight	Wall thimble
48" Straight	Horizontal Vent Cap
11"-14 5/8" Adjustable Pipe	

Chimney Liner System

Direct-Vent Chimney Liner Termination Kit

Chimney Liner Flex

Co-Linear Flex Connector

Axial to Co-Linear Appliance Connect (Masonry approved, not to exceed 16' measured from stove top).

🔥 **IF THE VENT SYSTEM IS DISASSEMBLED FOR ANY REASON, IT MUST BE REINSTALLED PER THE INSTRUCTIONS PROVIDED FOR IN THE INITIAL INSTALLATION OR IN THIS MANUAL.**

Vent Configuration Options

I. STANDARD HORIZONTAL INSTALLATION

🔥 **Note:** Install the 45° elbow over the outer collar. Place the elbow so that the twist lock end is pointing straight up. Install the 2' pipe section into this elbow by fully inserting it, and turning approximately ¼ turn clockwise until the two sections are fully locked. Install the 90° elbow in similar fashion with the opening pointing to the rear.

🔥 **Note:** Ensure there is no wiring or plumbing in the chosen wall location.


Move the stove and pipe assembly back until the 90° elbow is flush to the wall. Ensure the 2' vertical pipe is still parallel to the wall. Draw a circle around the pipe where it touches the wall. Use the center of this circle as the center point of the 10" x 10" square wall pass through.

Cut and frame the wall for the vent pipe. Install the horizontal vent termination on the outside of the wall. Ensure both of the retaining straps extend through the wall pass through to the inside of the wall.

Before attaching the vent termination to the outside of the house, run a bead of non-hardening mastic around the outside edges, between the vent termination and the wall. The arrow on the end cap should point up. Secure the cap to the wall with the appropriate screws.

Put the adjustable (11"-14") pipe into the horizontal vent cap, (the vent pipe must extend into the horizontal vent cap a minimum of 1 1/4"). Move the stove and vent pipe into position, insert the adjustable (11"-14") pipe into the 90° elbow, twist lock it.

Secure the straps from the horizontal vent termination to the interior pipe with two sheet metal screws, keeping the screws as close to the wall thimble as possible. Bend or cut the excess strapping so the thimble cover will fit properly. Screw the thimble cover to the wall.

 **The adjustment range for wall thickness for this configuration is 3"min to 9"max.**

II. FIREPLACE VENTING INSTALLATIONS

- 40' maximum system height (without offsets)
- 14' maximum offset (refer to Figures 10 - 11)
- Maximum rise to run = 1 to 5 (refer to Figures 10 - 13)
- The termination must meet the requirements outlined in Figures 7 - 9.

Champlain Vertical Venting Using:	
<ul style="list-style-type: none"> - A Chimney as an Air Inlet Adaptor - A Co-linear Adaptor - A Co-axial Adaptor 	
V (FT)	H (FT)
10' MIN. _____	1.5' MAX.
40' MAX. _____	1.5' MAX.
$H_1 + H_2 = H \text{ (FT)}$	
V + H = MAXIMUM ALLOWABLE VENT LENGTH	
FOR CORRECT DRAFT, HORIZONTAL VENTING MUST RISE 1/4" - 1/2" PER FOOT OF RUN.	
RESTRICTOR PLATE IN POSITION (1) FULLY OPEN	
DO NOT INCLUDE EXIT ADAPTER AS AN ELBOW.	

Figure 10: Vertical Venting Rules

III. Vertical Termination Venting Configurations

-40' maximum system height (without offset)

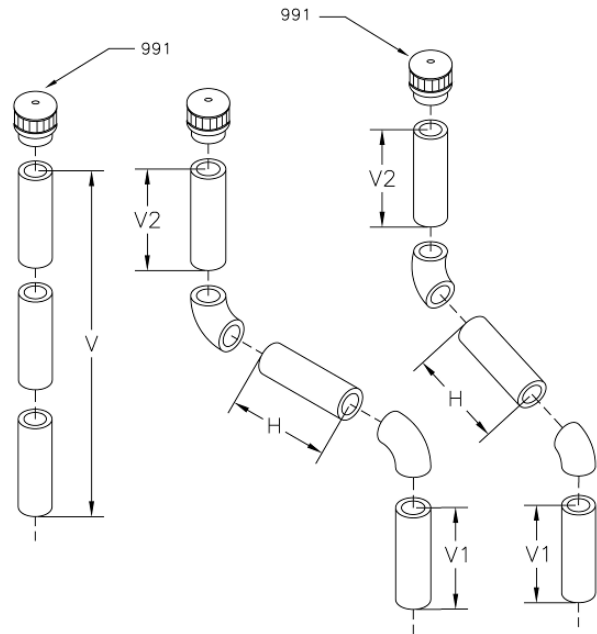


Figure 11: Approved DV Vertical Co-Axial Termination Configurations

IV. HORIZONTAL TERMINATION VENTING CONFIGURATIONS

- A minimum of 24" rise is required (with or w/o offsets)
- 40' maximum system height (without offsets)
- Maximum rise to run = 1 to 5
- The termination must meet the requirements outlined in Figures 7 - 9. Use a vinyl siding stand off when installing against vinyl siding.
- Horizontal sections require a 1/4" rise every 12" of horizontal run.
- For each 90° elbow after the second, remove 5' from horizontal run.
- Use with snorkel termination 45" maximum horizontal run

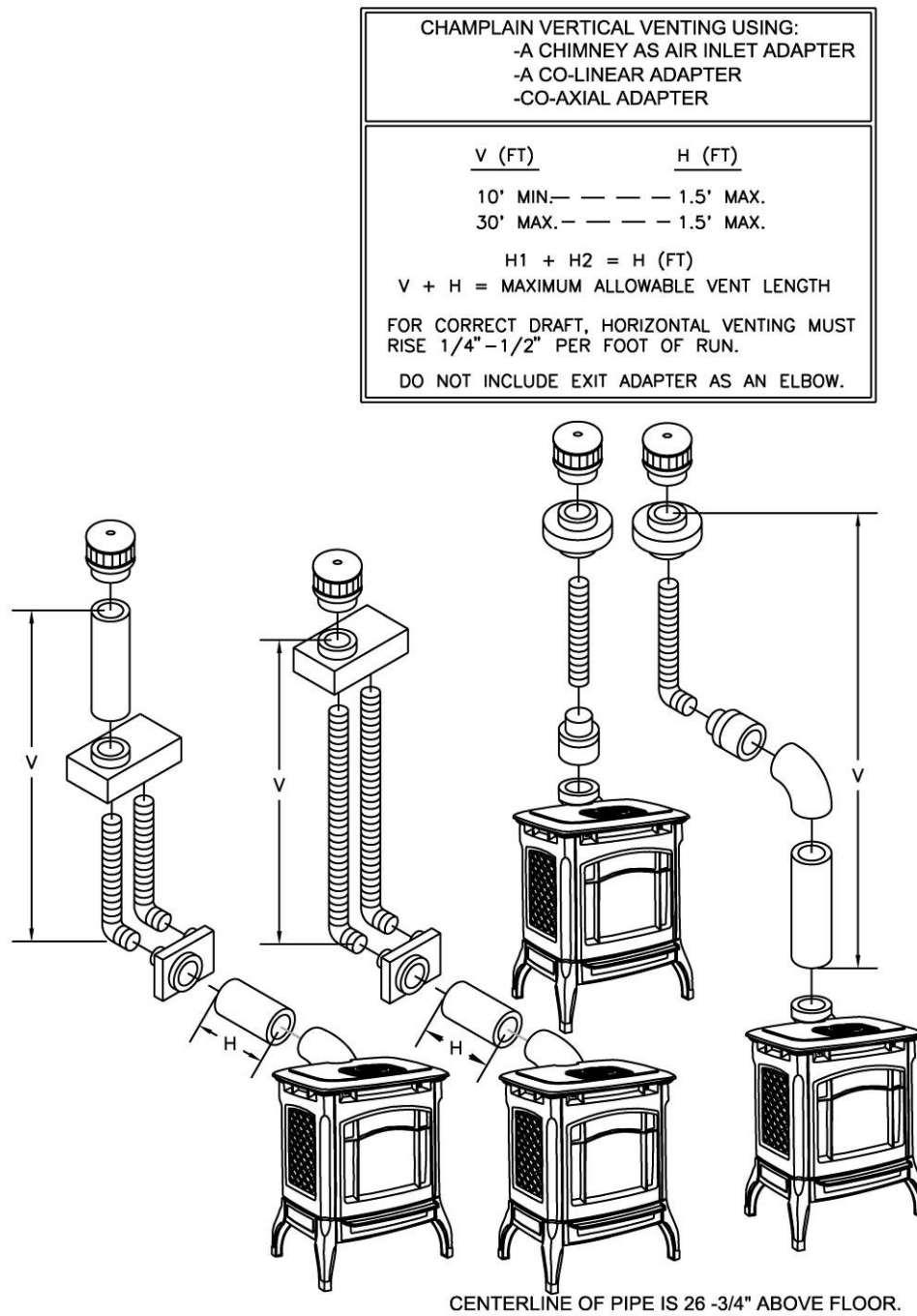


Figure 12: Approved DV Venting Alternate Configurations for Vertical Termination

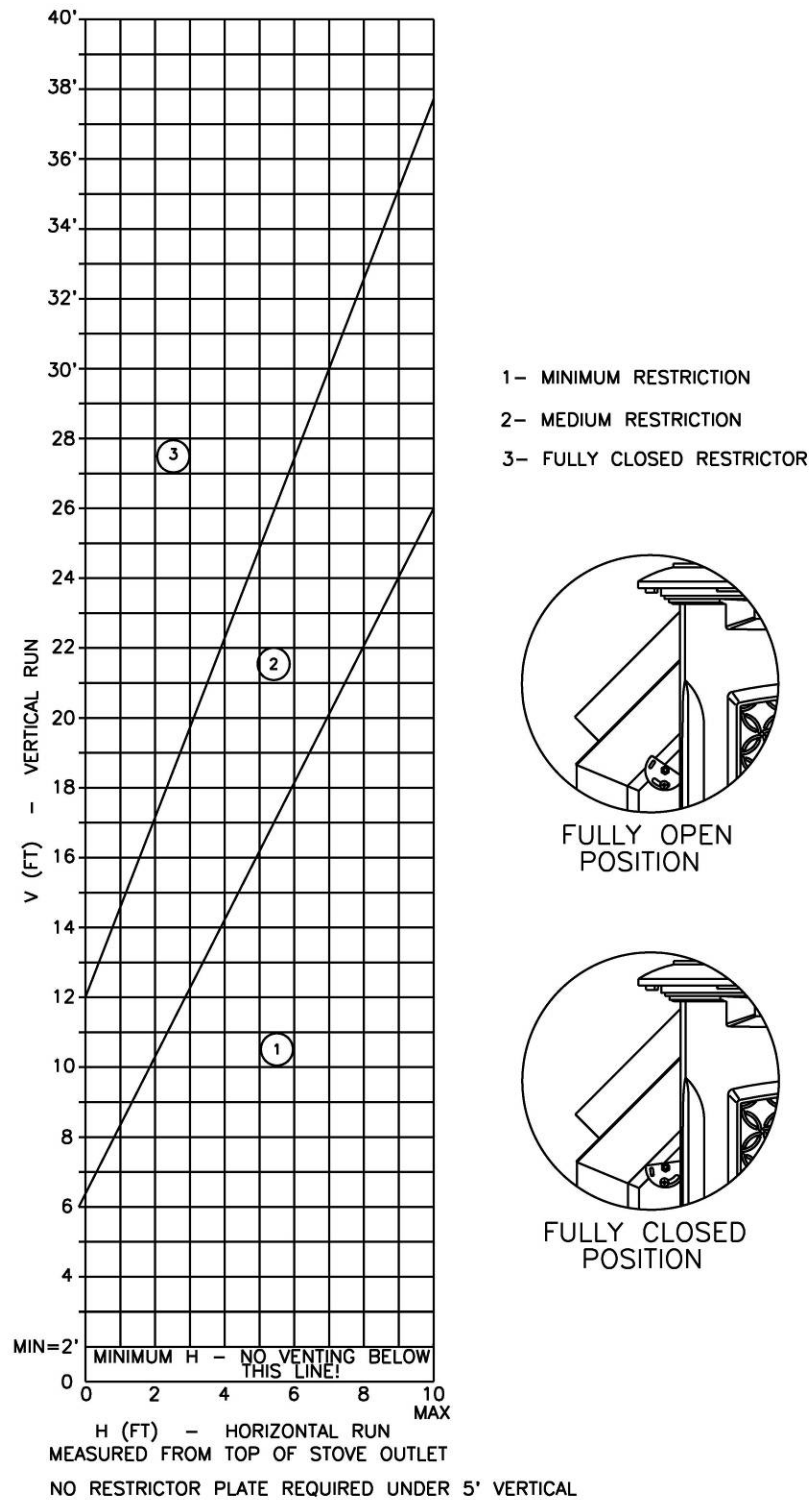


Figure 13: Venting Configuration and Restrictor Settings*

* To adjust your restrictor for optimum flame appearance, follow the instructions in Restrictor Plate, p.23

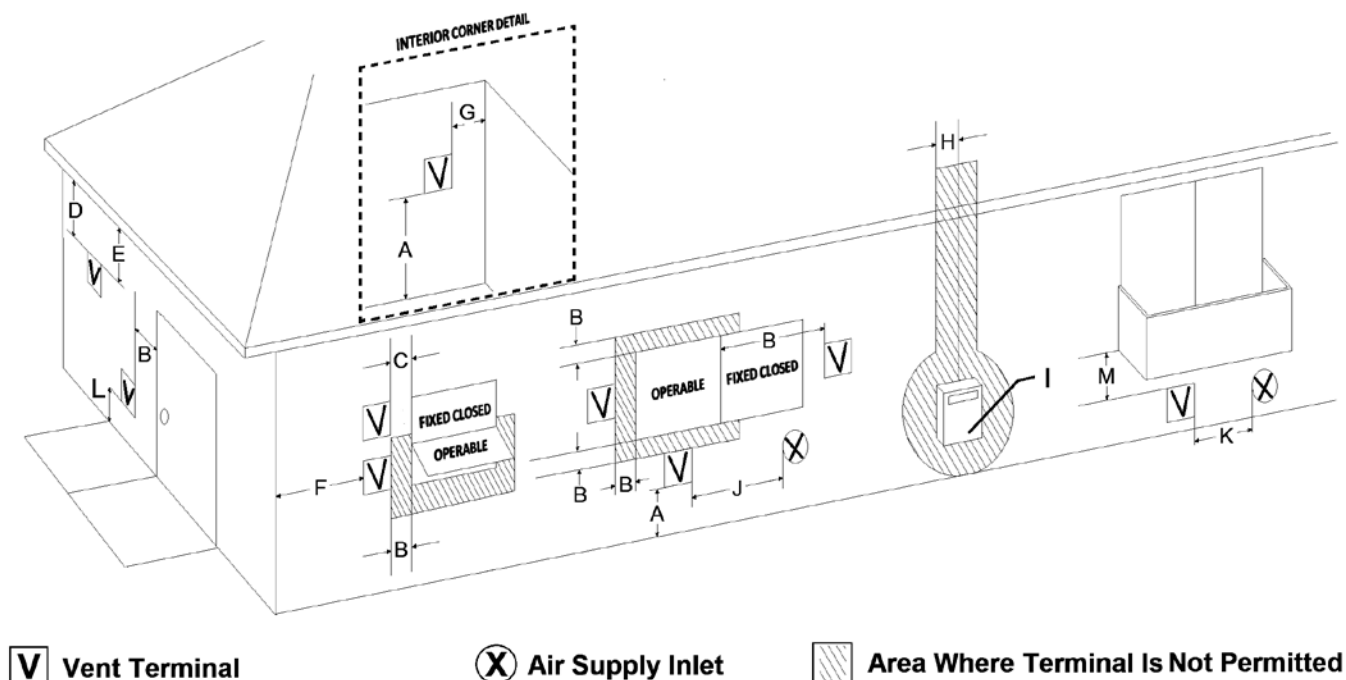


Figure 14 - Acceptable Direct Vent Terminal Vent Cap Locations

A = Clearance above grade, veranda, porch, deck, or balcony: 12 inches (30cm) minimum.

B = Clearance to window or door that may be opened: **Min. 9 inches U.S./*12 inches (30cm) CAN. We recommend 12 in, minimum to prevent condensation on the window.

C = Clearance to permanently closed window:
 **Min. 9 inches, U.S./*12 inches (30cm) CAN.

We recommend 12 in. minimum to prevent condensation on the window.

D = Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (60cm) from the center line of the termination: 18 inches (46cm) minimum.

E = Clearances to unventilated soffit: 12 inches (30cm) minimum.

F = Clearance to outside corner: **Min. 9 inches, U.S./12 inches (30cm) CAN. We strongly recommend 12 inches, particularly where windy conditions prevail.

G = Clearance to inside corner: **Min. 6 inches, U.S./12 inches (30cm) CAN. We strongly recommend 12 inches, particularly where strong winds prevail.

H = *Not to be installed within 15 feet (4.5m) above a meter/regulator assembly within 3 feet (91cm) horizontally from the center line of the regulator.

I = Clearance to service regulator vent: 3 feet (91cm)

J = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: 12inches (30cm) minimum.

K = Clearance to a mechanical air supply inlet:
 **Min. 3 feet (91cm) above if within 10 feet
 horizontally, U.S./*6 feet (1.83m) CAN minimum.

L = ¹Clearance above paved sidewalk or a paved driveway located on public property: 7 feet (2.1m) minimum.

M = ²Clearance under veranda, porch, deck, or balcony: 12 inches (30cm) minimum.

**In accordance with CSA B149 Installation codes.*

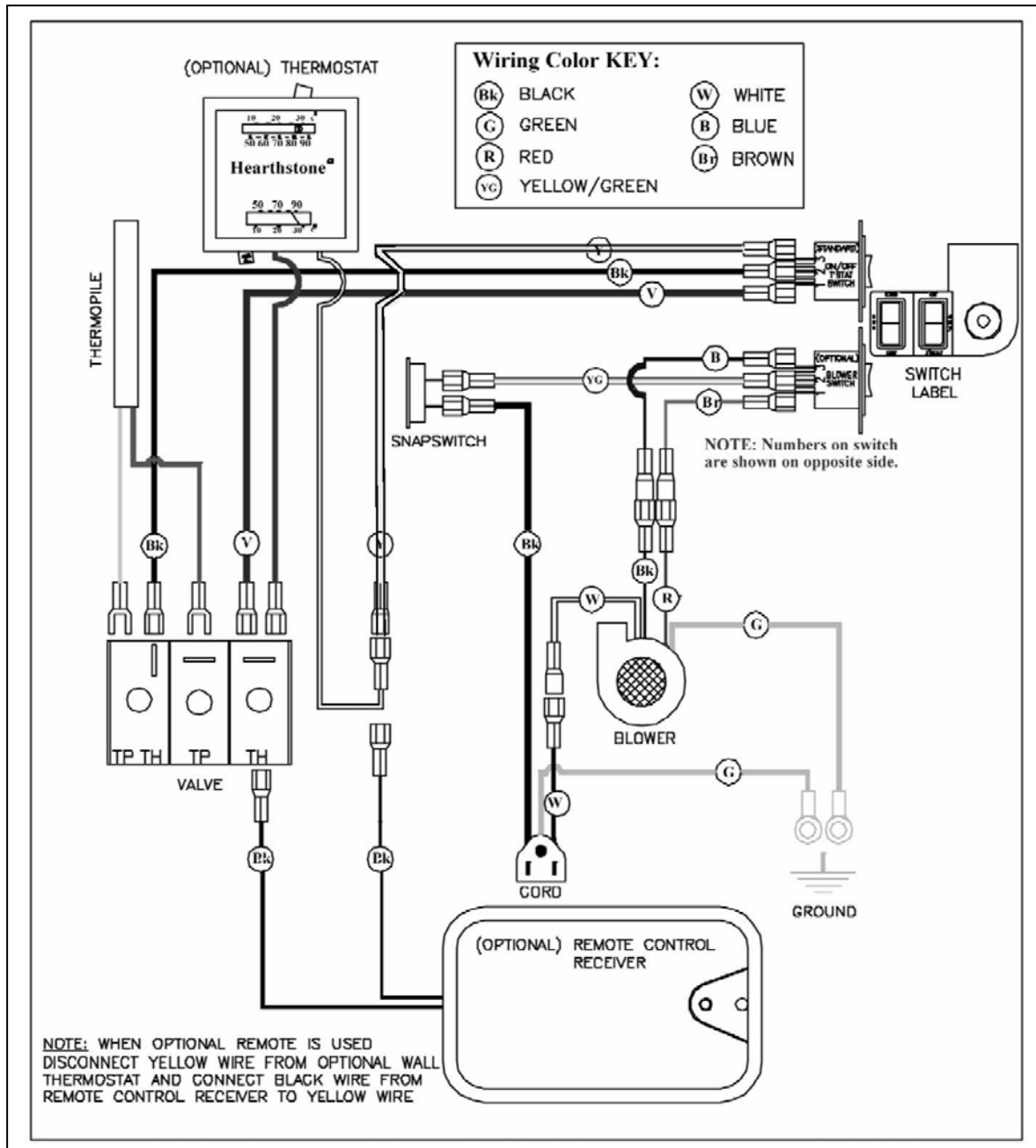
*****In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code. Note: Local Codes and Regulations may require different clearances.***

¹A vent shall not terminate directly above a sidewalk or driveway which is located between two single family dwellings and serves both dwellings

²Only permitted if veranda, porch, deck or balcony, is fully open on a minimum of two sides beneath the floor.*

ELECTRICAL SYSTEM INFORMATION

- CAUTION:** LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING. (ATTENTION: AU MOMENT DE L'ENTRETIEN DES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT LE DÉBRANCHEMENT. DES ERREURS DE CÂBLAGE PEUVENT ENTRAÎNER UN FONCTIONNEMENT INADEQUATE ET DANGEREUX.)



The proper location of wire connections is shown in the following figure.

Figure 15 – Champlain 8304 Wiring Diagram

Gas Supply & Connections

Connection Location

The gas supply connection is made to the Champlain's gas control valve under the bottom right center of the unit using a 3/8" male NPT fitting. The supply line should be 1/2" diameter, or appropriately sized to provide a sufficient gas supply to meet the maximum demand of the unit without undue loss of pressure. We recommend a flexible line to avoid undue mechanical load on the valve and to ease thread alignment, but refer to local codes.

The Champlain is factory equipped to use natural gas (NG) and requires conversion for use with propane (LP). A propane (LP) fuel conversion kit is included with your stove purchase.

Gas Supply

This appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig. The Champlain must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or greater than 1/2 psig. Over pressurizing can damage the control resulting in leakage or control malfunction.

NOTICE: A QUALIFIED TECHNICIAN MUST CONNECT THE HEATER TO THE GAS SUPPLY AND LEAK TEST THE UNIT BEFORE IT IS APPROVED FOR USE. CONSULT ALL CODES.

WARNING: THE UNIT MUST BE INSTALLED AND CONNECTED IN ACCORDANCE WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE MOST CURRENT EDITION OF THE NATIONAL FUEL GAS CODE ANSI Z223.1 (NFPA 54) OR CAN/CGA B149 INSTALLATION CODE. *INSTALLER L'APPAREIL SELON LES CODES OU RÈGLEMENTS LOCAUX, OU, EN L'ABSENCE DE TELS RÈGLEMENTS, SELON LES CODES D'INSTALLATION CAN/CGA-B149*

NFPA Code and Hearthstone require the use of a dedicated sediment trap just upstream of the unit. Damage to the valve, or other components due to the lack of a sediment trap are not covered by warranty (see figure 17).

High Altitude Installations

For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods.

The decreased atmospheric pressure at higher altitudes affects the heat value of fuel gases. Gas suppliers typically derate the gas intended for use at elevations above 2000 feet (610 meters). This is not necessary with the Champlain.

VALVE DESCRIPTION

- ① Gas cock knob
- ② Manual HI-LO adjustment or pressure regulator adjustment
- ③ Pilot adjustment
- ④ Thermocouple connection
- ⑤ Mounting for piezo & bracket

- ⑥ Inlet pressure test point
- ⑦ Outlet pressure test point
- ⑧ Main operator
- ⑨ Pilot outlet
- ⑩ Main gas outlet

- ⑪ Flange securing screw holes
- ⑫ Additional valve mounting hole
- ⑬ Alternative TC connection point
- ⑭ Thermoelectric unit

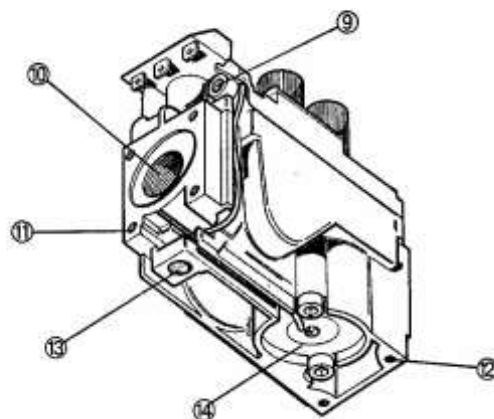
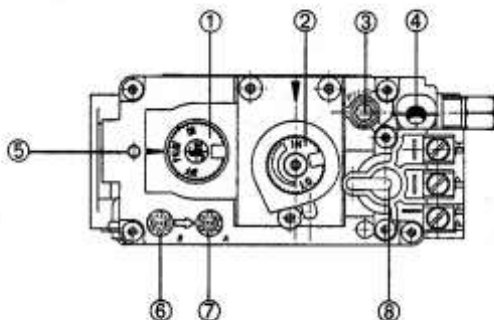


Figure 16 – SIT 820 Valve

WARNINGS

- Fire or Explosion Hazard. Can cause property damage, severe injury, or death. Do NOT bend tubing at gas valve connection point after compression fitting has been tightened. This can result in gas leakage at the connection.
- Use new properly prepared pipe free from metal or material chips. When tubing is used, assure that ends are square, de-burred and clean. All tubing bends must be smooth and free of distortion.
- Do NOT over tighten connections. Over tightening can damage the control body resulting in leakage or control malfunction.
- Do NOT remove screws from the gas valve. Do NOT adjust and/or alter any components marked with tamper indicating paint. Motor knob is not to be removed.
- Turn off gas supply at the appliance service valve before starting installation, and perform a Gas Leak Test after the installation is complete.
- Install the sediment trap (where required) in the gas supply line to prevent contamination of the gas valve (*see figure 17*).
- Use only your hand to push in or turn, the gas Control knobs. Never use tools. If a knob will not push in or turn by hand, do NOT try to repair it. Call a qualified service technician. Force or attempted repair will void warranty and can result in a fire or explosion.

GAS CONNECTIONS

Connection Main Gas (Tubing connections)

1. Do NOT use pipe joint compound or Teflon®/PTFE tape.
2. Slip nut and ferrule over tubing.
3. Slide nut and ferrule into place, and insert tubing into inlet/outlet connection until it bottoms. Turn until finger-tight.
4. Use a wrench to tighten nut about 1 turn beyond finger tight.

Connection Main Gas (Pipe Connections)

1. Do NOT use Teflon®/PTFE tape.
2. Pipe to be inserted into the valve must be the

proper thread length and to gauge. Thread that is cut too long can cause distortion or malfunction if inserted too deeply.

3. Apply a moderate amount of approved pipe sealant to the pipe only, leaving the two end threads bare.
4. Connect pipe to valve inlet and outlet.

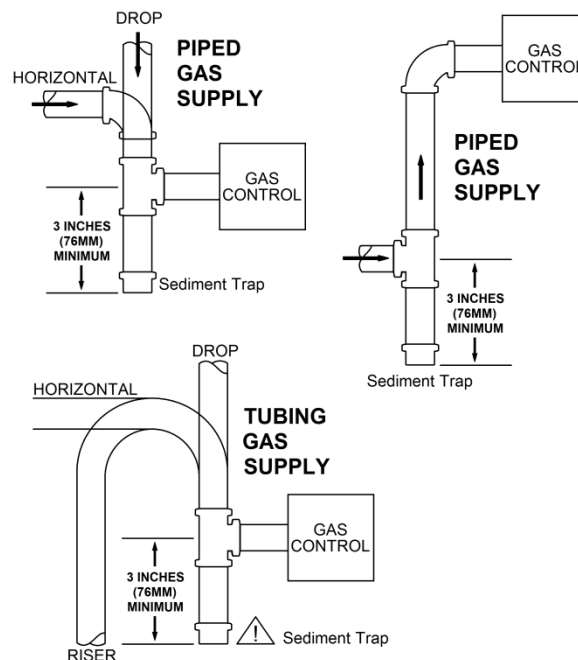


Figure 17 – Sample Gas Supply Sediment Traps

PERFORM INITIAL GAS LEAK TEST

1. Check carefully for gas leaks immediately after the appliance has been installed and the gas turned on. **Do this before attempting to operate the appliance or other gas burning device.**
1. Use an approved non-corrosive leak detection fluid, or other approved leak detection method, around the diaphragm flanges, pipe connections, seal cap, and all other joints. Bubbles indicate a leak.
2. If no leakage is detected, proceed with the instructions listed on page 21 to light the main burner and perform a secondary leak check of the appliance gas supply system.
5. If a leak is detected, tighten pipe connections (including adapters) according to "GAS CONNECTIONS" (page 18).

⚠ WARNING

Absolutely no leakage should occur, otherwise there is a danger of fire or explosion depending upon conditions. Never use if leakage is detected.

Log Set Placement

⚠ **CAUTION: FRAGILE! HANDLE LOG SET WITH CARE. ALWAYS WEAR GLOVES AND SAFETY GOGGLES WHILE HANDLING THE LOG SET.**

⚠ **WARNING: FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS APPLIANCE MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. Avertissement. RISQUE DE DOMMAGES OU DE BLESSURES SI LES PIÈCES NE SONT PAS INSTALLÉES CONFORMÉMENT À CES SCHÉMAS ET OU SI DES PIÈCES AUTRES QUE CELLES SPÉCIFIQUEMENT APPROUVÉES AVEC CET APPAREIL SONT UTILISÉES.**

Place only the ceramic log set supplied with the unit in the firebox. Do not place any other ceramic logs, wood logs, or other materials in the firebox. If the log set is damaged or broken contact your dealer for replacement. The ceramic logs will last a long time; however, they will break if subjected to rough or improper handling. Exact positioning of the log set is required in order to obtain a pleasing flame pattern and efficient combustion. Incorrect log placement may cause carbon build-up; excess thermal stress on the log set and stove parts, reduced efficiency, and high levels of carbon monoxide. Position the log set exactly as shown in order to obtain a pleasing flame pattern and efficient combustion. Incorrect log placement can cause carbon build-up; excess thermal stress on the log set and stove parts, reduced efficiency, and high levels of carbon monoxide. If the log set does not fit into the firebox exactly as outlined, contact your dealer for assistance.

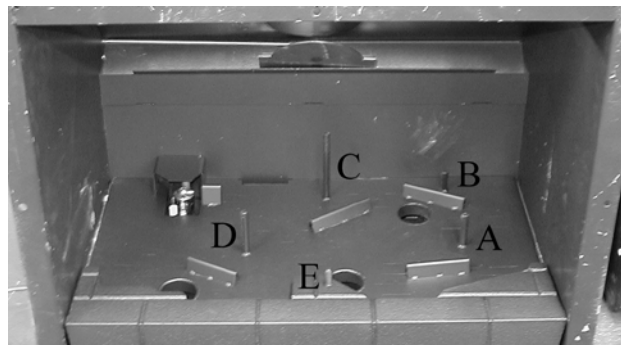
Installation of the Log Set

⚠ **CAUTION: DO NOT PLACE EMBERS NEAR THE PILOT.**

(Refer to the figures in this section)

1. If not already opened, follow the instructions for firebox access on page 8.
2. Remove the packaging material around the log set assembly. Be careful not to damage the log

set when unpacking. Observe the 5 mounting "posts", A, B, C, D, and E.



3. Gently slide the Y-shaped Log (1) onto pins A and C, as shown next.



4. Gently slide the longer, "half" log (2) onto pin D. Be sure to position the rear of the log in front of the pilot assembly and against the left side of the firebox as shown below.



5. Gently slide the shortest of the “half” logs (3) onto pin B as shown below.



6. Gently slide the medium length of the “half” logs (4) onto pin E as shown next.



7. Gently slide the split log (5) onto pins C and D as shown below.



8. Place the right end of the curved log (6) onto the protruding pin C on log 1, and rest its left end on log 2 as shown below. Push this log back until the curve is against the baffle.



9. Spread the Charcoal Embers evenly across the front portion of the Pan Burner, one layer high. You may or may not need to use all of the Charcoal Embers. Keep the rest for use in the future. Do not drop the embers into the burner holes. Locate and open the bag of Platinum Bright Embers. Pull apart small pieces of the wool and sprinkle over the Charcoal Embers randomly. This wool will glow brightly once the unit is running.



10. Replace the glass frame by sliding it down the face of the firebox and pushing the top back. Slide the two clips back down to hold the frame in place.

Removal of Log Set

CAUTION! LOG SET AND CHARCOAL EMBERS WILL RETAIN HEAT AND CAN BE VERY HOT, IF RECENTLY LIT! ALLOW AT LEAST 1 HOUR AFTER PILOT LIGHT IS TURNED OFF BEFORE HANDLING.

To remove the log set, follow the Installation of Log Set instructions in the reverse order.

CAUTION! FRAGILE! HANDLE LOG SET AND CHARCOAL EMBERS WITH CARE.

Completing the Installation

- Once the firebox is closed and all cast iron panels are re-installed, follow start up procedure outlined below.

LIGHTING THE UNIT THE FIRST TIME

SMOKE AND FUMES WARNING

When lit for the first time, the Champlain will emit some smoke and odors. This is normal “off-gassing” of the paints and oils used in the manufacturing, and assembly of the unit. Open windows to vent the room if necessary. The off gassing and fumes will subside after the first 10 to 20 minutes of operation.

Once the Champlain in place and connected as described previously, the unit is ready to be lit for the first time. Hearthstone tests each Champlain before shipment, so ignition should take place without failure.

PILOT LIGHT

The Champlain has a piezoelectric spark igniter (the red or black push button located next to the gas control valve behind the valve access door), which ignites the pilot light by means of a spark at the pilot light assembly. Do not attempt to light the unit with a match or by any means other than the piezoelectric spark.

PILOT ADJUSTMENT

The pilot light is preset by Hearthstone and should not need adjustment. The pilot light flame must be large enough to engulf the thermopile and thermocouple located next to the pilot, but not so large as to create excessive noise or consume excessive gas. However, it can be adjusted by means of the pilot light adjustment screw located on the gas control valve (see Figure 16). Open the ash lip door to access the pilot adjustment screw. Note that the pilot flame must engulf the thermopile so that the thermopile can generate sufficient milli-voltage (325 to 500-mv) to power the millivolt gas control valve

Before lighting, smell, or use a gas detector all around the appliance area to check for gas leaks. Be sure to test near the floor because some gases (LPG) are heavier than air and will settle on the floor. If you detect gas, check for leaks.

WARNING! THE CONTROL HAS AN INTERLOCK DEVICE. IF THE STOVE WAS RECENTLY BURNING, IT WILL NOT RELIGHT IMMEDIATELY. AFTER SHUTTING OFF ALL GAS FLOW, THE PILOT BURNER WILL NOT RELIGHT UNTIL THE THERMOCOUPLE HAS COOLED, RELEASING THE

ELECTROMAGNET (APPROX. 60 SEC.). THE GAS CONTROL KNOB IS DESIGNED TO OPERATE BY HAND. DO NOT USE ANY TOOLS DURING THIS OPERATION.

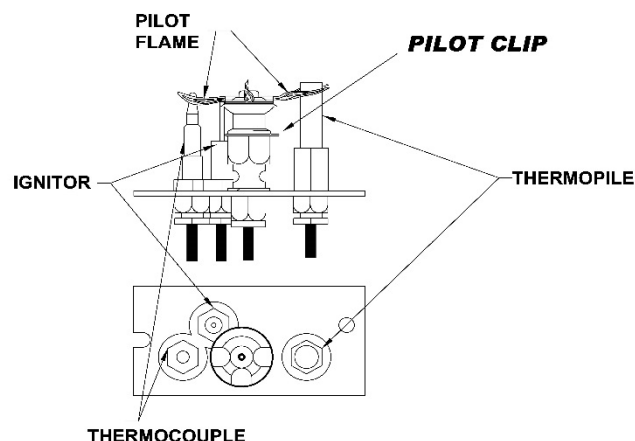


Figure 18: Pilot Assembly Detail

LIGHTING INSTRUCTIONS

- Set the on/off/T-stat switch or thermostat to the off position.
 - Unplug the blower accessory, if so equipped.
 - Push in and turn gas control knob clockwise to “OFF”. *(If not previously lit, the knob should be in this position.)*
 - Wait (5) five minutes to clear out any gas. If you then smell gas, STOP! *Smell all around the appliance area for gas. Be sure to smell next to the floor because some gases (LPG) are heavier than air and will settle on the floor. If you smell gas immediately, follow the **What To Do If You Smell Gas!** warning on the cover of this Manual.* If you do not smell gas, go to the next step.
 - Turn gas control knob counterclockwise to “PILOT”.
 - Push in control knob all the way and hold in. Immediately light the pilot with the gas lighter (push in and “click” the piezoelectric spark igniter button several times until lit). Continue to hold the control knob in for about 20 seconds after the pilot is lit. Release the knob and it will pop back out. Pilot should remain lit. If the pilot goes out, repeat the operation.
- WARNING!** If knob does not pop out when released, stop and immediately call a qualified service technician or gas supplier.

- 🔥 If the pilot will not stay lit after several tries, turn the gas control knob “OFF” and call a qualified service technician or gas supplier.

7. Turn gas control knob counterclockwise to “ON”.
8. Select “ON” or “T-STAT” position on the on/off/t-stat switch.
9. Shut the gas control valve access door.
10. Plug in the blower accessory, if so equipped.
11. Set thermostat to “ON” and set the desired temperature setting.

Normally, if the “T-STAT” position was selected, the main burner is cycled on and off by the Thermostat or the “on”, “off” switch located on the bottom of the Thermostat body.

TO TURN OFF THE APPLIANCE

Turn the gas control knob clockwise to “OFF” position, and shut off the gas supply to the valve if shutting the unit off for the non-heating season. This will improve the overall efficiency of the unit as the heat from the pilot is wasted in the summer. Follow the lighting instructions outlined on this page when putting the unit back into service.

VARIABLE OUTPUT CONTROL

The gas control valve is equipped with a variable output control. This control varies the *rate* of heat produced by the unit by varying the gas pressure to the main burner tube.

DAILY OPERATIONS

The Champlain gas-fired heater is easy to operate. The Champlain comes with a standard thermostat. Optional remote, REMOTE CONTROL KIT # 90-56914, or programmable thermostats are available for purchase from your local Hearthstone dealer. The desired room temperature is maintained with a properly adjusted and installed thermostat. By adjusting the variable output control located on the gas control valve, the *rate* of heat output is varied to meet the heating requirements of the season. Choosing a low flame setting will result in longer burn cycles at a reduced output, while choosing a high flame setting will result in a shorter, hotter burn cycle. Through trial and error, the homeowner can select the optimum flame size for their setting, and application. Also available is an optional variable speed blower.

7 Day Pilot Light Timeout

To meet many regional efficiency regulations, the Champlain 8304 is equipped with a gas valve which will extinguish the pilot light after 7 days of inactivity of the main burner. The pilot must be relit if the unit has been inactive for 7 days. See page 21 for lighting instructions. This feature can be overridden by installing a programable thermostat set to turn the stove on for a period of time, at least once a week outside of peak heating season.

Air Shutter

The air shutter is used to regulate the air-to-gas combustion mixture, which in turn influences the size and color of the flames. The air shutter is factory positioned in the general location needed for testing the unit with natural gas (NG) and minimum venting. However, if the unit is not burning as well as it should in your installation, then the air shutter may need adjusting.

To determine if the air shutter needs adjustment, it is necessary to view the flame pattern with the burner output set at its highest setting. Allow the unit to operate for at least 10 minutes to allow the entire unit to reach operating temperature, and for the flame pattern to stabilize. Generally, the more air (open shutter) in the mixture, the bluer the flame. Less air (closed shutter) results in a more yellow flame, but too little air will result in incomplete combustion, low efficiency and a dirty burn. There are two simple guidelines to aid in determining the correct flame pattern:

1. If the flame just above the surface of the burner or at the base of the logs is completely blue, the air shutter may be open too far.
2. If the flame is dirty, sooty or licks the top of the baffle, the air shutter may be closed too far.

Some conditions cannot be corrected through air shutter adjustment; an adjustment must be made to the gas supply pressure or by changing the restriction plate setting. Qualified service personnel must perform supply line/manifold gas line pressure adjustments and restrictor plate adjustments. Do not attempt to complete any part of the installation or adjustment of this unit unless technically qualified.

Air Shutter Adjustments

🔥 **WARNING: THE ADJUSTING BOLT IS HOT!**

🔥 **WARNING: THE AIR SHUTTER IS FACTORY SET AND ONLY A QUALIFIED GAS TECHNICIAN SHOULD MAKE ADJUSTMENTS.**

The air shutter is adjustable while the stove is burning. Loosen the lock nut on the adjusting bolt located in the lower rear center of the stove. Move the bolt in or out to adjust the flame pattern (see *figures 19-21*). Turn the bolt in to open the air shutter, and turn it out to close the shutter. When the flame pattern is correct, hold the adjusting bolt head still with a wrench and tighten the locking nut to the body of the stove.

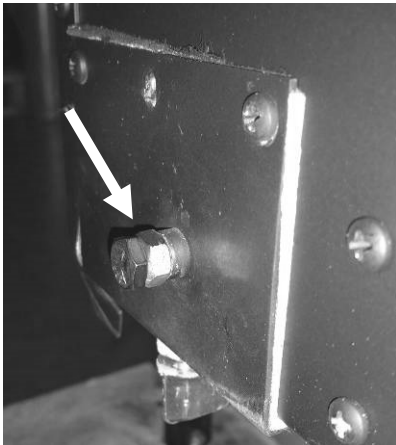


Figure 19 – Air Shutter Open



Figure 20 – Air Shutter Closed

Note: Very little movement is needed to substantially change the burn and flame patterns. Some conditions cannot be corrected through air shutter adjustment; an adjustment must be made to the gas supply pressure. Supply line/manifold gas line pressure adjustments must be performed by qualified service personnel. Do not attempt to complete any part of the

installation or adjustment of this unit unless technically qualified to do so.

Burner Flame Appearance

Once the unit is lit, observe the flame pattern and adjust as necessary. Also, a periodic visual check of the burner flame should be performed. The burner flames can be adjusted by means of the air shutter. To determine if the burner flame needs adjustment, it is necessary to view the flame pattern with the valve output at its highest setting. Allow the unit to operate for 10 minutes enabling the entire unit to reach temperature and for the flame pattern to stabilize. The flame pattern should be similar to the one shown in *figure 21*. There are several guidelines to aid in determining if the flame pattern is correct:

1. The flame should not be dirty, smoky, sooty, or lick the top of the stove.
2. The flame should not rise off the pan burner; this is called "lifting".
3. Flames should not impinge heavily on the log set. They should "fit" through the pre-formed spaces designed in the log set.



Figure 21 – Typical Burner Flame Appearance

Restrictor Plate

The restrictor plate is used to control excess draft if necessary. Controlling the draft also changes the aesthetics of the flame. The restrictor plate has a large range of unlimited settings (see *figures 22 & 23*). The adjustment point is on the left side of the firebox (from front).

Restrictor Plate Position

The restrictor plate may be factory set in the fully closed position for shipping. If so, set to the fully opened position. This ensures proper flames for a wide variety of vent configurations and efficiency. The restrictor plate consists of a rotating flap in front of the firebox exhaust port behind baffle plate. Depending on your vent configuration, you may need to adjust the restrictor plate position to reduce draft.

Restrictor Plate Adjustment

Loosen the screw and position the restrictor plate in the desired location. Tighten the screw to lock in place.

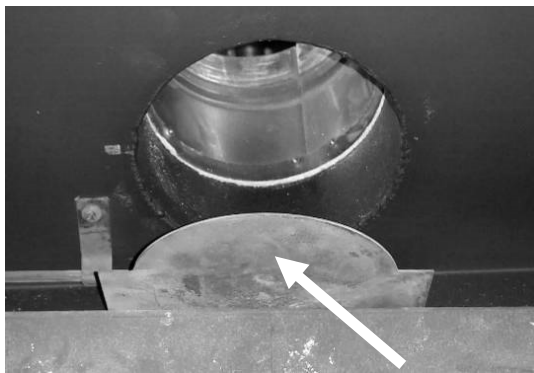


Figure 22 - Restrictor Fully Open Detail (baffle removed for clarity)

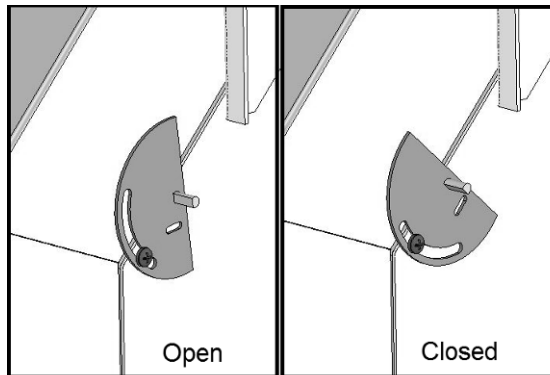


Figure 23 - Restrictor Adjuster Arm Detail

Routine Maintenance and Care

Your Champlain requires minimal routine maintenance and care. Ensure the unit is cool and off when cleaning, or servicing.

⚠ WARNING: DO NOT SUBSTITUTE MATERIALS.

For replacement parts, or for information about parts or service, contact your local Hearthstone dealer.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance. *Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.*

Cleaning

⚠ WARNING: DO NOT CLEAN THE UNIT WHEN HOT.

The unit should receive regular cleaning on, under, and around the stove to prevent the buildup of dust and lint. The exterior surfaces of the unit can be cleaned using soap, water, and a soft cloth. Do not use abrasive or chemical cleaners and take care not to scratch the glass or enamel finish (if so equipped) when cleaning the unit. The use of chemical wax based cleaners or polishes are not recommended due to the potential for discoloration of the castings, or enamel when the residue of the cleaners or polishes is exposed to heat. Excessive buildup of dust, spider webs, or room air contamination may cause odors when the stove is hot.

Monthly (or as needed):

Glass Cleaning

As fuel gas may contain some impurities; it will be necessary to clean the inside of the glass occasionally. Do not use abrasive cleaners. Scratching the glass will weaken the integrity of the glass. **Do not clean the glass when hot!** Allow the glass to cool and apply a mild window cleaning fluid. Special gas appliance window cleaner is available from your local Hearthstone dealer.

⚠ WARNING: DO NOT OPERATE THIS APPLIANCE WITH THE GLASS PANEL REMOVED, CRACKED, OR BROKEN. DO NOT SUBJECT THE GLASS OR ITS FRAME TO ABUSE, SUCH AS STRIKING OR BENDING. REPLACEMENT OF THE GLASS PANEL SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. *NE PAS UTILISER L'APPAREIL SI LE PANNEAU FRONTAL EN VERRE N'EST PAS EN PLACE, EST CRAQUÉ OU BRISÉ. CONFIEZ LE REMPLACEMENT DU PANNEAU À UN TECHNICIEN AGRÉÉ.*


NOTE: If the venting system is disassembled for any reason, re-install per the instructions provided in the venting section of this manual.

Annually:

Clean Firebox, Pilot, & Burner Assembly

The firebox requires periodic cleaning to prevent the accumulation of dust, lint, and other debris. To clean the firebox, set the switch to the "OFF" position, and turn off the gas supply to the valve. When the unit is cool, remove the front panel and glass (see page 8 for Firebox Access instructions) and carefully remove the decorative ceramic log set, taking care not to damage the logs or chip the enamel cast iron. Remove all ember material. Clean the firebox baffle, burner, and carefully vacuum the entire surface of the log set with a soft brush attachment. Thoroughly vacuum the ports (holes) along the top of the burner, and the pilot assembly.

With the decorative ceramic logs out of the firebox, reseal the firebox and briefly light the unit according to the lighting instructions described on page 21. Check to ensure a proper flame is burning from each burner port. The pilot flame should be burning properly as well.

 **NOTE: Do not operate the unit for more than 1-2 minutes without the log set in place.**

Check and clean any burner ports that are not burning, or not burning properly. Clean burner ports using a soft brush or vacuum cleaner. If the pilot flame height needs adjustment, it should be adjusted by qualified service personnel as described on page 21.

Complete the cleaning procedure by carefully placing the log set within the firebox as described on pages 19-20. Reattach the glass and front panel to seal the firebox. Turn on the gas, light the unit and check for proper operation. Flame patterns should look similar to the flames in Figure 21. Regularly check to ensure the area around the Champlain is kept free from combustible materials, gasoline, and other flammable vapors and liquids. Check that the flow of combustion and ventilation air is not obstructed.

Professional Inspection

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. *L'installation et la réparation devrait être*

confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

As Needed:

Glass and Gasket Replacement

In the event that you need to repair or replace a cracked or broken glass, order kit 93-58015 (complete glass assembly with frame) and use the following instructions to replace the components. Your Champlain uses a folded flat fiberglass gasket to make a tight seal between the glass frame and the firebox. In time, the gasket can become brittle and compressed and should be replaced using the following instructions. New gasket material is also available from your Authorized Hearthstone Dealer. Protect your hands with work gloves, and wash up later.

1. Allow the Champlain to cool completely. If the glass is severely broken, first pull the broken fragments of glass away from the firebox using heavy-duty gloves.
2. Follow the instructions for removing the front glass described in Firebox Access on page 9. Remove the glass from the glass frame by drilling out the four 1/8" rivets that lock the glass in place. Pull the glass away from the frame and set it aside.


If replacing gasket only:

1. Remove the existing gasket from the glass by grasping one end and pulling firmly. Clean off as much of the hanging fiber "hairs" as possible
2. Locate the 3/4" x 1/16" flat tape gasket. Peel the adhesive protecting paper away from one end. Starting at the center of the long end of the glass apply the gasket centered on the edge of the glass. Continue to wrap the gasket around the edge until you meet at the starting point. Do not overlap the gasket ends or leave ends with ragged edges.

3. Firmly and evenly, fold the gasket around the edges of the glass so it lies flat on the surface.
4. Place the gasket back in the glass frame. With four new 1/8" rivets replace the 2 glass clips. The glass and frame are now ready to be placed back on the unit.

If replacing entire glass with kit:

1. Apply gasket to new glass as describe in steps 2-3 above.
2. Carefully install the new glass with frame onto the firebox and fasten in place using the swing clips .
3. Replace the cast iron by reversing the steps used for removal.

 **WARNING! DO NOT USE SUBSTITUTE MATERIALS. USE ONLY PARTS SUPPLIED BY HEARTHSTONE THROUGH AN AUTHORIZED HEARTHSTONE DEALER.**

 **CAUTION! DO NOT CLEAN THE GLASS WHILE THE UNIT IS HOT.**

Venting Components:

Venting should not need to be disassembled for normal cleaning. However, if venting is required to be removed for any reason, this should be done by a qualified service person only. It is imperative that the venting system be reinstalled according to the particular manufacturer's specifications and this is best performed by a professional.

Venting System Inspection

Periodic inspection of the venting system should be performed by a qualified service person or agency at least annually.

PARTS LIST

PART #	DESCRIPTION	PART #	DESCRIPTION
2310-015	BRICK PANEL BACK	5701-925H	STARTER COLLAR
2310-020	BRICK PANEL FRONT	7000-200	3-WAY SWITCH ON/OFF/TSTAT
2310-240	EXHAUST BAFFLE	7200-331	ORIFICE: BURNER, NG, #31 SPUD
2310-850	HEAT EXCHANGER BASE	7200-350	ORIFICE: BURNER, LP, #50 SPUD
2310-860	HEAT EXCHANGER	7210-103	IGNITOR
23X0-040	TOP CASTING	7211-370	PILOT ASSEMBLY
23X0-440	FRONT CASTING	7211-325	VALVE (NG)
3030-036	GLASS	7211-018	GAS LINE 3/8 DIAMETER
3160-071	GLASS TAPE 1"	7211-221	BURNER ASSEMBLY
3160-150	FIREBOX/AIR HEAT EXCHANGER GASKET	7211-517	CERAMIC NUGGETS
3160-152	PILOT GASKET		
3160-157	GASKET 6" INLET	Log Set: 93-66020	
3160-300	PRIMARY AIR CONTROL GASKET	7211-601	BOTTOM RIGHT LOG
3170-150	PLATINUM BRIGHT EMBERS	7211-602	REAR RIGHT LOG
5301-030	CONTROL: PRIMARY AIR ASSEMBLY	7211-603	FRONT CENTER LOG
5301-060	RESTRICTOR PLATE	7211-604	BOTTOM LEFT LOG
5301-070	SHUTTLE POSITION INDICATOR	7211-605	REAR TOP LOG
5301-080	OUTLET RESTRICTOR CLIP	7211-606	FRONT TOP LOG
5302-010	FIREBOX: CHA 3		
5302-040	HEATSHIELD: REAR, LEFT, CHA 3		
5302-050	HEATSHIELD: REAR, RIGHT, CHA 3		

Accessories available:

BLOWER KIT #93-57020

LP CONVERSION KIT #93-56041

NG CONVERSION KIT #93-56040

REMOTE CONTROL KIT # 90-56914

 **WARNING! DO NOT SUBSTITUTE MATERIALS.**

For replacement parts, or for information about parts or service, contact your authorized Hearthstone retailer. For the name of the authorized retailer nearest to you, visit our website at www.hearthstonestoves.com.

TROUBLESHOOTING

Symptom	Possible Cause	Corrective Action
1. Pilot will not light.	A. Insufficient gas pressure, air in the pilot line, or dirty or kinked gas line.	A. Using the piezo sparker, try to light the pilot. If it will not light, check the inlet gas pressure.
	B. Pilot orifice plugged.	B. Clean or replace the pilot assembly.
	C. Defective or misaligned electrode at pilot.	C. If a match lights a pilot, check the electrode gap and location. Should be a 1/8" gap in the flame area.
	D. Defective igniter.	D. Check for a good connection between igniter and electrode. Check wire insulation. If properly connected and no spark, replace igniter.
	E. After sitting for "off" season (summer), pilot assembly may be dirty.	E. Clean or replace the pilot assembly.
2. Pilot will not stay lit after carefully following lighting instructions.	A. Low or too high gas pressure	A. Check for proper inlet pressure for the gas being used.
	B. Faulty connections.	B. Measure voltage between valve body and solder connection on the rear of the valve (where the blue wire connects). It should be no less than 7 mV.
	C. Defective thermocouple.	C1. Ensure that the thermocouple connection at the gas valve is tight. C2. Check thermocouple output using milli-volt meter. Disconnect from valve and read voltage across wire ends. If the reading is less than 15 mV, replace the pilot assembly. C3. If burning NG, check pilot flame to see that it is impinging on the top of the thermocouple. Clean or replace pilot for maximum flame impingement.
	D. Pilot dirty or plugged.	D. Clean or replace the pilot assembly.

Symptom	Possible Cause	Corrective Action
3. Pilot burning, no gas to main burner, valve knob in the "ON" position, thermostat and/or on/off/t'stat switch in the "ON" position.	A. Thermostat switch or wires defective.	A. Check thermostat/wiring for proper connections. Place jumper wire across terminals at thermostat. If burner comes on, replace defective thermostat. If not OK, place jumper across thermostat wires at gas valve. If burner comes on, tighten connections, or replace faulty wires.
	B. Thermopile may not be generating sufficient voltage.	B. Check thermopile output, using a milli-volt meter. If the optional on/off kit has not been installed, take the readings across generator terminals of the gas valve. TPTH and TP). With the on/off kit, take the readings across TH and Terminal block (which corresponds to #3 on the switch). Milli-volt reading should be greater than 325 mV. If not, replace the pilot assembly. If the meter reading is OK, but the burner does not come on, replace the gas valve.
	C. Plugged burner orifice.	C. Remove and check burner orifice, clean or replace. Note: do not use any metal cleaning device, as this may damage the orifice.
4. Pilot and burner come on, but go out after some warm-up.	A. Inconsistent, of insufficient flame on thermopile.	A. Adjust pilot flame size and assure that the flame is aimed directly at the thermopile.
	B. Insufficient gas pressure.	B. Check line pressure to ensure that the correct inlet pressure is present for the type of gas being used. If propane pressure is inconsistent, check for water condensation at the regulator.
5. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing, (high), causing the pilot safety to drop out.	A. Clean and/or adjust the pilot flame for maximum impingement on the thermopile and thermocouple.
6. Glass fogs	A. A normal result of gas combustion.	A. After the heater has warmed up, the glass should clear.
7. Blue Flames	A. A normal result during the first 20 minutes.	A. Flames should begin to turn more yellowish after 20 minutes of burning.
		B. If the blue color stays; adjust the air shutter for a proper burn.
Symptom	Possible Cause	Corrective Action

<p>8. Floating flames, lazy ill-defined, quiet flames, which roll around, sometimes completely off of the port, sometimes with overly, yellow tips. Possible sooting. Usually accompanied by the odor of aldehydes.</p>	<p>A. Potentially dangerous incomplete combustion due to incorrect air to fuel ratio (lack of combustion air or excessive fuel delivery I.e. excessive gas pressure, overrating of appliance). B. Incorrect air intake/exhaust flow system. Causes may be: B1. Blocked burner. B2. Blocked primary air B3. Blocked secondary air inlets</p>	<p>A. Check the appliance input rate and reduce if necessary. The air intake/exhaust flow system may be too restrictive or blocked (the rate at which the exhaust leaves [draft] determines the rate at which the combustion air is delivered). Poor draft results in insufficient air delivery or a restricted exhaust. Correct air intake/exhaust flow system. B1. Clear ports. B2. Clear obstructions. B3. Clear obstructions. C. If gas pressures are correct and the flames stay the same, adjust the air shutter for a proper burn.</p>
<p>9. Burner flashback. Air-gas mixture ignites inside the burner near the orifice, usually creating a roaring noise like a blowtorch. The problem is an imbalance of gas flow velocity and burning speed pattern.</p>	<p>A. Excessive. B. Burner input underrated. C. Valve leak if flashback occurs with burner valve in off position. D. Improper gas pipe size.</p>	<p>A. Adjust the air shutter for a proper burn. B. Check input rate. Check input pressure using a manometer. Confirm correct gas pressure at house meter or tank (call gas company). Confirm burner orifice size. C. Replace valve. If above corrections do not eliminate flashback, replace burner. D. Correct plumbing.</p>
<p>10. Delayed ignition (makes a sudden "whoosh" noise as the burner lights). This is a buildup of gas prior to ignition. This is more prevalent with propane (LP) fuel.</p>	<p>A. Incorrect air-to-fuel ratio. A1. Primary air incorrect. A2. Burner ports plugged. B. Improper log placement.</p>	<p>A1. Adjust the air shutter for a proper burn. A2. Open ports to allow for proper travel of flames. B. Reposition logs to eliminate interference with flame travel.</p>

RATING LABEL

MODEL / MODELE #: 8304
 MODEL NAME: CHAMPLAIN
 SERIAL #:
 NUMERO DE SERIE:
 LISTED: VENTED GAS FIREPLACE HEATER
 CERTIFIED TO: ANSI Z21.88-2017/CSA 2.33-2017, CSA 2.17-2017

CERTIFIED FOR CANADA
 CERTIFIED FOR MOBILE
 HOME INSTALLATION



FUEL TYPE:	NG <input type="checkbox"/>	LP <input type="checkbox"/>
INPUT RATING (Btu/hr) 0-2000 ft	35,000	35,000
INPUT RATING (Btu/hr) 2000-4500 ft	35,000	35,000
ORIFICE SIZE (DMS) 0-2000 ft	31	50
ORIFICE SIZE (DMS) 2000-4500 ft	31	50
MANIFOLD PRESSURE - LO SETTING (in.w.c./kPa)	1.3/0.32	3.2/0.80
MANIFOLD PRESSURE - HI SETTING (in.w.c./kPa)	3.5/0.87	9.7/2.42
INLET PRESSURE - MINIMUM (in.w.c./kPa)	5.0/1.24	11.0/2.74
MINIMUM INPUT RATING (Btu/hr)	21,000	21,000
ELECTRICAL RATING: 120 VOLTS 60Hz, 15 A		

CAUTION:
 DO NOT OPERATE WITH
 GLASS REMOVED,
 CRACKED OR BROKEN.

FOR USE WITH GLASS DOORS CERTIFIED
 WITH THE APPLIANCE ONLY.

Replacement on the panel should be done by a licensed or qualified service person.

This appliance must be installed in accordance with local codes, if any; if not, follow the *National Fuel Gas Code, ANSI Z223.1/ NFPA 54, or Natural Gas and Propane Installation Codes, CSA B149.1.*

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

For mobile home installation:

This appliance must be installed in accordance with the *Standard for Mobile Housing, CAN/CSA Z240 MH*, in Canada; or with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, in the United States or when such standard is not applicable, *Manufactured Home Installation Standard, ANSI/NCSBCS A225.1/NFPA 501A*.

During transportation of the mobile home:

Sections of the venting system have not been installed. **WARNING** - Do not operate the appliance until all sections have been assembled and installed in accordance with the manufacturer's instructions.

MINIMUM CLEARANCES TO COMBUSTIBLES	OPTIONAL ACCESSORIES	
UNIT TO REAR WALL: 3" (77mm)	93-57020	BLOWER KIT: CHA 2, CHA 3, CHA 4
UNIT TO SIDE WALLS, HORIZONTAL VENT: 2" (51mm)	93-56040	FUEL CONVERSION KIT (NG): CHA 4 (8304)
UNIT TO SIDE WALLS, SNORKEL TERMINATION: 4" (102mm)	93-56041	FUEL CONVERSION KIT (LP): CHA 4 (8304)
MAXIMUM MANTEL DEPTH: 17" (432mm)		
HORIZONTAL VENT TO MANTLE: 2" (51mm)		
SNORKEL TERMINATION, TOP OF UNIT TO MANTLE: 16" (407mm) Minimum		

This appliance is only for use with the type of gas indicated on this rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. See owner's manual for details. This appliance is not convertible for use with other gases, unless a certified kit is used. If the vent air intake system is disassembled for any reason, reinstall per the instructions provided with the initial instructions. This vented gas fireplace heater is not for use with air filters. This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.

VENTED GAS FIREPLACE HEATER - NOT FOR USE WITH SOLID FUEL

MANUFACTURED BY: HearthStone QHP, Inc., MORRISVILLE, VERMONT 05661



2021 2022 2023 2024 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC



DO NOT REMOVE OR COVER THIS LABEL

Made in USA

3300-760

Limited Warranty

These warranties give you specific legal rights. You may also have other rights which vary from State to State.

Hearthstone Quality Home Heating Products, Inc. (Hearthstone) warrants to the original retail purchaser only (the "Original Purchaser") the new appliance manufactured by Hearthstone, purchased by the Original Purchaser and installed by an authorized Hearthstone dealer or their designated representative against any of the occurrences listed in this document that result from defects in material or workmanship. This warranty is not transferrable. All obligations of Hearthstone under this document commence on the date of the Original Invoice (the "Purchase Date"). The term "Limited Lifetime" is defined as 10 years from the beginning of warranty coverage.

Hearthstone appliances are designed to be operated only with the fuels listed in your owner's manual.

Warranty Period	Wood	Gas	Pellet	Covered Components
Limited Lifetime	X	X	X	Stone
	X	X	X	Cast iron not listed elsewhere
	X			Clean burning air supply system*
5 Year	X	X	X	Door handles and latches
	X	X	X	Steel Components and Firebox
		X		Burner and logs
3 Year			X	Burn Pot and Baffles
2 Year	X	X	X	Appliance Electrical and Gas Components
	X	X		Refractory, Vermiculite Panels, Baffles
1 Year	X	X	X	Enamel finish against peeling or fading
	X	X	X	Accessories
	X	X	X	Glass
	X			Ash Grate
	X	X	X	All components not listed elsewhere

Any parts repaired or replaced during the limited warranty period will be warranted under the terms of the limited warranty for a period not to exceed the remaining term of the original limited warranty or one year, whichever is longer.

Parts: Hearthstone will replace through an authorized dealer, defective parts covered by the foregoing warranty at no charge.

Labor: Within the first (1st) year after the Purchase Date, Hearthstone will pay for warranty labor performed by an authorized Dealer at Hearthstone's published labor rates in effect at the time the labor is performed only if the appliance is installed by an authorized dealer or their designated representative. Otherwise or thereafter, the Original Purchaser is responsible for the cost of labor.

Shipping cost for parts: Within the first ninety (90) days after the Purchase Date, Hearthstone will pay for the shipping of appliance parts covered by any of the foregoing warranties to and from Hearthstone or an authorized Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for all shipping costs related to shipping appliance parts to and from Hearthstone or an authorized Dealer, as the case may be.

Shipping cost for the appliance: Within the first (1st) year after the Purchase Date, if the Original Purchaser is instructed to return the appliance to Hearthstone or an authorized Dealer for repair, Hearthstone will pay fifty percent (50%) and the Original Purchaser will pay fifty percent (50%) of the shipping costs related to shipping the appliance to and from Hearthstone or an authorized Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for one hundred percent (100%) of all of the shipping costs related to shipping the appliance to and from Hearthstone or an authorized Dealer, as the case may be. Notwithstanding any other

provision of this document, in no event will Hearthstone pay for any Dealer fees or other fees for pick up or delivery of the appliance returned for repair; the Original Purchaser shall be responsible for any such fees.

EXCLUSIONS & CONDITIONS

The warranties contained in this document do not cover, nor is Hearthstone responsible for:

1. Damages resulting from:
 - a. Failure to install, operate, or maintain the appliance in accordance with the owner's manual, operating instructions, installation instructions, or safety rating label provided with the appliance.
 - b. Over-firing the appliance. Over-firing can be identified by, but not limited to, warped cast iron or steel, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
 - c. Failure to install the appliance in accordance with all national or local building codes.
 - d. Shipping or improper handling.
 - e. Improper operation, abuse, misuse, continued operation with damaged, corroded, or failed components, accident, or improper/incorrect service or repairs.
 - f. Environmental conditions, inadequate ventilation, negative pressure, or improper drafting caused by tightly sealed constructions, insufficient make-up air supply, or air handling devices such as exhaust fans, forced air furnaces, or other such causes.
 - g. Damage caused by direct exposure to water.
 - h. Use of fuels other than those specified in the owner's manual.
 - i. Installation or use of components not supplied with the appliance, or any other components not expressly authorized and approved by Hearthstone.
 - j. Modifications of the appliance not expressly authorized and approved by Hearthstone in writing.
 - k. Interruptions or fluctuations of electrical power supplied to the appliance.
2. All stones are warranted against cracking or breakage due to thermal stress, excluding surface and hairline cracks and scratches that do not affect the operation, or safety of the appliance.
3. Repair or replacement of wear parts. Such parts that are subject to normal wear and tear during the warranty period such as paint, gaskets, baffles, refractory materials, ash grates, and glass.
4. Damage resulting from installation, modification, alteration, repair or service of the appliance by any party other than an authorized Hearthstone dealer (a "Dealer") or their designated representative, or Hearthstone.
5. Damage due to water or condensation due to installation of the appliance in a high moisture area.
6. Damage due to installation of the appliance in an atmosphere contaminated by damaging chemicals, including but not limited to chlorine, fluorine or salts.
7. Scratches on glass, enameled surfaces or stones due to mechanical abrasion.
8. Noise caused by expansion or contraction caused by the heating and cooling of the appliance.
9. Odors caused by the heating of the appliance, or surrounding materials
10. Consequential damage caused by leaking of condensate during startup
11. A defect in any part of the appliance if the Original Purchaser fails to comply with Hearthstone's or a Dealer's request to ship the part or the appliance to Hearthstone or a Dealer, as the case may be.
12. Replacement stones and enameled parts are taken from current stock, and may not match originals in color, grain, or pattern. Hearthstone will supply replacement parts for discontinued parts in finishes or colors as available, or at their discretion.
13. Hearthstone's obligation under this warranty does not extend to the appliance's ability to heat the desired space. Information is provided to assist the customer and the dealer in selecting the appropriate appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

THE WARRANTIES CONTAINED IN THIS DOCUMENT ARE EXCLUSIVE AND ARE GIVEN BY HEARTHSTONE AND ACCEPTED BY THE ORIGINAL PURCHASER IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND ANY OBLIGATIONS, LIABILITIES, RIGHTS, CLAIMS, OR REMEDIES IN CONTRACT OR TORT, WHETHER OR NOT ARISING FROM HEARTHSTONE'S NEGLIGENCE, ACTUAL OR IMPUTED. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE GIVEN ONLY TO THE EXTENT REQUIRED BY FEDERAL OR STATE LAW. EXCEPT AS OTHERWISE REQUIRED BY STATE LAW, UPON THE EXPIRATION OF THE EXPRESS LIMITED WARRANTIES CONTAINED HEREIN, NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE SUBJECT APPLIANCE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

THE WARRANTIES CONTAINED IN THIS DOCUMENT EXTEND ONLY TO THE ORIGINAL PURCHASER OF THE APPLIANCE WARRANTED HEREUNDER. THEY ARE NOT TRANSFERRABLE AND DO NOT EXTEND TO ANY SUBSEQUENT OWNERS.

UNDER NO CIRCUMSTANCES SHALL HEARTHSTONE BE LIABLE TO THE ORIGINAL PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGE TO PROPERTY OR PERSONAL INJURIES, WHETHER ARISING OUT OF LOSS OF USE, BREACH OF WARRANTY, TORT, OR OTHERWISE, EVEN IF HEARTHSTONE HAS BEEN APPRAISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

QUALIFYING FOR WARRANTY COVERAGE

To obtain performance of any obligation under this document, the Original Purchaser must, within the applicable warranty time period, contact their original Hearthstone dealer, or the current responsible local Hearthstone dealer, for instructions regarding the return of defective parts for repair, the return of the appliance for repair, or to schedule a Dealer service call. The Original Purchaser should refer to the Dealer Network search engine contained on Hearthstone's Web site (www.hearthstonestoves.com) if the original dealer is not available, to find a Hearthstone dealer nearest to the Original Purchaser's location.

REMEDY

The remedy for any breach of the foregoing warranties will consist of repair or replacement, at Hearthstone's option, of any covered defect in the appliance. When the Original Purchaser contacts a Hearthstone Dealer, the Dealer on behalf of Hearthstone, as the case may be, will instruct the Original Purchaser to either return the defective part, or the entire appliance (if requested), to the Dealer or Hearthstone or allow a Dealer to make a service call at the place where the appliance is located. Hearthstone may require that a digital picture be provided to support the claim. Notwithstanding any other provision of this document, the Original Purchaser shall pay for any fees and service charges related to a Dealer's service call or the shipping charges associated with the return.

WARRANTY REGISTRATION

The Original Purchaser can complete their warranty registration on our website at www.hearthstonestoves.com.
Hearthstone's physical address is:

Hearthstone Quality Home Heating Products, Inc.
Warranty Department
317 Stafford Avenue
Morrisville, VT 05661

NOTE: ON-LINE REGISTRATION IS *NOT REQUIRED* AS A CONDITION OF WARRANTY COVERAGE OR HEARTHSTONE'S PERFORMANCE.