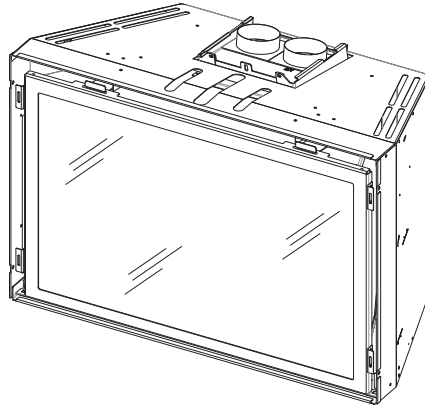# ROOSEVELT 29 BW

Model #RVT-29-BW
Direct Vent Gas Fireplace Insert

English and French installation manuals are available through your local dealer. Visit our website *www.kozyheat.com*.

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez *www.kozyheat.com*.

PFS
C ✓ US

We suggest 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.

⚠ **WARNING:**
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

— Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS

  • Do not try to light any appliance.
  • Do not touch any electrical switch; do not use any phone in your building.
  • Leave the building immediately.
  • Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  • If you cannot reach your gas supplier, call the fire department.

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, 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 gases, unless a certified kit is used.

⚠ **DANGER**

HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED

NEVER ALLOW CHILDREN TO TOUCH GLASS

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

CONGRATULATIONS!

Hussong Manufacturing welcomes you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials, assembled with care by trained craftsmen who take pride in their work. To ensure you receive a quality product, the burner and valve assembly are 100 percent test-fired, and the complete fireplace is thoroughly inspected before packaging. Our commitment to quality and customer satisfaction has remained the same for over 40 years. We offer a complete line of gas and wood fireplaces, along with stylish accessories to complement any decor. Adding a fireplace is one of the best ways to increase the value of your home, and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.

Jim Hussong
President

Dudley Hussong
Board Chairman

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

Homeowner Reference Information

We recommend you record the following information:

Model Name: _____

Date purchased/installed: _____

Serial Number: _____

Location of fireplace: _____

Dealership Purchased from: _____

Dealer phone: _____

Notes: _____

_____

_____

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Appliance Certification

Laboratory: PFS in Cottage Grove, Wisconsin

Standards:

ANSI Z21.88-2017/CSA 2.33-2017, Vented Gas Fireplace Heaters

CSA 2.17 - 2017, Gas-Fired Appliances for Use at High Altitudes

This installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

1.2 California Proposition 65 Warning

⚠️ **WARNING:** This product can expose you to chemicals including Carbon Monoxide, that is an externally vented by-product of fuel combustion, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

1.3 Requirements for the Commonwealth of Massachusetts

The following requirements reference various Massachusetts and national codes not contained in this manual.

For all sidewall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1.3.1 Installation of Carbon Monoxide Detectors

At time of installation of side wall horizontally vented gas fueled equipment, the installing plumber or gas-fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas-fitter shall observe that a battery operated or hard wired carbon monoxide detector is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

1.3.2 Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

1.3.3 Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print no less the one-half inch (½) in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

1.3.4 Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08 (2) (a) 1 through 4.

1.3.5 Exemptions

The following equipment is exempt from 248 CMR 5.08 (2) (a) 1 through 4: The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

1.3.6 Manufacturer Requirements

1.3.6.1 Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

1.3.7 Gas Equipment Venting System NOT Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting systems" instructions shall be included with the appliance or equipment installation instructions and;
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

2.0 SPECIFICATIONS

2.1 Heating Specifications

	Natural Gas	Propane
Maximum Input Rating	30,000 Btu/h 8.8 kW	30,000 Btu/h 8.8 kW
Minimum Input Rating	10,000 Btu/h 3 kW	10,000 Btu/h 3 kW
Manifold Pressure (High)	3.8" WC (0.95 kPa)	11" WC (2.74 kPa)
Manifold Pressure (Low)	1.1" WC (0.27 kPa)	2.9" WC (0.72 kPa)
Orifice Size (DMS)	FRONT: 48 BACK: 52	FRONT: 56 BACK: 58

2.1.1 Altitude Adjustment

This appliance may be installed at higher altitudes. Please refer to National Fuel Gas Code ANSI Z223.1/NFPA 54, CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes having jurisdiction in you area regarding derate guidelines.

2.1.1.1 US Installations

Refer to the American Gas Association guidelines for the gas designed appliances derating method. For elevations above 2,000' (610m), input ratings are to be reduced by 4% for each 1,000' (305m) above sea level.

2.1.1.2 Canadian Installations

When the appliance is installed at elevations above 4,500' (1,372m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1,000' (305m).

2.2 Electrical Specifications

- The junction box in this appliance requires 120VAC, 60Hz, and 6 Amps.
- Verify the household breaker is shut off prior to working on any electrical lines.
- The AC power supply to this appliance must be hot at all times and shall not have a switch installed in it.

2.3 Appliance Dimensions

TOP VIEW

20 1/16"
(510mm)

16"
(406mm)

LEFT SIDE

FRONT VIEW

RIGHT SIDE

GAS LINE HOLE

ELECTRICAL
ACCESS

1 3/16"
(31mm)

14"
(356mm)

6 3/4"
(172mm)

1 1/8"
(28mm)

27 11/16"
(703mm)

19 7/8"
(505mm)

17 15/16"
(456mm)

29 5/8"
(753mm)

12 9/16"
(319mm)

3 3/16"
(81mm)
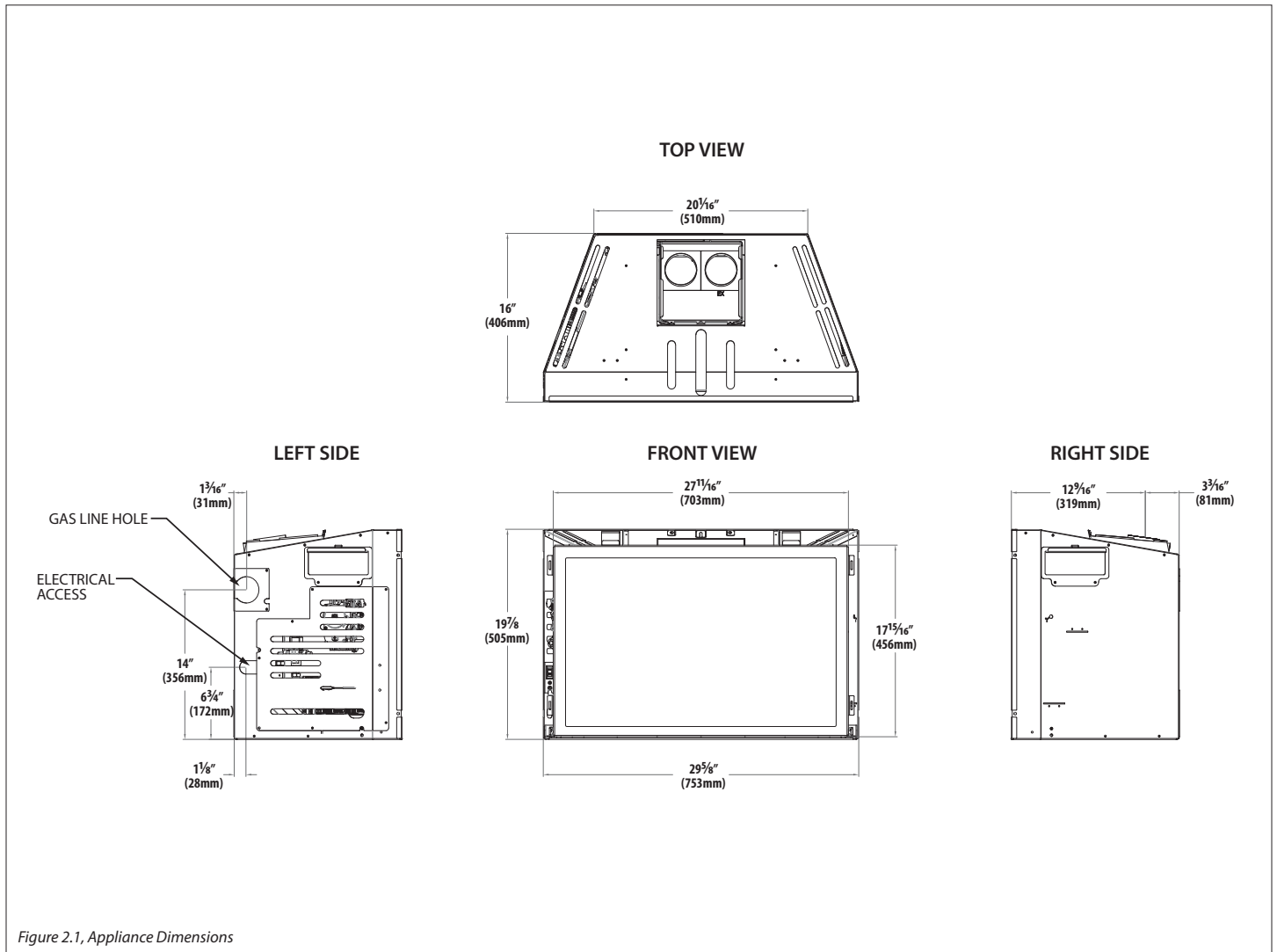
Figure 2.1, Appliance Dimensions

2.4 Part Assembly Overview

WARNING: Failure to position these parts in accordance with these diagrams, or failure to use only specified approved parts with this appliance, may result in property damage or personal injury.
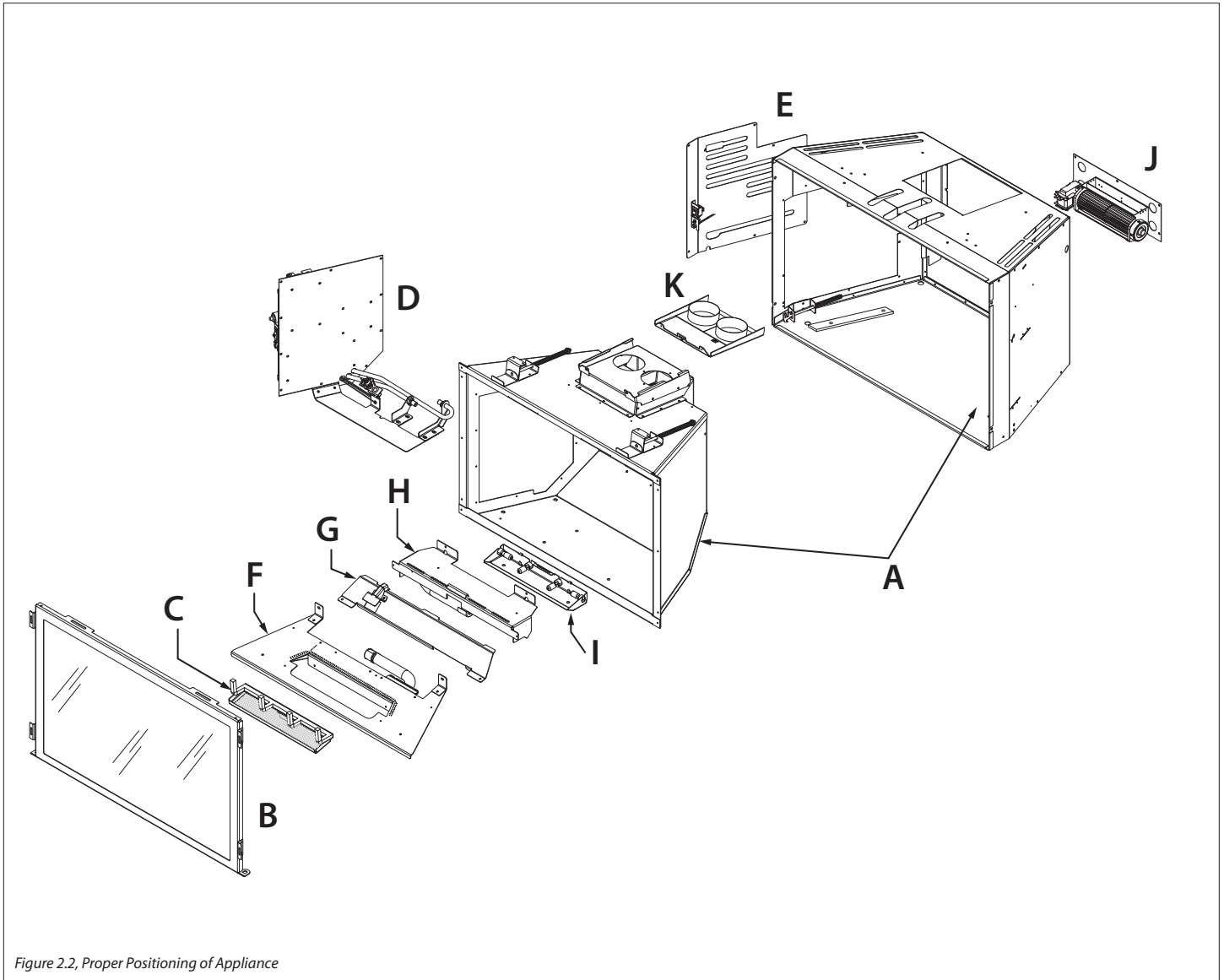
Figure 2.2, Proper Positioning of Appliance

	Table 2.1, Field-Assembled Parts			
A	Fireplace insert		G	Burner air flow plate
B	Glass frame assembly		H	Back burner assembly
C	Ember media tray and log rack		I	Light Kit
D	Control board assembly		J	Fan Kit
E	Component access cover		K	Co-linear vent adapter
F	Front burner assembly			

2.5 Safety Barrier Dimensions

WARNING: A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

If the barrier becomes damaged, the barrier shall be replaced with Hussong Mfg.'s barriers for this appliance.

IMPORTANT: Consider the height of hearth finish material when building a fireplace platform. Proper installation of safety barriers require the bottom of the fireplace to be level with finished hearth.

See section 8.3 Safety Barrier Installation on page 22 for installation and removal of safety barriers.

30⅝"
(777mm)

20⁵⁄₁₆"
(515mm)

RT29A-MSF

31"
(787mm)

19¾"
(501mm)

22⁹⁄₁₆"
(573mm)

RT29A-FPDSF

30⅝"
(777mm)

20⁵⁄₁₆"
(515mm)

RT29-PSF

30⅝"
(777mm)

20⁵⁄₁₆"
(515mm)

RT29-RSF

31"
(787mm)

20¾"
(527mm)
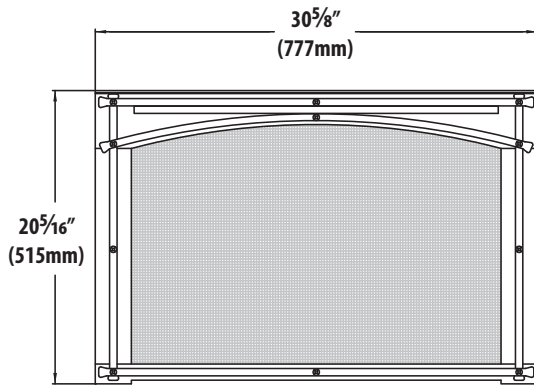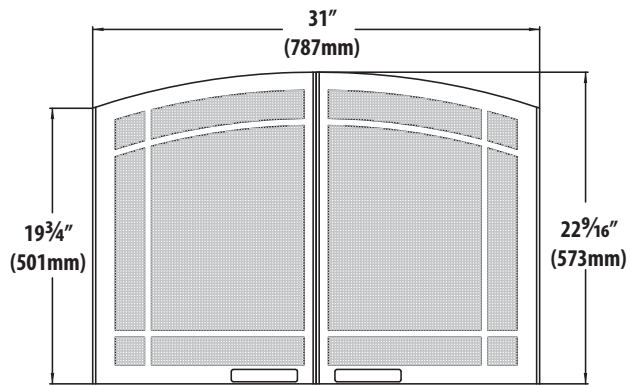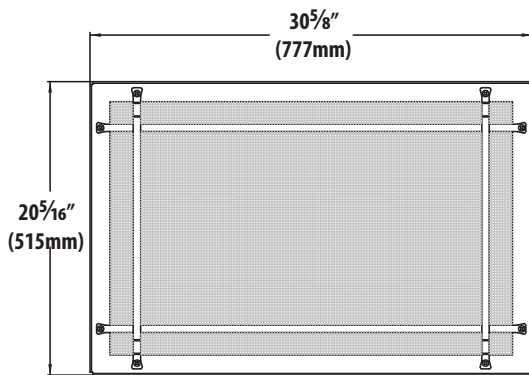
RT29-FSF

3.0 EXISTING FIREPLACE REQUIREMENTS

3.1 Appliance Placement Considerations

WARNING: Due to high surface temperatures, the fireplace insert should be located out of traffic and away from furniture and draperies.

•   This fireplace must be installed on a level surface capable of supporting the fireplace insert and venting.

•   This fireplace insert may be installed in a bedroom.

•   Please be aware of the large amount of heat this fireplace insert will produce when determining a location.

3.2 Existing Fireplace Specifications

IMPORTANT: Adequate accessibility clearances for servicing and proper operation must be maintained.

•   Any smoke shelves, shields, and baffles may be removed if attached by mechanical fasteners. If necessary, remove firebrick to obtain at least the minimum opening requirements.

•   Cutting of any sheet metal parts of the existing fireplace is prohibited.

•   A gas line must be able to be installed to the fireplace insert. Please refer to Figure 2.1 on page 9. The gas line access hole is located on the left side of the insert.

•   If the metal floor is removed, the insert must be placed directly on metal base of metal fireplace using the Kozy Heat Floor Protector Kit 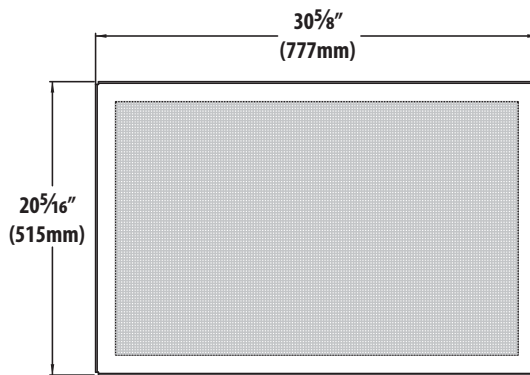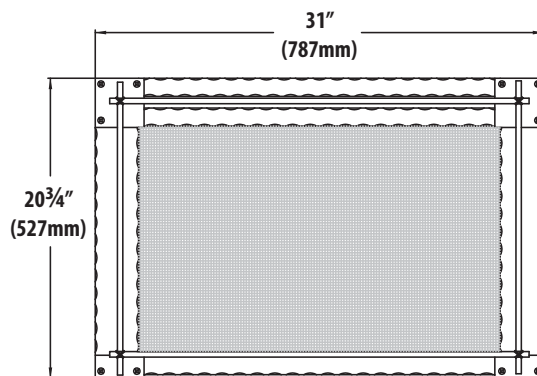(#RT29-FLP). The provided leveling bolts with the fireplace must be installed at the bottom corners of the gas insert for the required 1/4" (6mm) air space to the floor protector.

•   Mechanically attach 'THIS UNIT HAS BEEN MODIFIED' label at bottom of existing firebox so it will be visible if this gas fireplace insert is removed.

Figure 3.1, RT29-FLP
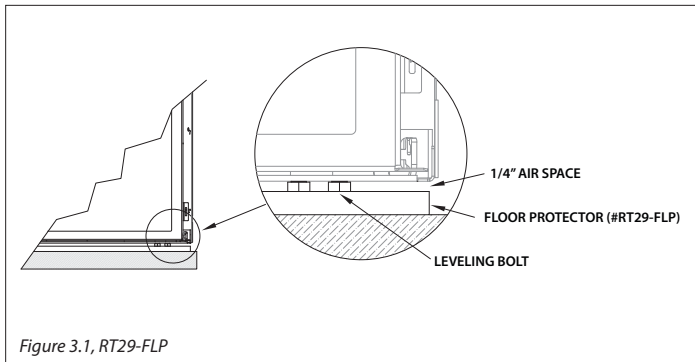
3.2.1.1 Existing Fireplace Opening Minimum Requirements

If installing the #RT29-FLP, add 3/4" (19mm) (total dimension of floor protector and airspace) to height to maintain minimum opening clearances.

(A)   Height ....20" (508mm)
(B)   Front Width ....29-¾" (755mm)
(C)   Depth ....16" (406mm)
(D)   Back Width ....20-⅜" (517mm)

Figure 3.2, Existing Opening Guide
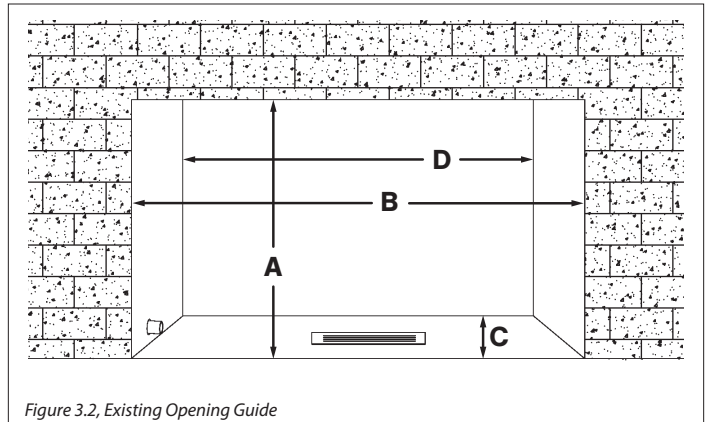
3.2.1 Chimney Specifications

WARNING: Any chimney clean-outs must fit properly.

This fireplace insert is to be installed into a solid fuel masonry or factory built non-combustible fireplace that has been installed in accordance with the national, provincial, state, and local building codes.

The existing chimney must be comprised of one of the following:

* Factory-built solid fuel chimney: 7" (178mm) minimum inside diameter
* Masonry chimney: 6" x 8" (152mm x 203mm) minimum inside diameter

Existing chimney height:

* Minimum: 10' (3.05m) Maximum:
NATURAL GAS: 50' (15.24m); PROPANE: 40' (12.19m)

In certain circumstances where a chimney no longer terminates through the roof line, a co-linear to co-axial adapter may be installed where the existing chimney ends. After the adapter, the co-axial pipe must maintain 1" (25mm) clearance to combustibles on all sides of the vent pipe. Refer to Sections 4.2 (pg. 14) and 6.3 (pg. 17) for other co-linear to co-axial conversion considerations and requirements.

3.2.1.1 Determine Length of Existing Chimney

1. Remove and discard existing chimney cap.
2. NOTE: It is helpful to have two people complete this step. Position one person at the fireplace opening and another person at the top of the chimney.
3. Measure from the fireplace base to the top of the chimney.
4. Subtract the height of the insert from the previous measurement.
5. This is the total length of the co-linear flexible aluminum pipe required for your installation. If using Kozy Heat #816, cut to length.

MIN: 10 ft (3 m)
MAX:
PROPANE: 40 ft (12.19 m)
NATURAL GAS: 50 ft (15.24 m)
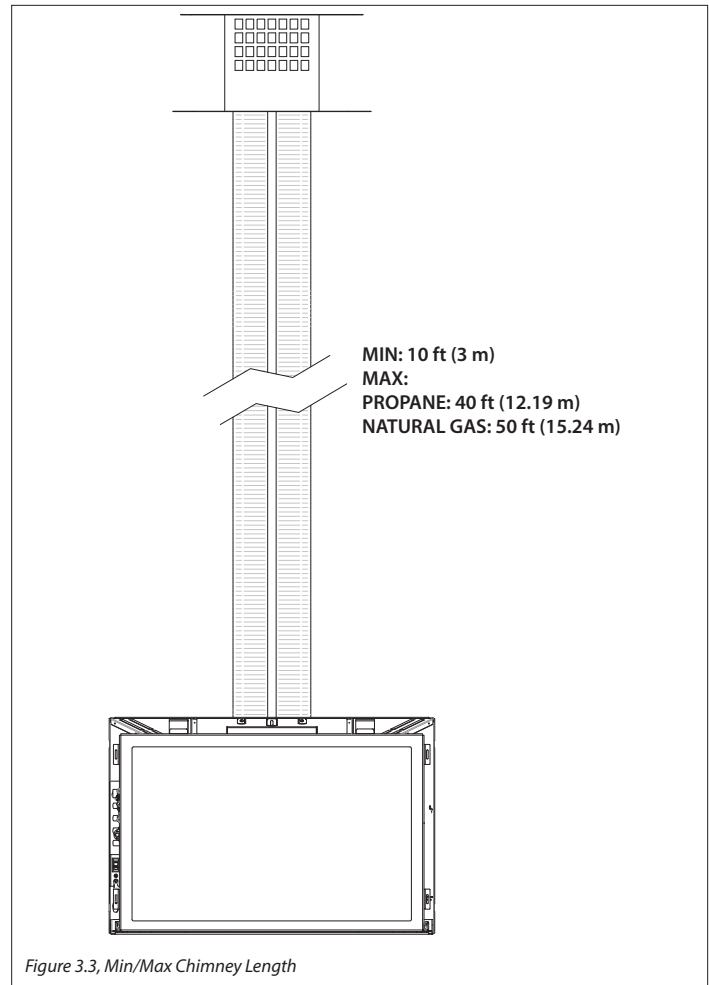
Figure 3.3, Min/Max Chimney Length

4.0 TERMINATION LOCATION

4.1 Chimney Vent Termination Clearances

WARNING: This appliance must not share or be connected to a chimney flue serving any other appliance.

- Approved vent caps require 12" (305mm) clearance to intersecting walls, overhangs or eaves as verified by test.
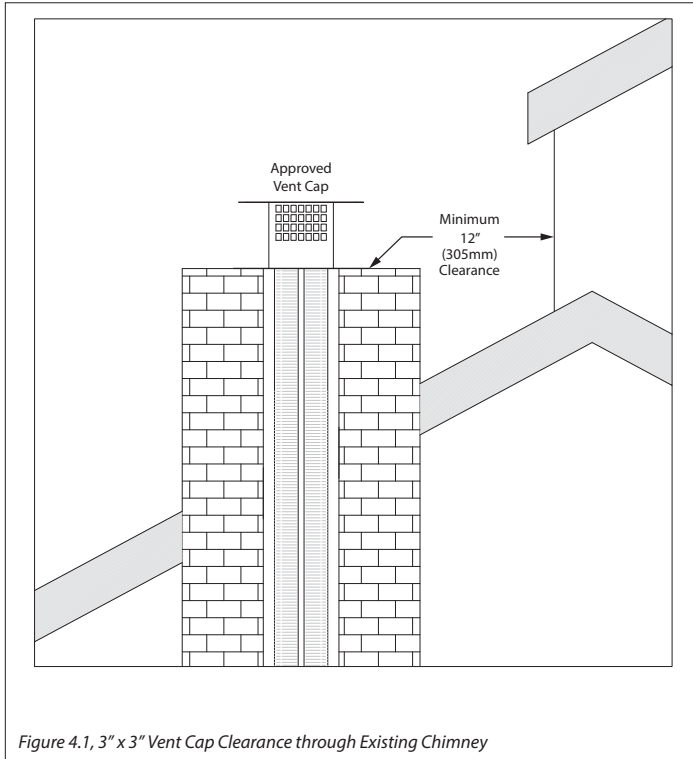
Figure 4.1, 3" x 3" Vent Cap Clearance through Existing Chimney

4.2 Co-linear to Co-axial Vent Terminations

WARNING: This appliance must not share or be connected to a chimney flue serving any other appliance.

When combining co-linear and co-axial venting in a single venting system using an approved 4" x 6-5/8" adapter, use Figure 4.2, Figure 4.3, and Table 4.1 for proper termination clearances.
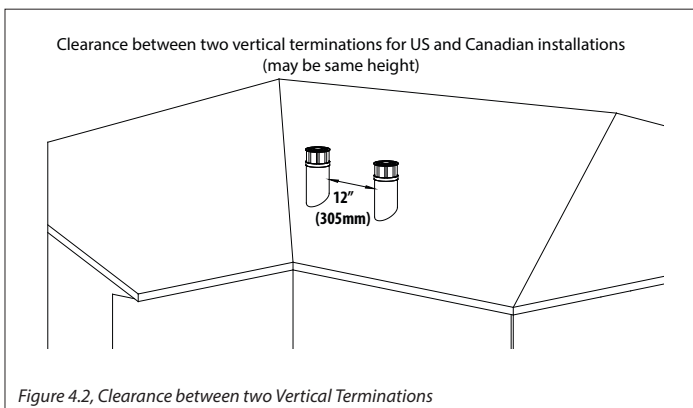
Figure 4.2, Clearance between two Vertical Terminations
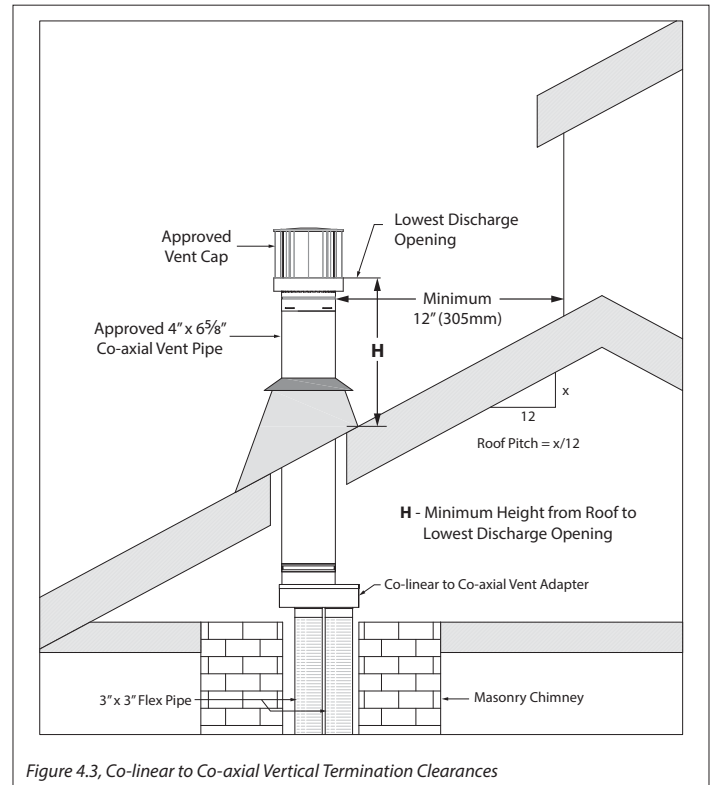
Figure 4.3, Co-linear to Co-axial Vertical Termination Clearances

Table 4.1, Minimum Vertical Termination Height (use with Figure 4.3)		
	Minimum height (H) from roof	
Roof Pitch	**Feet**	**Meters**
Flat to 6/12	1.0	0.30
Over 6/12 to 7/12	1.25	0.38
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2.0	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4.0	1.22
Over 12/12 to 14/12	5.0	1.52
Over 14/12 to 16/12	6.0	1.83
Over 16/12 to 18/12	7.0	2.13
Over 18/12 to 20/12	7.5	2.27
Over 20/12 to 21/12	8.0	2.44

5.0 INSTALLATION PREPARATION

NOTE: This gas fireplace insert is approved for installation in masonry and factory-built solid fuel burning fireplaces.

ATTENTION: Any removed parts must be capable of re-installation if this insert is ever removed. Removal of rivets or screws is acceptable.

5.1 Inspect and Clean Existing Chimney

• Verify existing chimney is constructed of non-combustible material.

• Verify existing chimney is clean and in good working order. Clean existing chimney and fireplace to prevent a creosote odor from entering the home.

• Verify combustible mantel and sidewall clearances comply with Section 8.1 Facing and Finishing Requirements on page 23.

• The refractory, glass doors, screen rails, screen mesh, and log grates may be removed from existing fireplace before installing this gas fireplace insert.

5.2 Flue Damper

• The fireplace flue damper can be fully blocked open, or removed for installation of this gas fireplace insert. Remove existing chimney cap.

5.3 Gas Line

• A gas line must be able to be installed to the insert.

• If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1½" (37.5mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. The access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

• Run gas line to the gas fireplace insert through the gas line hole provided. The gas access hole is located on the left side of the unit. Do not run gas line in a manner that would obstruct fan operation.

• If the gas fireplace insert is to be installed into minimum opening dimensions, the gas line may need to be run after appliance placement due to space limitations.

5.4 Electrical Wiring

• Provisions must be made to provide electrical power for appliance operation.

• See Figure 2.1 on page 9 for electrical outlet box location to run any necessary electrical wiring to the gas fireplace insert.

5.5 Fireplace Conversion

• Mechanically attach the label with the following warning to the bottom existing firebox so it will be visible if this gas fireplace insert is removed.

WARNING: This fireplace has been converted for use with a gas fireplace insert only and cannot be used for burning wood or solid fuels unless all original parts have been replaced, and the fireplace is re-approved by the Authority Having Jurisdiction.

6.0 INSTALLATION

6.1 Approved Vent Systems

Kozy Heat #816 and #816-CAP
For use with minimum 6" x 8" I.D. masonry or 7" I.D. Class A metal chimneys; includes one roll of 36' (10.97m) of expandable 3" flexible pipe and round termination cap.

Other approved vent manufacturers
BDM, American Metals (Amerivent), Metal Fab, Selkirk, Simpson Dura-Vent, and ICC.

This appliance is approved to combine co-linear and co-axial venting in a single venting system using an approved 4" x 6-5/8" adapter. Chimney specifications (Section 3.2.1 on page 12) must be adhered to when converting to co-linear to co-axial vent system. See section 6.3 Co-linear to Co-axial Combined Venting on page 17.

6.2 Kozy Heat #816 and #816-CAP

IMPORTANT: Proper operation of this insert requires the exhaust pipe and combustion air pipe to be connected to their correct flue collar, on both the termination kit and the gas fireplace insert vent adapter.

The fireplace insert exhaust flue collar is located on the right side. Install termination cap with the exhaust flue collar on the right side.

NOTE: The exhaust pipe will have a red marking.

IMPORTANT: Maximum horizontal vent runs of 24" (609mm) require a 1" (25mm) rise per 12" (305mm) run. Care should be taken when installing the flexible vent pipes to avoid a tight bend that may cause abrasion or damage to the flexible pipes.

1. Measure the total chimney length required and cut #816 (36' [10.97m] of 3" flexible pipe) to the measured length.

2. Carefully extend the exhaust and combustion air intake pipes to total chimney length required.

3. Slide the combustion air intake pipe (the end without a collar) over termination cap collar (A). Secure to #816-CAP termination cap (E) with (3) self-tapping screws (not provided).

4. Place a bead of sealant around the inner edge at the end of the exhaust pipe (without collar / red marking) and slide onto the corresponding labeled collar (B) on termination cap (E).

5. Secure the exhaust pipe to termination cap (E) with (3) self-tapping screws (not provided). Apply additional sealant around joint to ensure a proper seal.

6. Complete vent system installation by following the instructions outlined in Sections 6.3 through 6.6.

#816 and #816-CAP

(A) Intake Collar (extends through bottom plate)

(B) Exhaust Collar (extends through middle divider plate)

(C) Sealant (not provided)

(D) #816-CAP Termination Cap

COMBUSTION AIR INTAKE 3" FLEX LINER

EXHAUST VENT 3" FLEX LINER

USES #816 36 ft (10.97m) EXPANDABLE 3" FLEXIBLE PIPE

COMBUSTION AIR INTAKE COLLAR (LEFT)

EXHAUST COLLAR (RIGHT)

VENT ADAPTER (TOP VIEW)

Figure 6.1, #816-CAP
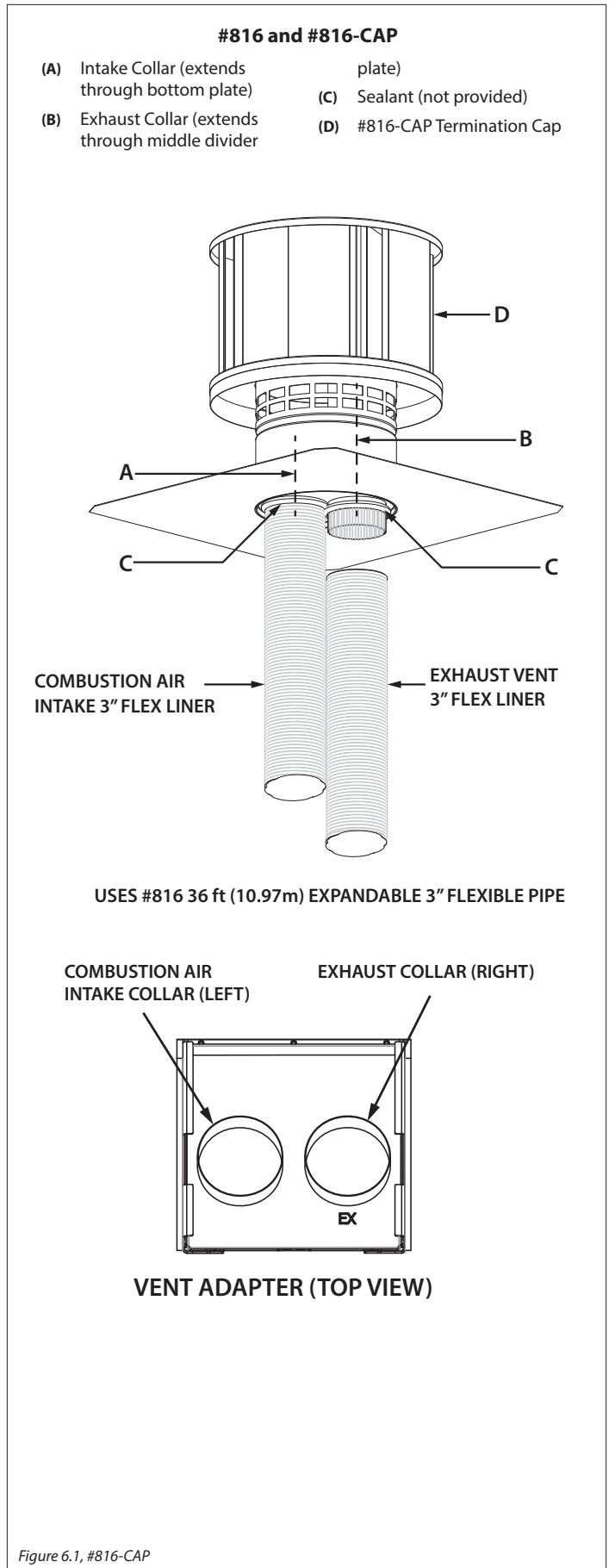
6.3 Co-linear to Co-axial Combined Venting

IMPORTANT: *Maximum horizontal vent runs of 24" (609mm) require a 1" (25mm) rise per 12" (305mm) run. Care should be taken when installing the flexible vent pipes to avoid a tight bend that may cause abrasion or damage to the flexible pipes.*

After the co-linear to co-axial vent adapter, the co-axial pipe requires a minimum of 1" (25mm) clearance to combustibles on all sides of the rigid pipe.

- Maximum horizontal run of 3" x 3" flexible pipe length: 24" (610mm)
- Minimum total combination of co-linear and co-axial vent pipe: 10' (3.05m)
- Maximum total combination of co-linear and co-axial vent pipe:

    PROPANE: 40' (12.19m)

    NATURAL GAS: 50' (15.24m)

Figure 6.2, Co-linear to Co-axial Venting
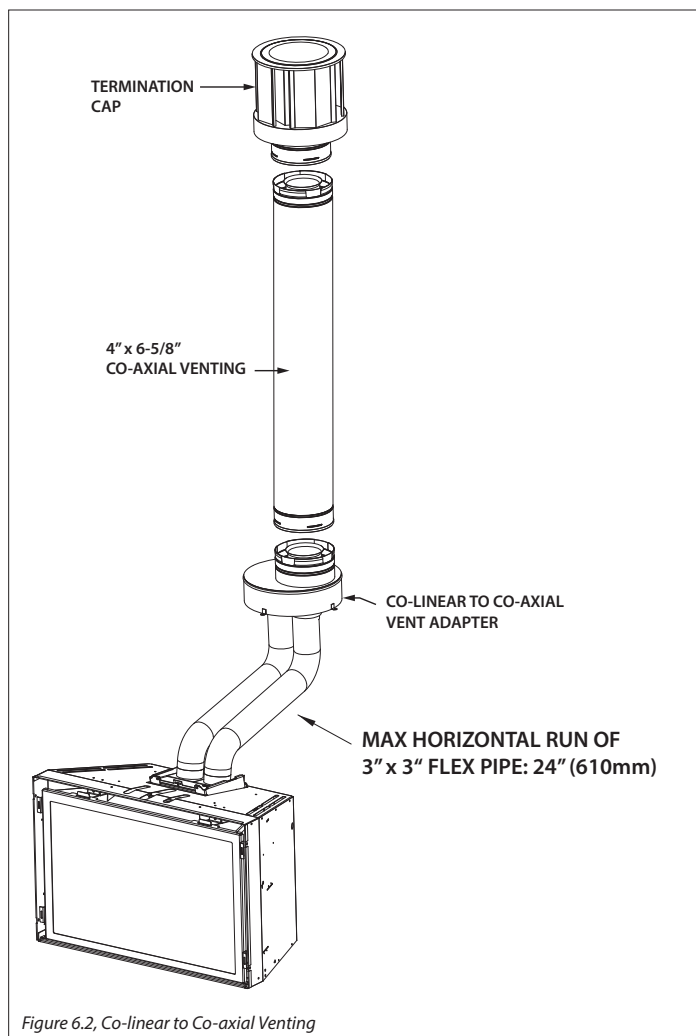
6.4 Remove Vent Adapter

ATTENTION: All information outlined in must be completed before continuing with this installation.

1. Remove the vent adapter at the top of appliance by sliding the vent adapter back out of channels. Refer to the following instructions for vent system attachment to the vent adapter.
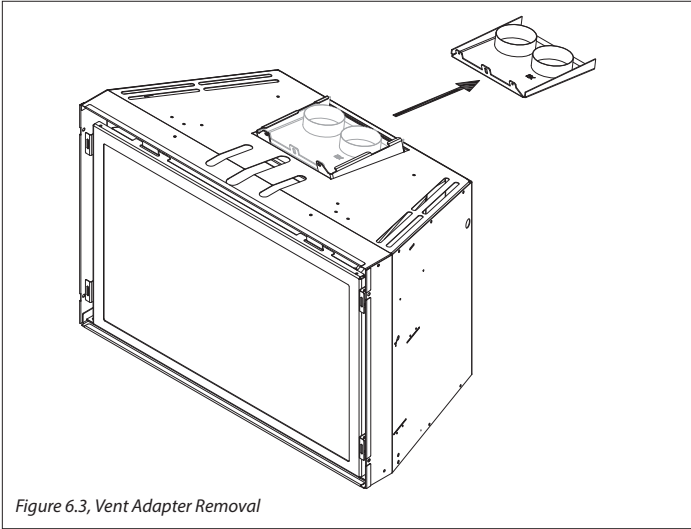
Figure 6.3, Vent Adapter Removal

6.5 Run Vent System

NOTE: If offsets are present in existing chimney, place a weighted rope around the pipe ends to guide them through the chimney. DO NOT ATTEMPT TO TIE ONE ROPE AROUND BOTH PIPES.

• To prevent cold air drafts, Hussong Manufacturing recommends to insulate the 3" x 3" flexible vent pipes and chimney using unfaced insulation products listed as noncombustible per ASTM E 136.

1. OPTIONAL: Before installing vent system down through the chimney, place unfaced insulation around the first 3' (914mm) of vent system below termination cap. Secure with wire.

2. Install the 3" x 3" flexible pipes down through existing chimney. Guide ropes (if used) to aid installation.

3. To secure chimney termination cap to chimney, apply a liberal bead of sealant (provided) around the top of the chimney. Set termination cap into position as instructed by vent system manufacturer's installation manual.

    OPTIONAL Kozy Heat #816-CAP: Secure termination cap to existing chimney with 2" (50mm) self-tapping screws and anchor straps (not provided) through the pilot holes, located on the sides of the termination cap.

4. From inside the existing fireplace, carefully pull ropes (if used) or the flexible pipes down until both exhaust pipe and combustion air intake are into the existing fireplace firebox.

5. OPTIONAL: To prevent heat loss up chimney, place unfaced insulation products listed as non-combustible per ASTM E 136 between the 3" x 3" flexible vent pipes and chimney.

Figure 6.4, Chimney Vent Run

6.6 Connect Vent Pipe to Vent Adapter

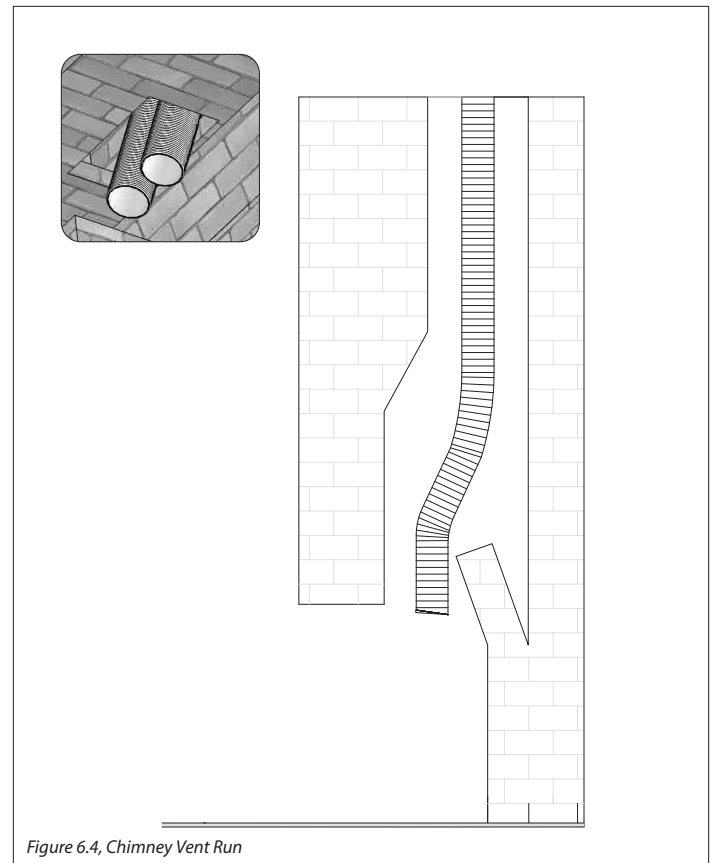*IMPORTANT: Proper operation of this insert requires the exhaust pipe and combustion air pipe to be connected to their correct flue collar, on both the termination kit and the gas fireplace insert vent adapter.*

1. Place previously removed vent adapter into existing fireplace opening.

2. Connect exhaust vent pipe (red marking) to exhaust collar on vent adapter. Apply a bead of sealant (provided) around exhaust pipe and slide inside collar marked 'Exhaust.' Secure with provided (3) ½" (13mm) self-tapping screws. Apply additional sealant around join to ensure an air tight seal.

3. Connect air intake vent pipe to intake collar on vent adapter. Apply a liberal bead of sealant around intake collar on vent adapter. Slide combustion intake pipe over the collar and secure with provided (3) ½" (13mm) self-tapping screws. Apply additional sealant around joint to ensure an air tight seal.

4. Visually check vent pipe connection to vent adapter.

6.7 Place and Secure Appliance

1. Slide the gas fireplace insert into existing fireplace opening until the channels on top of the appliance are aligned with the vent adapter.

2. Insert the vent adapter pull rod handle through access slot at the top of appliance and place pull handle hook through the hole in pull rod. Simultaneously push the gas insert into existing fireplace and pull the vent adapter forward until seated.

3. Secure vent adapter to appliance by using slots at the top of the appliance to secure with (2) ½" (13mm) sheet metal screws (included in components packet).

4. Use the pull rod handle to pull the vent adapter back to starting position. Remove pull handle. Verify vent system connection.

5. If necessary, level the gas insert by threading leveling bolts (included in components packet) into nuts at the bottom of the insert (2 each side). Verify appliance is properly positioned.

VENT ADAPTER

FLEXIBLE PIPES

SHEET METAL SCREWS (3 TOTAL)

SEALANT

SEALANT

Figure 6.6, Vent Pipe Connection to Vent Adapter
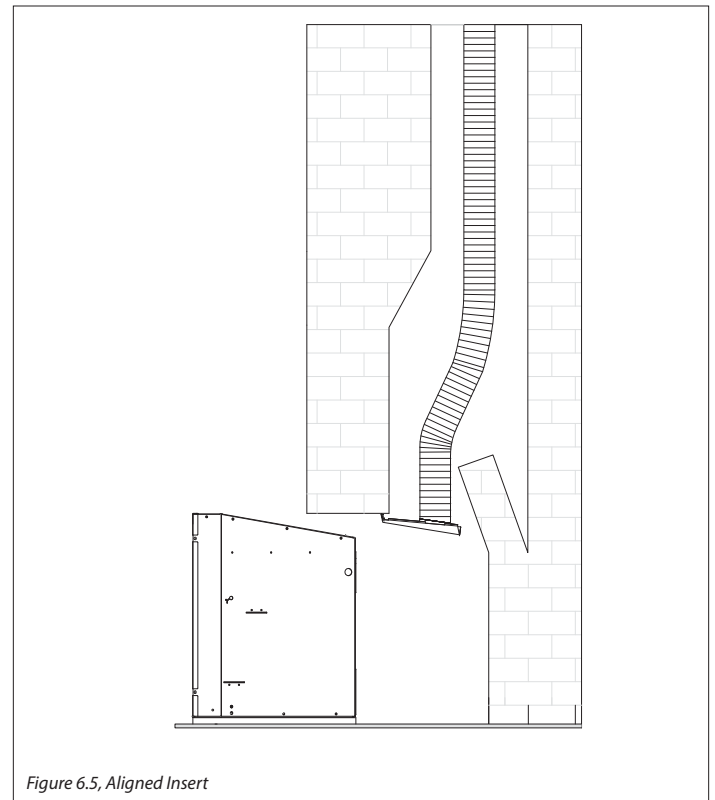
Figure 6.5, Aligned Insert

6.8 Outdoor Covered Fireplace Installation

An outdoor covered fireplace installation allows a fireplace to be installed in an outdoor covered area, where the appliance is protected from direct precipitation.

Follow the instructions and illustrations for installation procedures. Drawings are for reference only and your fireplace may look different than shown.

6.8.1 Safety Screen Barriers

Hussong Mfg. highly recommends to use black painted safety barriers in outdoor installations. Other screen barriers that incorporate a plated or patina finish are highly susceptible to oxidation and discoloration.

6.8.2 Requirements

- The continuous insulated building envelope and weatherproof membrane is not to be interrupted by fireplace installation. See Figure 6.8 on the following page.

- Fireplace operation is approved from 40°F to 110°F.

- All wiring connections shall be in accordance with outdoor requirements of NECA NFPA 70.

- All clearances and requirements in this manual must be adhered to.

The overhang (A) must be a minimum of 1/2 or greater of the roofline elevation (B) above the base of the fireplace.

The width of the overhang to each side of the appliance (C) must be a minimum of 1/2 or greater of the roofline elevation (B) above the base of the fireplace.

EXAMPLE: If roofline (B) is 10 ft above the base of fireplace, the overhang (A) must be 5 ft or greater. The width of the overhang to EACH side of the fireplace (C) must be 5 ft or greater.

Figure 6.7, Outdoor Covered Fireplace Installation

6.8.3 Outdoor Covered Fireplace Installation (continued)

INSIDE

Continuous insulated building envelope and weatherproof membrane is not interrupted by fireplace installation

Minimum weatherproof overhang in front and sides

Minimum weatherproof overhang in front and sides

OUTSIDE

INSIDE

Minimum weatherproof overhang in front and sides

Minimum weatherproof overhang in front and sides

Free standing structure (weatherproof enclosure)

Figure 6.8, Outdoor Covered Installation 2

7.0 GAS LINE CONNECTION

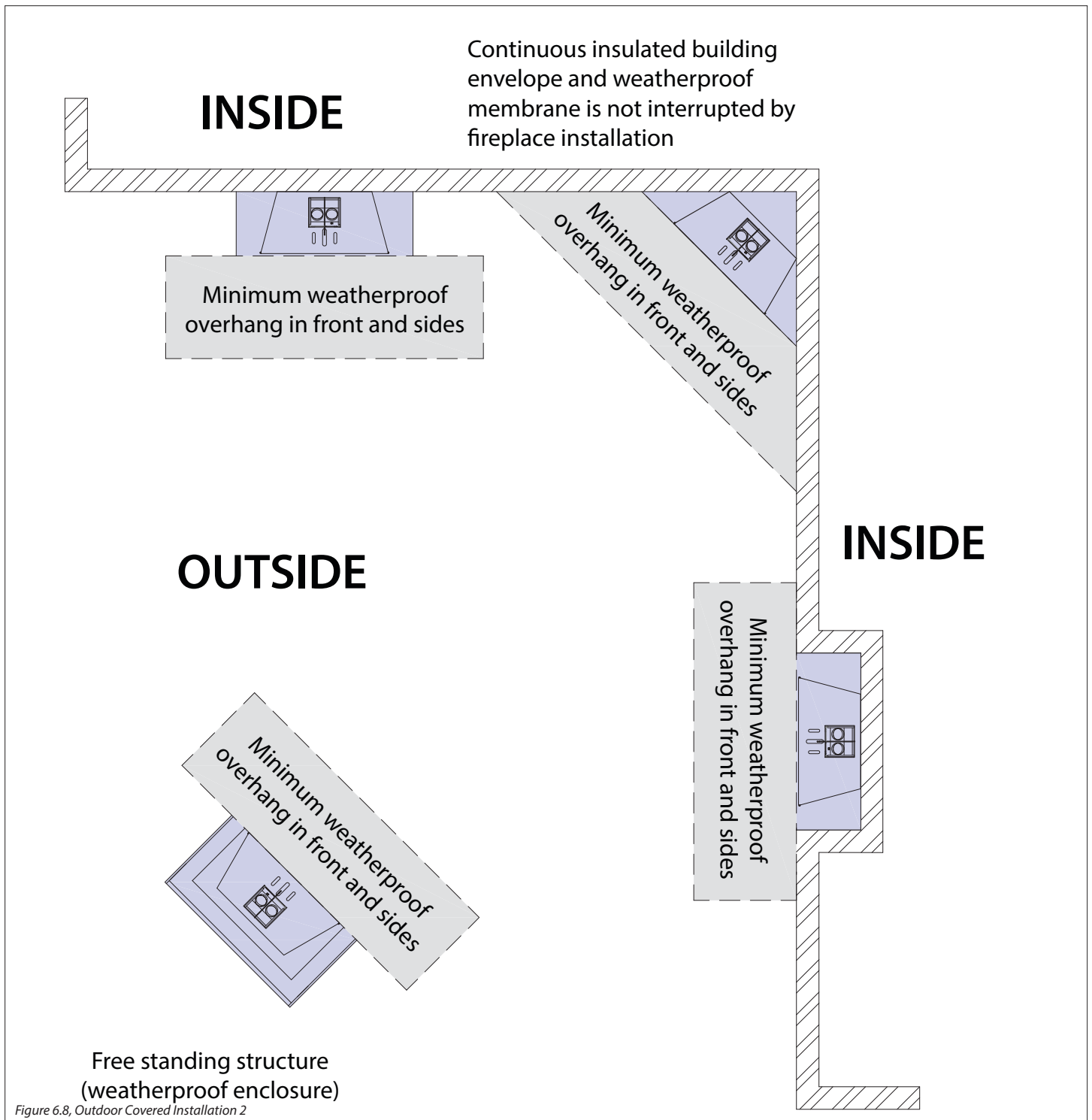## 7.1 Gas Conversion (sold separately)

ATTENTION: The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the ANSI Z223.1 installation code.

This fireplace is manufactured for use with natural gas. Follow the instructions included with the conversion kit if converting to Propane.

7.2 Gas Line Installation

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes, if any. If not, follow ANSI 223.1. Commonwealth of Massachusetts installations must be done by a licensed plumber or gas fitter.

NOTE: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi (3.5 kPa). For test pressures equal to or less than ½ psi (3.5 kPa), the appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve.

- A listed (and Commonwealth of Massachusetts approved) ½" (13mm) tee handle manual shut-off valve and flexible gas connector are to be connected to the ½" (13mm) control valve inlet. If substituting for these components, please consult local codes for compliance.

- If installing this insert into minimum opening dimensions, the gas line may need to be run after placement due to space limitations. See Section 3.2 Existing Fireplace Specifications on page 12.

- This fireplace is equipped with a 3/8" (10mm) x 18" (457mm) long flexible gas connector and manual shut-off valve.

- Run gas line into fireplace, preferably through the left gas line hole provided. See Figure 2.1, Appliance Dimensions on page 9. The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.

- Do not run gas line in a manner that would obstruct fan operation.

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

7.2.3.1 Gas Line Access Position

The gas line access hole cover may be positioned to run the gas line through the left side or through the back.

1. Remove (4) screws securing the gas line access hole cover.

2. Follow Figure 7.1 for positioning the gas line access hole cover necessary for your installation.
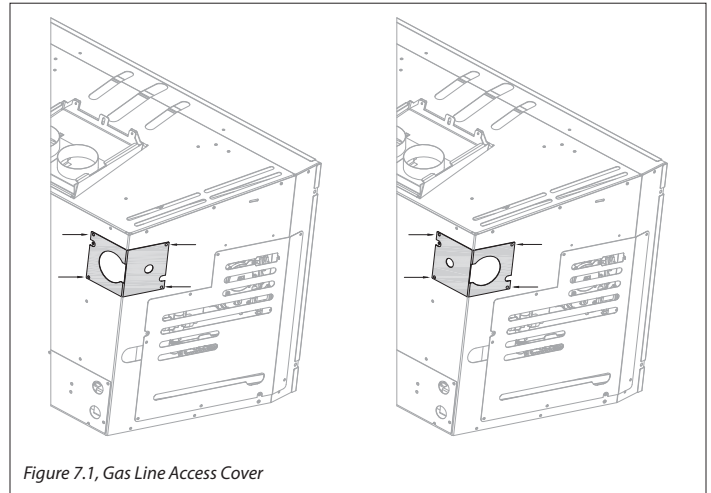
Figure 7.1, Gas Line Access Cover

Table 7.1, Inlet Gas Supply Pressures		
Fuel	**Minimum Pressure**	**Maximum Pressure**
Natural Gas	5" WC (1.25 kPa) *7" WC (1.74 kPa) recommended*	10.5" WC (2.62 kPa)
Propane	12" WC (2.99 kPa) *recommended*	13" WC (3.24 kPa)

8.0 FACING AND FINISHING

8.1 Facing and Finishing Requirements

IMPORTANT: Adequate accessibility clearances for servicing and proper operation must be maintained.

8.1.1 Adjacent Sidewall Requirements

- The adjacent sidewall minimum clearance is 4" (152mm) from the appliance sides (Fig 8.1).

8.1.2 Clearance to Ceiling

- As shown in Figure 8.3, the minimum clearance from the fireplace enclosure floor to the ceiling is 55" (1.04m).

8.1.3 Mantel Requirements

WARNING: All minimum clearances to combustible material MUST be maintained.

- Combustible Mantel Projections - As referenced in Figure 8.2, the 9" (229mm) mantel can start at 8-1/4" (210mm) above the top of the appliance. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 9" (229mm) mantel.

8.1.4 Hearth Requirements

Figure 8.3 shows combustible flooring is allowed to be flush in front of the fireplace insert.

- If you only have non-combustible flooring underneath the fireplace, the insert may be placed directly on the floor.

- If you combustible flooring underneath the fireplace, then the floor protector (Part # RT29-FLP) must be installed and there must be a total of ¾" of space between the insert and the floor. See Figure 8.2.

1/4" AIR SPACE

FLOOR PROTECTOR (#RT29-FLP)

LEVELING BOLT

Figure 8.2, RT29-FLP

COMBUSTIBLE MATERIAL

4" (102mm)

Figure 8.1, Sidewall Clearance

CEILING

55"
(1.4 m)

COMBUSTIBLE MANTEL

45°

12" (305mm)
9" (229mm)

11¼"
(286mm)

8¼"
(210mm)

28⅛"
(714mm)

COMBUSTIBLE FLOOR

CEILING

55"
(1.4 m)

COMBUSTIBLE MANTEL

45°

12" (305mm)
9" (229mm)

11¼"
(286mm)

8¼"
(210mm)

28⅛"
(714mm)

*¾"
(19mm)
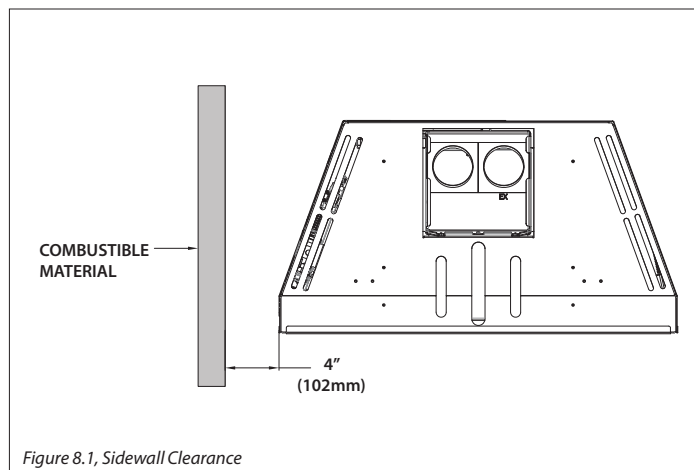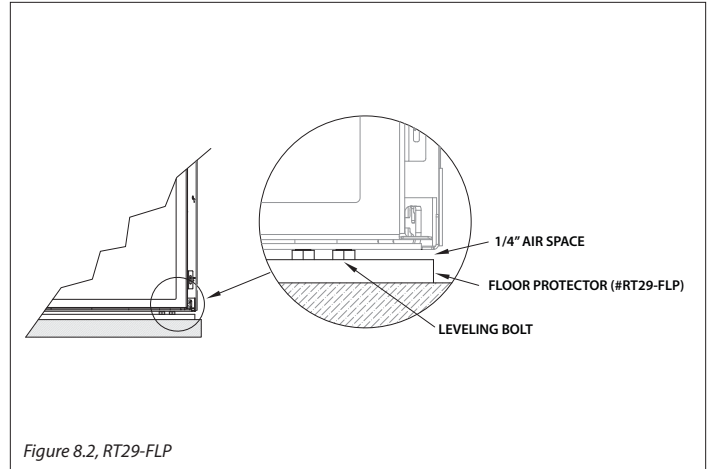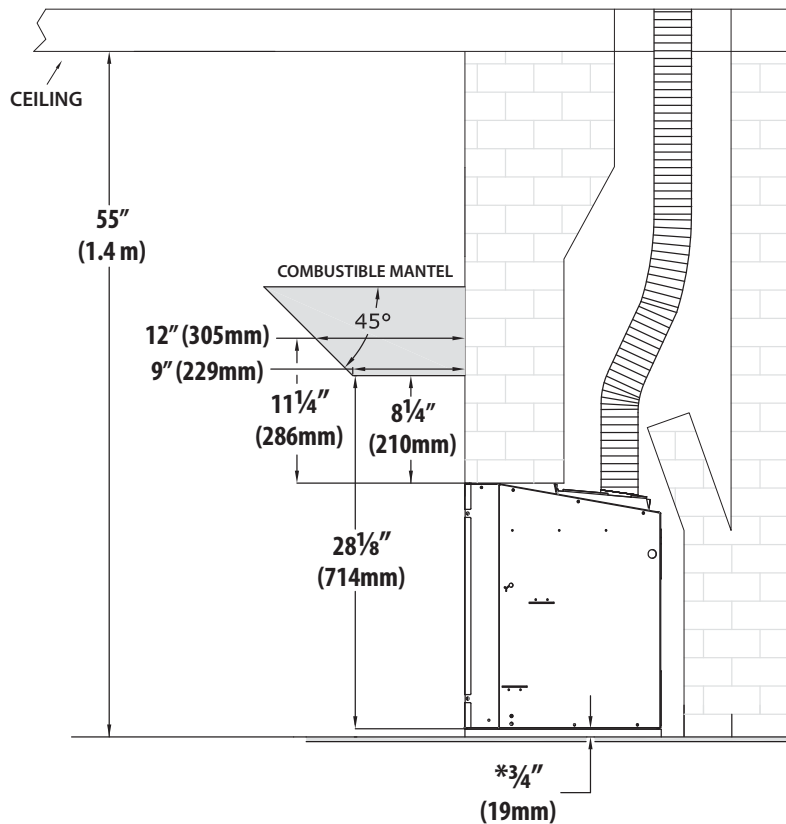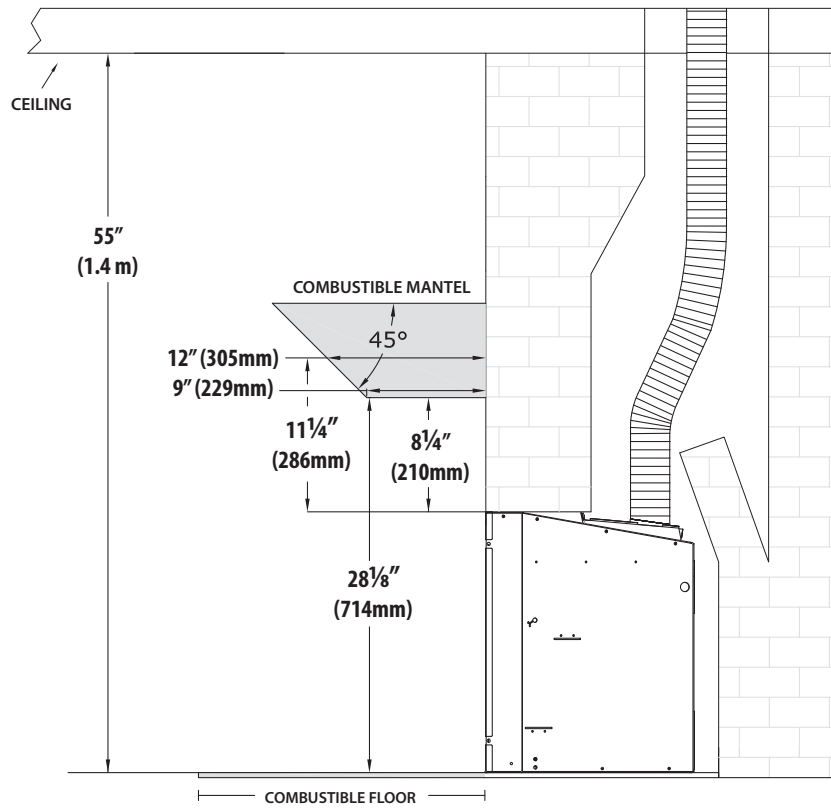
*** required when installing on combustible floor using floor protector (#RT29-FLP)
See Figure 8.2 above for an enhanced view of the RT29-FLP**

Figure 8.3, Mantel Requirements and Clearances

8.2 Shroud Installation

CAUTION: Trim panels or surrounds must not seal ventilation openings in existing fireplace that this appliance is installed in. Draft relief openings must not be covered or blocked.

WARNING: The flow of combustion and ventilation air must not be obstructed.

1. Remove glass frame assembly.
2. Align leg section holes on the shroud to the corresponding mounting nuts in mounting brackets on each side of the insert metal cabinet.
3. Secure with (4) phillips truss head screws (provided).
4. Reinstall glass frame assembly.

8.3 Safety Barrier Installation

1. Locate the (4) slots on the glass frame (2 each side).
2. Align the tabs located on the back of the safety barrier with the slots on the glass frame.
3. Raise the safety barrier slightly into the slots and allow the tabs to lower into position.
• To remove safety screen: lift the screen up and out of slots.
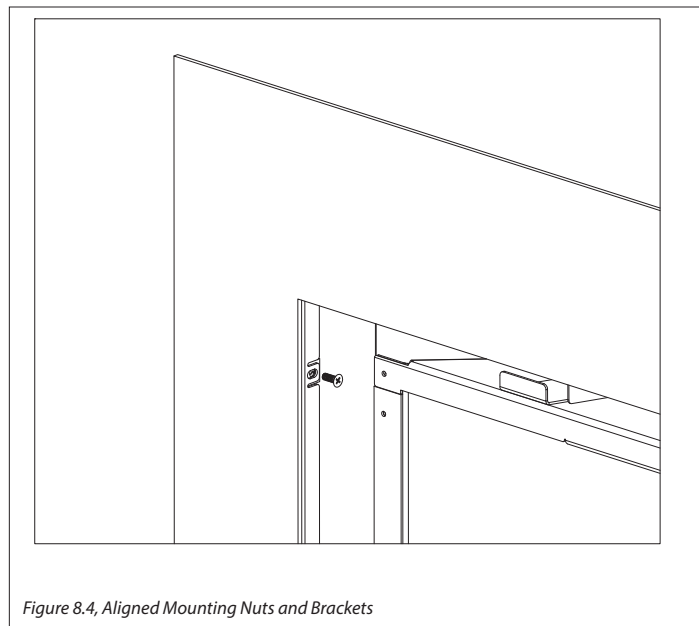
Figure 8.4, Aligned Mounting Nuts and Brackets

9.0 GAS FIREPLACE INSERT SETUP

9.1 Glass Assembly

WARNING: Do not operate this fireplace with the glass removed, cracked, or broken. Replacement of the glass assembly should be done by a licensed or qualified service person.

9.1.1 Remove Glass Assembly

WARNING: Do not remove the glass assembly when hot.

1. Locate (2) spring-loaded latches securing the glass assembly at the bottom of the firebox.
2. Using the glass latch tool (included in components packet), pull the bottom latches out and up to release glass frame assembly latch tabs.
3. Lift glass assembly up and off of the (2) tabs located at the top of the firebox.

9.1.2 Install Glass Assembly

1. Verify bottom latches are pushed down to allow for easier installation.
1. Align the slots on top of the glass assembly over the tabs at the top of the firebox while lowering the bottom of the glass assembly into position.
2. Using the glass latch tool, pull latches out and down over latch tabs to secure glass frame assembly bottom.

Figure 9.1, Upper Tab
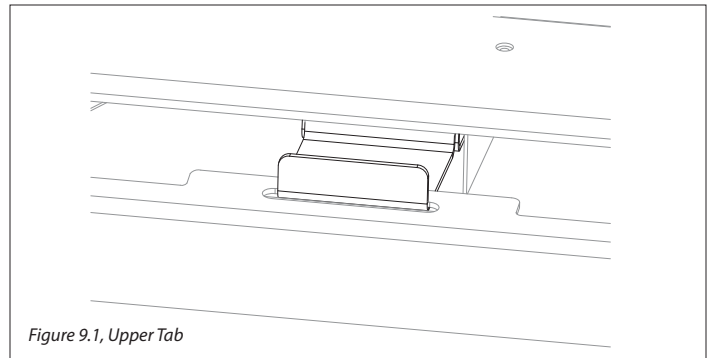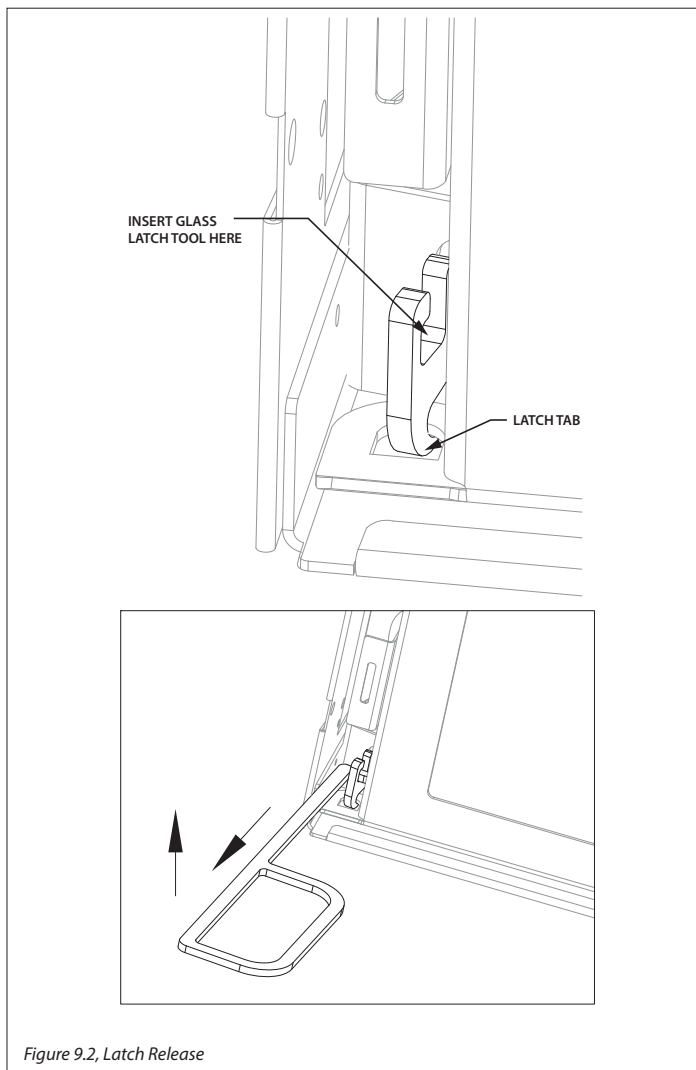
9.2 Light Kit

CAUTION: Disconnect all electrical power from the fireplace before performing this task.

ATTENTION: If converting to propane, complete the conversion before installing any light kit components. Follow instructions provided with the conversion kit (sold separately).

NOTE: To avoid damage and prolong the life of the halogen bulbs, never touch with bare hands. Always use a soft cloth when handling.

9.2.1 Install Light Kit

1. Remove the safety barrier and glass frame assembly.
2. Remove ash panels and birch log set (if installed).
3. Lift up the log rack/ember media tray.
4. Install (2) halogen bulbs (included in components packet) into the lamp bases.
5. Reinstall log/ember media tray. Center the tab on the bottom of tray with the two tabs on the light kit housing.
6. Place 1.5 lb (0.68 kg) of ember crushed glass into ember media tray. Save any unused media for later use.
7. Reinstall all components previously removed.

INSERT GLASS
LATCH TOOL HERE

LATCH TAB

Figure 9.2, Latch Release

9.3 Panel Installation

WARNING: RISK OF FIRE! Do not operate this fireplace insert without a refractory or black enamel panel kit installed.

• Refractory or black enamel panels will provide insulation and are required to operate this fireplace.

• If converting to propane, complete the conversion before installing any refractory or black enamel panels. Follow instructions included with the kit.

BEFORE INSTALLATION:

1. Remove the safety screen barrier, glass assembly, media, and ash panels (if installed).

2. Locate the (2) screws in the front of the firebox and locate the (2) refractory clips shipped with the panels. These clips are shipped flat. Bend the metal finger at a 90° angle.

9.3.1 RT29-CB900, RT29-L900, RT29-RB900

1. Install the back panel. Position the larger rectangle cut out to the bottom of the firebox.

2. Install ash panel.

3. Install side refractory by sliding into position. Secure side refractory with the panel clips previously bent.

4. Reinstall all components previously removed.

9.3.2 RT29-B900

Figure 9.3, Refractory Panel Installation

1. Install the side 16-gauge backer plates. The flat edge along the front of the plate positions at the bottom of the firebox. Tilt the bottom of the plate in first. The plates will install along the side of the burner and sit on the firebox floor.

2. Install the rear porcelain panel, positioning the rectangle cut out to the bottom.

3. Install the side porcelain panels. These are specific to each side and are distinguishable by the flange on the bottom that faces inward.

4. Secure side panels with the panel clips previously bent.

5. Install ash panel.

6. Reinstall all components previously removed.

9.3.3 RT29-BG900

1. Install the 16-gauge back plates to each side of the firebox. Position the flat edge along the front to the bottom of the firebox. Tilt the bottom of the plate in first. The backer plates will install along the side of the burner and sit on the firebox floor.

2. Install the rear glass panel, positioning the rectangle cut out to the bottom. The textured side of the glass is the backside of the panel.

3. Install the side glass panels. The textured side of the glass is the back of the panel, and the top edge will tuck behind the extended lip at the top of the firebox.

4. Install ash panel.

5. Secure side panels with the panel clips previously bent.

6. Reinstall all components previously removed.

Figure 9.4, Side Backer Plate and Glass Panel Installation

9.4 #RT29B-501 Log Set Installation

CAUTION: Do not place logs directly over burner port holes. Improper log placement may affect flame appearance and may cause excessive soot to build upon the glass.

• If converting to propane, complete the conversion before installing the log set. Follow the conversion instructions included with the kit.

• Log numbers located on the bottom of each log. Refer to following instructions and illustrations for proper placement.

1. Install refractory. Follow instructions included with the kit.

2. Install the ash panel.

3. Install log RT29-BW1.

4. Install logs RT29-BW2 and RT29-BW3.

5. Place the rest of the logs as shown below.

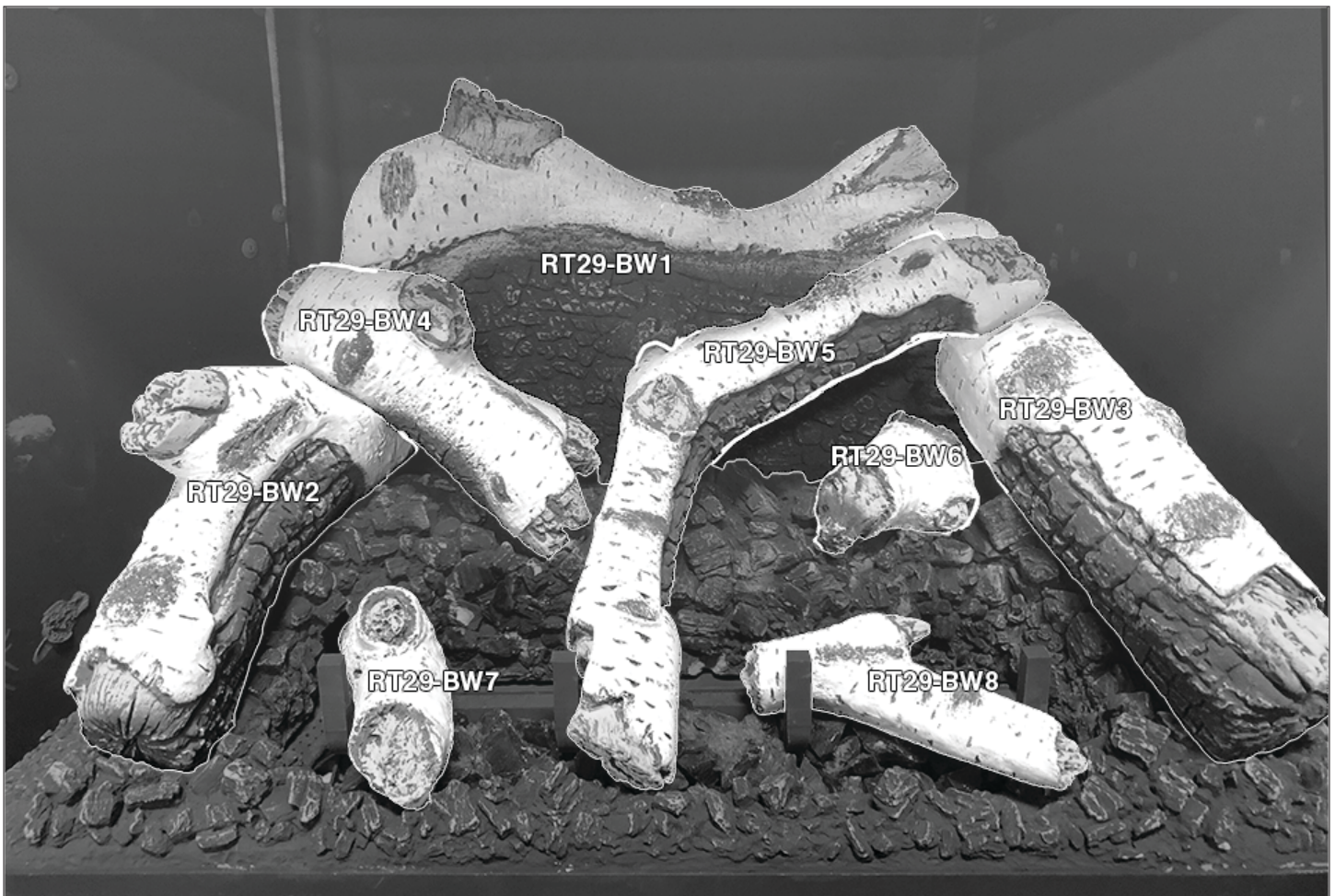6. Use a stiff or steel bristle brush to distribute rockwool embers onto the burner and logs.

Figure 9.5, Installation of RT29B-501

9.5 Control Board Removal and Installation

WARNING: If burner and/or pilot have been burning, use appropriate protection to avoid burns or damage to personal property before removing any components. DO NOT OPERATE THIS APPLIANCE WITHOUT THE SEALING GASKET (LOCATED UNDER THE CONTROL BOARD) IN PLACE. IF GASKETING IS DAMAGED, IT MUST BE REPLACED.

CAUTION: Check all connections for leaks with soapy water, whether field or factory made.

9.5.1 Control Board Removal

1. Disconnect electrical power.
2. Locate the main shut-off valve upstream of the appliance connector and close valve.
3. Remove safety barrier and glass frame assembly.
4. Remove the birch log set and ash panel.
5. Remove refractory panel set. Loosen screws securing refractory clips on the baffle (2 each side) to remove left and right panels.
6. Remove the log rack/ember media tray.
7. Remove burner airflow plate (2) screws and its brackets (4) screws.
8. Remove back burner assembly (2) screws.
9. Remove front burner assembly (2) screws.
10. Remove light kit housing (2) screws.
11. Remove (10) screws and (1) nut securing the control board on the left side of the firebox.
12. Pull out control board out to reveal gas line to disconnect the gas line flex tube from fireplace valve.

9.5.2 Control Board Installation

1. Place control board on the left side of the firebox and reconnect gas line to fireplace valve.
2. Verify sealing gasket is in place. Secure board with (10) screws and (1) nut previously removed.
3. Reinstall light kit housing (2) screws previously removed.
4. Reinstall front burner assembly. Position the burner tube venturi over the front burner orifice and secure with (2) screws previously removed.
5. Reinstall back burner assembly. Position the burner tube venturi over the front burner orifice and secure with (2) screws previously removed.
6. Reinstall the burner airflow plate brackets (4) screws and the burner airflow plate (2) screws (previously removed).
7. Reinstall refractory panel set.
8. Reinstall accent kit and ash panel.
9. Reconnect electrical power.
10. Reinstall the glass frame assembly and safety barrier.
11. Verify proper log placement, operation of fireplace, and any electrical components.

REMOVE BURNER AIRFLOW PLATE (2) SCREWS

REMOVE BURNER AIRFLOW PLATE BRACKETS (4) SCREWS

REMOVE BACK BURNER BURNER ASSEMBLY (2) SCREWS

REMOVE FRONT BURNER (2) SCREWS

REMOVE LIGHT KIT HOUSING (2) SCREWS
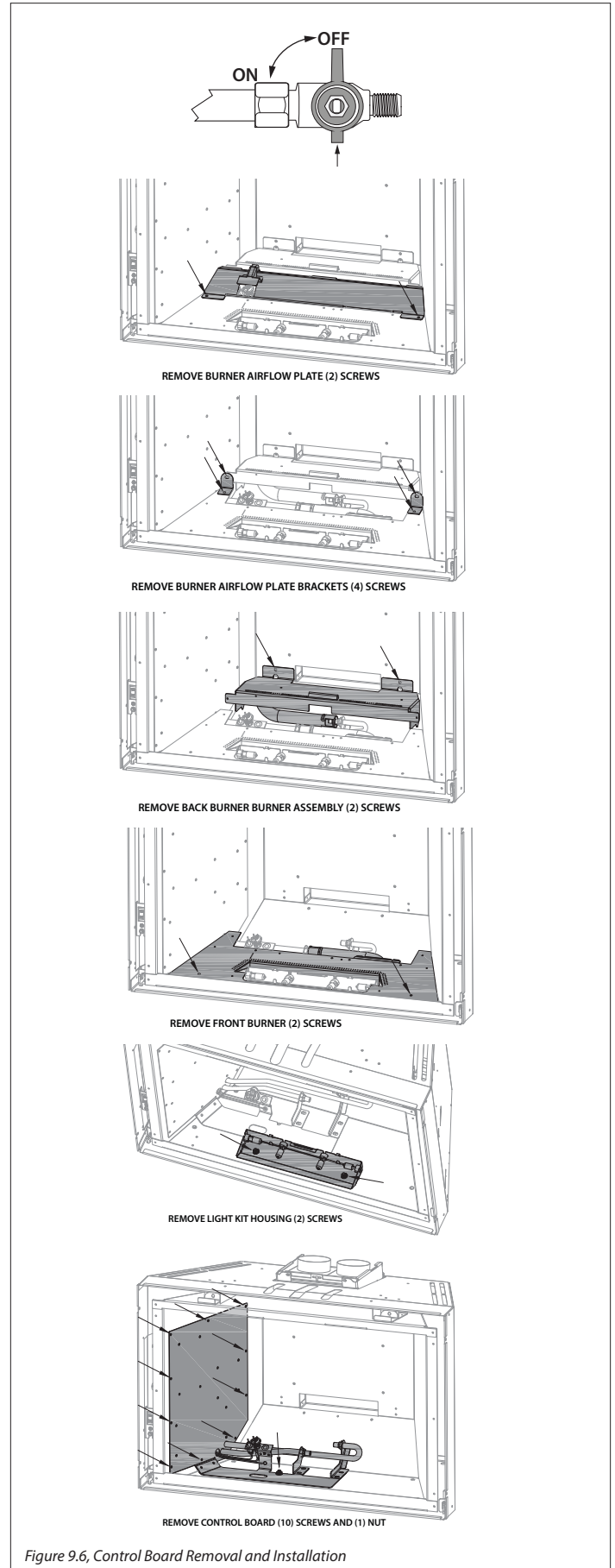
REMOVE CONTROL BOARD (10) SCREWS AND (1) NUT

Figure 9.6, Control Board Removal and Installation

10.0 ELECTRICAL INFORMATION

WARNING: Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.

WARNING - Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

10.1 Electrical Specifications

This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

10.2 Wiring Requirements

- The IFC System Module requires 120V of electricity and/or batteries to operate.

- Using the battery back-up will operate the burner only.

- Fan and light components will not function on battery back up power.
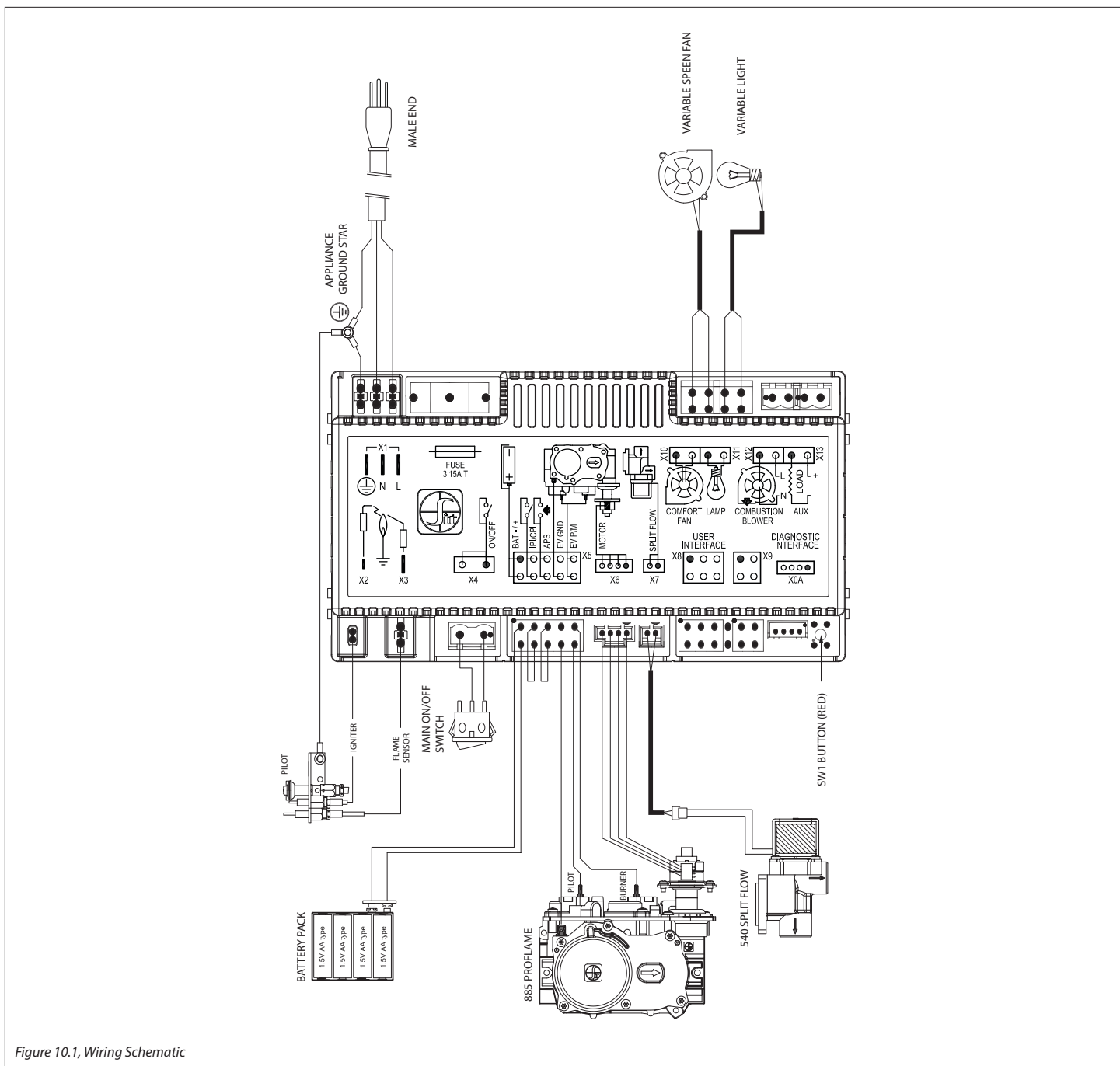

Figure 10.1, Wiring Schematic

11.0 OPERATING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

A.   This appliance is equipped with an ignition device which automatically lights the pilot. Do <u>not</u> try to light the pilot by hand.

B.   **BEFORE OPERATING** smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

   WHAT TO DO IF YOU SMELL GAS
   • Do not try to light any appliance.
   • Do not touch any electric switch; do not use any phone in your building.
   • Immediately call your gas supplier from a neighbor's phone.

   Follow the gas supplier's instructions.
   • If you cannot reach your gas supplier, call the fire department.

C.   Use only your hand to turn the gas control manual valve. Never use tools. If the valve will not turn by hand, do not try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D.   Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

WARNING

Do not operate appliance with the glass front removed, cracked, or broken. Replacement of the glass should be done by a licensed or qualified service person.

Under no circumstances should any solid fuel (wood, coal, paper, cardboard, etc.) be used in this appliance.

Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

CAUTION

Clothing or other flammable material should not be placed on or near the appliance.

Young children should be carefully supervised 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 toddler, young children and other at risk individuals out of the room and away from hot surfaces.

OPERATING INSTRUCTIONS

1.   STOP! Read all the safety information above on this page.

2.   Press the wireless remote OFF button.

3.   Turn off all electric power to the appliance.

4.   This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

5.   Locate the manual valve installed by your qualified service technician.

6.   Turn the manual valve clockwise ⤵ to the OFF position.

7.   Wait five (5) minutes to clear out any gas. Then, smell for gas, including near the floor. If you smell gas, STOP! Follow 'B' in the safety information above. If you do not smell gas, go to the next step.

8.   Turn the manual valve counterclockwise ⤵ to the ON position.

9.   Turn on all electric power to the appliance.

10.   Press the wireless remote ON button.

11.   If the appliance will not operate, follow the instructions, "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

ON/OFF

OFF
ON
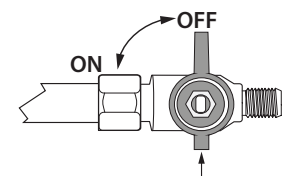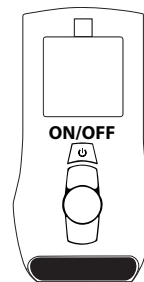
TO TURN OFF GAS TO APPLIANCE

1.   Press the wireless remote OFF button.

2.   Turn off all electric power to the appliance if service is to be performed.

3.   Locate the manual valve installed by your qualified service technician.

4.   Turn the manual valve clockwise ⤵ to OFF position.

NOTE

When this fireplace is initially lit, condensation will appear on the glass. This is normal in all gas fireplaces and will disappear after several minutes. A paint smell will occur during the first few hours of burning. It is recommended to leave the fan off during this period to help speed the paint curing process. This fireplace may produce noises of varying degree as it heats and cools due to metal expansion and contraction. This is normal, and does not affect the performance or longevity of the fireplace.

11.1 Setup Proflame 2 IFC Module

1. Locate the control module access switch on the left side of the fireplace.

2. Set the main ON/OFF rocker switch in the OFF position.

3. Install (3) AAA batteries (included in the components packet) in the remote control battery bay, located at the base of the remote.

4. Connect the IFC Module to an AC power supply.

11.2 Initialize the Control System

IMPORTANT: Remove all packaging and combustible material from the firebox before initializing the control system.

NOTE: Performing the next steps will initiate pilot start-up in manual mode, where the pilot igniter will spark repeatedly. The pilot will ignite if gas is supplied to the fireplace.

1. Locate the remote sync button on the control module access switch on the left side of the fireplace.

2. Press the remote sync button. The IFC module will BEEP (3) times and illuminate an amber LED. This indicates the receiver is ready to synchronize with the transmitter.

3. Within (5) seconds, push the ON/OFF button on the remote control. The receiver will BEEP (4) times to indicate the transmitter's command is accepted, and is set to the transmitter's particular code. The pilot will automatically ignite.

4. Press the remote control ON/OFF button again. The pilot will extinguish, confirming the remote control command. The control system is now initialized.

5. Set the main ON/OFF rocker switch to ON position for remote control operation of the main burner and fireplace features.

Figure 11.1, Control module access switch
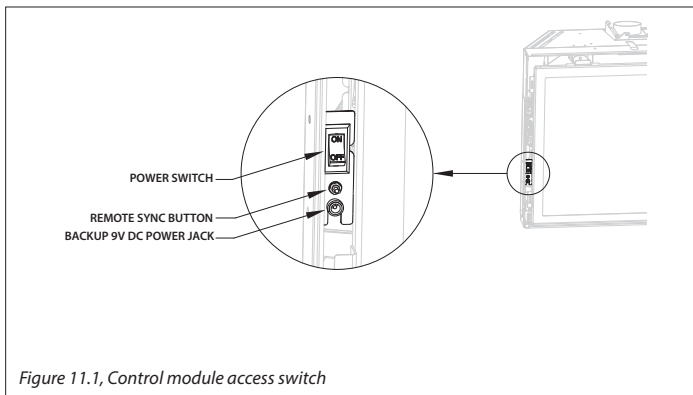
11.3 Reset the System for Manual Operation

1. Set the ON/OFF rocker switch to OFF position.

2. Press the remote sync button on the IFC module until it emits (3) beeps and an amber LED is illuminated.

3. Within (5) seconds, press the remote sync button again. This will close synchronization with the remote control. The pilot will automatically light.

- Turn the main burner ON by setting the ON/OFF switch in ON position. The main burner will only operate on HI.

- Turn the main burner OFF by setting the ON/OFF switch in the OFF position. The pilot will remain lit even if burner is turned off, provided CPI mode is turned on.

11.4 Automatic Safety Restart

- This system will execute an automatic turn OFF command for approximately (5) seconds within (24) hours of a continued pilot flame ignition to perform a safety check. This allows the system to verify correct safety functions.

- After the turn OFF sequence is completed, the IFC module will re-execute the latest command.

11.5 Backup Battery Operation

This electronic ignition system utilizes the supplied 110 VAC power when it is available for all functions of this system. If the AC power is interrupted during a power outage, plug in the battery pack (9V DC max, supplied with this fireplace) to the backup 9V DC power jack.

During the power outage, the appliance burner and flame height adjustment will function. The fan and accent light kit will not function.

See the figure below on how to plug in the battery backup into the inlet port.

Figure 11.2, Backup Battery and Inlet Port
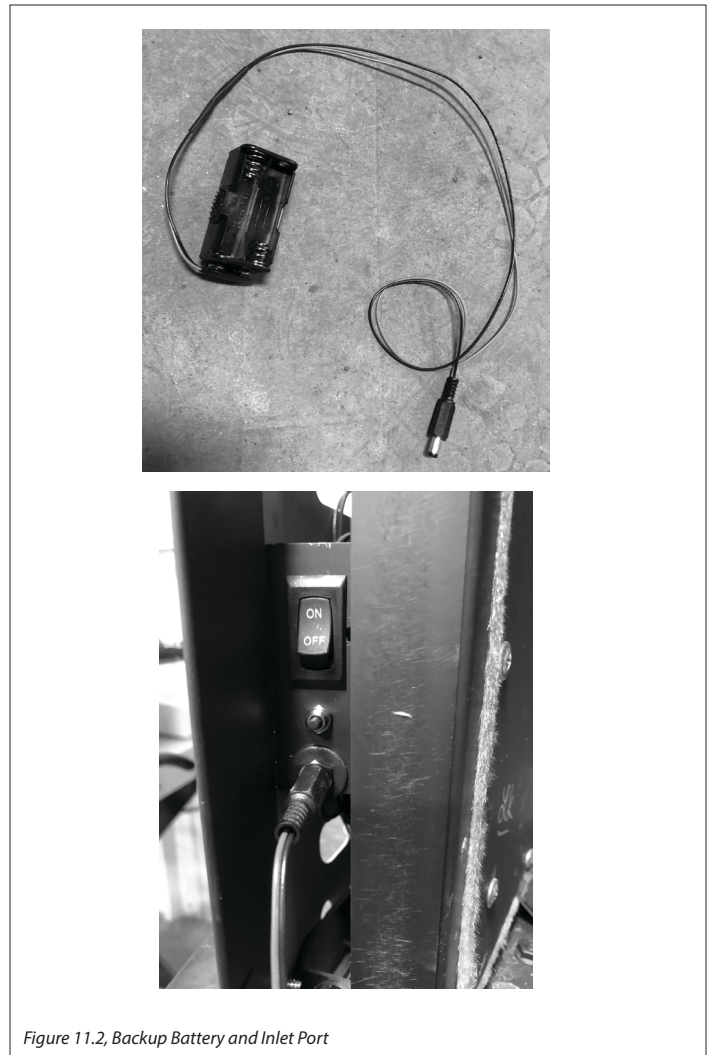
11.6 Control System 7 Day Timeout

- If you have your Proflame 2 system set to CPI (continuous pilot ignition) with **7 consecutive days** without ignition of the main burner, the pilot will turn off. This a standard safety feature of the SIT Proflame 2 system.
- Once you turn CPI on, the **7** day timer will start. If at any time during the following **7** days your main burner ignites, it will reset the timer back to **7** days.
- See Section 11.9.3 Pilot Ignition Selection (IPI/CPI) on page 34 for more information.

How to check if your system is set to CPI:
The LCD screen will display the snowflake icon.

To select the preferred pilot ignition feature,
1. With the system in the OFF position, press the mode key to index the CPI mode icon.
2. Press the up arrow key to activate CPI.
3. Press the down arrow key to return to IPI. A single 'beep' will confirm reception of the command.

To Turn ON the appliance:
1. With the system in the OFF position, press the remote control ON/OFF key to turn ON the appliance.
   A single 'beep' will emit from the IFC module to confirm reception of the command.
The LCD screen will display all active icons, and the IFC module will start the ignition sequence.

11.7 IFC Module Ignition Sequence

The IFC module will try (2) times for ignition, each lasting approximately (60) seconds, with approximately (35) seconds between each attempt.

1. With the system in OFF position, press the remote control ON/OFF key. Approximately (4) seconds after this key is depressed, the IFC module will generate sparks to the pilot hood.
2. First ignition attempt will generate sparks for (60) seconds.
3. If there is no flame ignition (rectification) within the (60) second time frame, the IFC module will stop generating sparks for approximately (35) seconds.
4. After (35) seconds of wait time, the IFC module will generate sparks for another (60) seconds for the second ignition attempt.
5. If there is no positive rectification after (60) seconds, the IFC module will go into a lock out. The red LED will blink (3) times, in intervals, until the system is reset.

11.7.1 Reset IFC Module after Lockout

11.7.1.1 ON/OFF Rocker Switch
1. Set the ON/OFF rocker switch to the OFF position.
2. After approximately (2) seconds, move the switch to the ON position. The ignition sequence will start again.

11.7.1.2 Remote Control ON/OFF Key
1. Press the remote control ON/OFF key to turn the system OFF.
2. After approximately (2) seconds, press the ON/OFF key again. The ignition sequence will start again.

11.7.1.3 Cycling Flame
1. Press the remote control down arrow key during flame adjustment mode to reduce the flame to OFF (indicated by OFF displayed on the LCD screen).

2. After approximately (2) seconds, press the up arrow key. The ignition sequence will start again.

11.8 Additional Diagnostic Information

Low Battery Condition (<4V) Remote Control:
- Battery Icon will appear on LCD remote control display.
- Replace batteries.

Low Battery Condition (<4V) Battery Backup:
- The red LED Indicator will blink (1) time in intervals.
- A low double-beep emits from the IFC control module when it receives an ON/OFF command from the remote control.
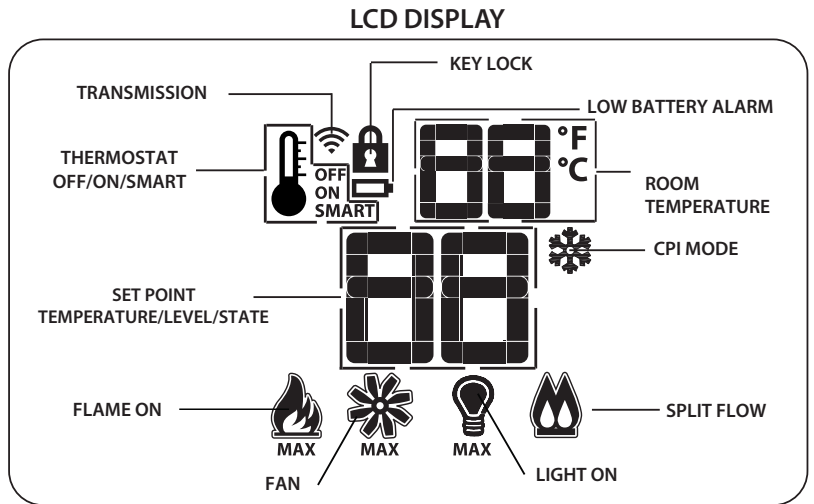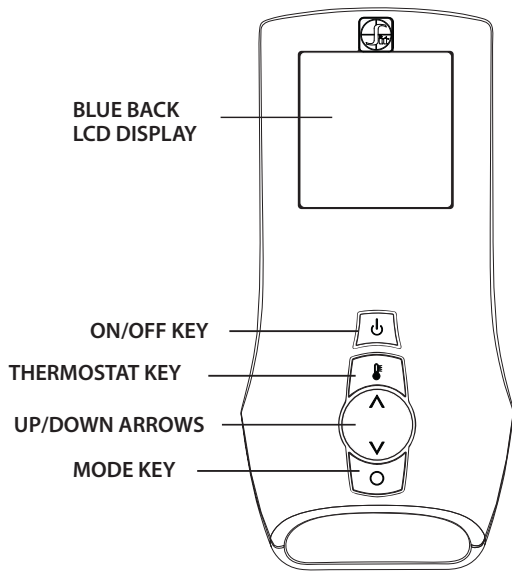- Replace Batteries.

Pilot Flame Error Condition:
- Red LED Indicator will blink (2) times in intervals. Contact your dealer if this occurs.

System Lock Out Condition:
- Red LED Indicator will blink (3) times in intervals.
- Verify gas is turned on.
- Verify sensor is not shorted.
- Follow "11.2 Initialize the Control System".

PROFLAME 2 TRANSMITTER

LCD DISPLAY

BLUE BACK
LCD DISPLAY

ON/OFF KEY

THERMOSTAT KEY

UP/DOWN ARROWS

MODE KEY

KEY LOCK

TRANSMISSION

LOW BATTERY ALARM

THERMOSTAT
OFF/ON/SMART

OFF
ON
SMART

°F
°C

ROOM
TEMPERATURE

CPI MODE

SET POINT
TEMPERATURE/LEVEL/STATE

FLAME ON

MAX   MAX   MAX

FAN

LIGHT ON

SPLIT FLOW

11.9 Remote Control Operation

11.9.1 Temperature Display

1. With the system in the OFF position, simultaneously press the thermostat key and the mode key to change degrees from °F to °C.

2. Visually check the LCD screen to verify either °F or °C is displayed on the right side of the room temperature display.
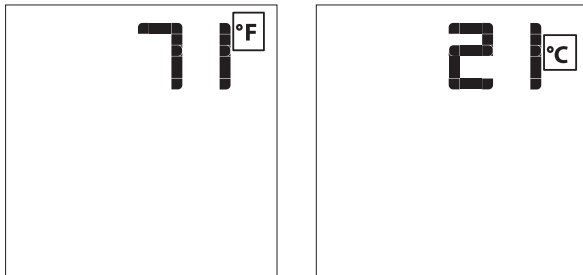
11.9.2 Key Lock

This function locks the keys to avoid unsupervised operation. Once activated, a lock icon will appear on the LCD screen.

1. Simultaneously press the mode key and the up arrow key to activate or deactivate this function.
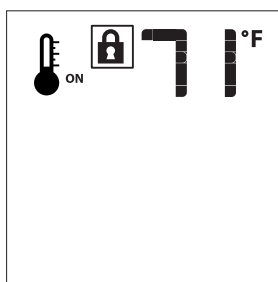
11.9.3 Pilot Ignition Selection (IPI/CPI)

This system has the option of a continuous (standing) pilot. This features allows the system to change from a spark-to-pilot system to the standing pilot option. The standing pilot will keep the firebox warm and establish a draft in the vent, which allows the main burner to ignite with less air-flow disruption.

When the system is OFF, the LCD screen will display the snowflake icon during the setup of either IPI or CPI mode. To select the preferred pilot ignition feature,

1. With the system in the OFF position, press the mode key to index the CPI mode icon.

2. Press the up arrow key to activate CPI.

3. Press the down arrow key to return to IPI. A single 'beep' will confirm reception of the command.

When the system is ON,

IPI mode: LCD screen will not display the snowflake icon

CPI mode: LCD screen will display the snowflake icon
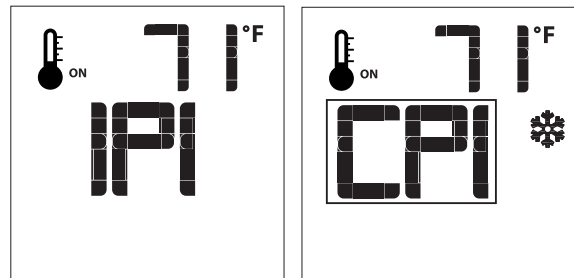
11.9.4 Turn ON the Appliance

1. With the system in the OFF position, press the remote control ON/OFF key to turn ON the appliance.
    A single 'beep' will emit from the IFC module to confirm reception of the command.

The LCD screen will display all active icons, and the IFC module will start the ignition sequence.

11.9.5 Turn OFF the appliance

1. With the system in the OFF position, press the remote control ON/OFF key to turn ON the appliance.
    A single 'beep' will emit from the IFC module to confirm reception of the command.

The LCD screen will only display the room temperature and its icon, and the IFC module will turn off the main burner.

11.9.6 Remote Control Flame Adjustment

This control system has (6) flame levels. If the smart thermostat operation is activated, then the manual adjustment of the flame height will be disabled.

1. Verify the system is in the ON position and the flame level is set at maximum.

2. Press the down arrow key once to reduce flame height by one level until the flame is turned off.

3. Press the up arrow key once to increase flame height by one step. If the up arrow key is pressed while the system is on, but the flame is off, the flame will ignite on HI.

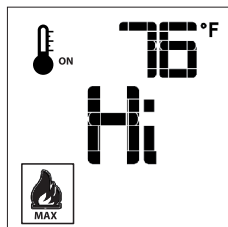4. A single 'beep' will confirm reception of the command.

Flame Off
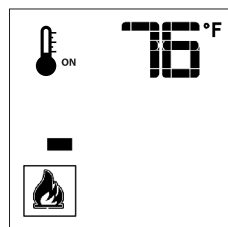
Flame Level 1
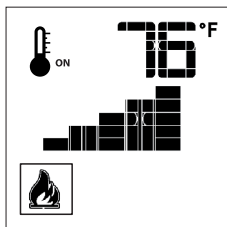
Flame Level 5

Flame Level Maximum

11.9.6.1 Deactivate Flame Modulation

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of **ONLY** the mode key.

6. Index over to the flame graphic on the LCD screen to edit. Use the up or down arrow key to choose 'ON' or 'OFF'.

11.9.7 Remote Control Thermostat Operation

11.9.7.1 Room Thermostat

The remote control can operate as a room thermostat. The thermostat can be set to a desired temperature to control a room's comfort level. To activate this function,

1. Press the thermostat key. The LCD screen will display a temperature bulb graphic, the room temperature and set temperature.

2. To adjust the set temperature, press the up or down arrow keys until the desired temperature is displayed on the LCD screen.

ROOM TEMPERATURE
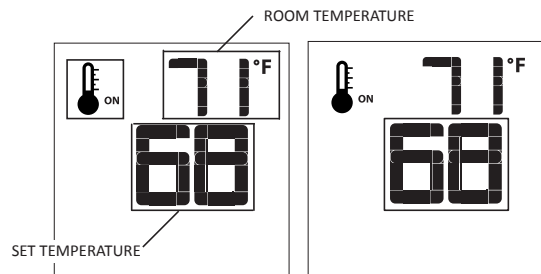
SET TEMPERATURE

11.9.7.2 Smart Thermostat

The smart thermostat function will adjust the flame height based on the set temperature and the actual room temperature. The smart thermostat function automatically adjusts the flame down when the room temperature reaches the set point. To activate this function,

1. Press the thermostat key until the 'SMART' appears on LCD screen on the right side of the temperature bulb graphic.

2. To adjust the set temperature, press the up or down arrow keys until the desired temperature is displayed on the LCD screen.
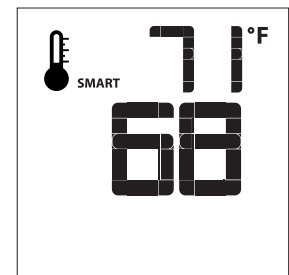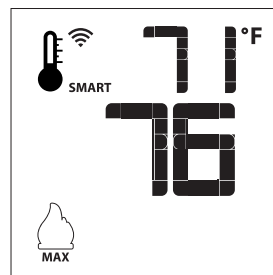
11.9.7.3 Deactivate Remote Control Thermostat Operation

The thermostat operation function can be deactivated. The remote control will still operate the main burner on and off, and function flame, fan, and light modulation. To deactivate this function,

1. Verify all (3) AAA batteries are installed in the remote control.

2. Remove (1) AAA battery.

1. While reinserting the battery, push and hold the thermostat key. The temperature bulb graphic will not be displayed on the LCD screen.

2. To reactivate remote thermostat operation, follow the same key sequence procedure above. The temperature bulb graphic will reappear on the LCD screen.
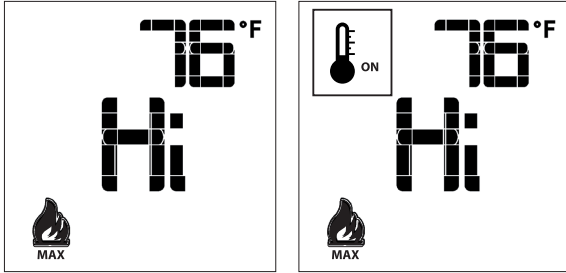
11.9.8 Split Flow Control

The secondary burner is controlled by the split flow. To activate this function,

1. Press the mode key to index to the split flow mode icon.

2. Press the up arrow key to activate the secondary burner.

3. Press the down arrow key to turn the secondary burner off. A single 'beep' will confirm the reception of the command.
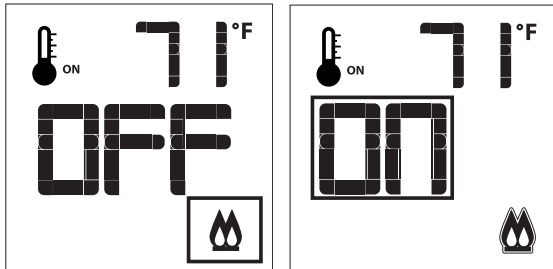
11.9.9 Fan Speed Control

Fan speed can be adjusted through (6) speeds. To activate this function,

1. Press the mode key to index to the fan control icon.

2. Press the up or down arrow keys to turn on, off, or to adjust fan speed.

Thermostat mode: Fan(s) have a (5) minute delay time when the fireplace is let. This allows time for heat to build in fireplace before fan operation. The fan will continue to operate for approximately (12) minutes after the fireplace has been turned off.

Manual mode: Fan(s) will operate at previous setting. There is no delay in start up or stop time.
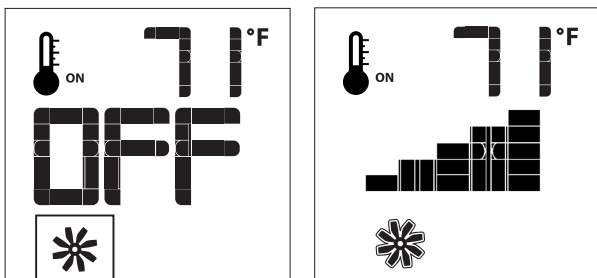
11.9.10 Accent Light Kit

The light intensity can be adjusted through (6) levels.

1. Press the mode key to index to the light icon.

2. Press the up or down arrow keys to adjust the intensity level.

3. A single 'beep' will confirm reception of the command.
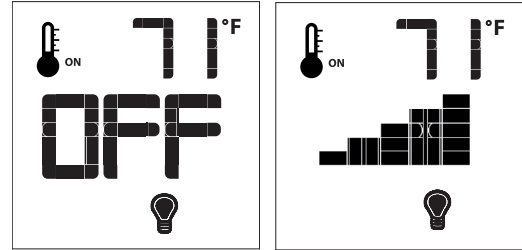
11.9.10.1 Deactivate Light Kit Modulation

1. Verify all (3) AAA batteries are installed in the remote control battery bay.

2. Remove (1) AAA battery.

3. Press and hold the on/off key and the mode key at the same time.

4. Reinsert (1) AAA battery.

5. While still holding the on/off key, let go of **ONLY** the mode key.

6. Index over to the bulb graphic on the LCD screen to edit. Use the up or down arrow key to choose 'SET' or 'CLR'.

11.9.11 Remote Control Low Battery Detection
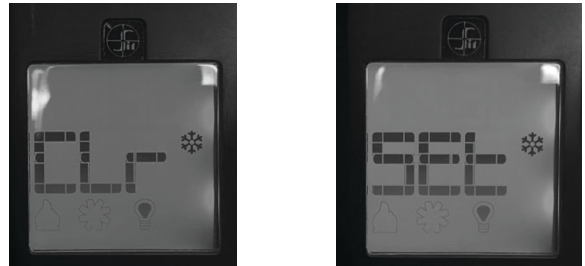
Remote control battery lifespan depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etcetera.

- When the remote control battery are low, a battery icon will appear on the LCD display before all battery power is lost.

- When the batteries are replaced, this icon will disappear.
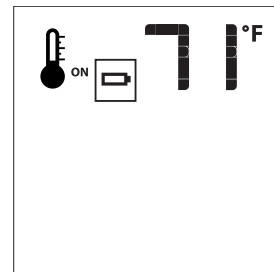
12.0 ADJUSTMENT

12.1 Pressure Testing

NOTE: The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of ½ psi (3.5 kPa).

IMPORTANT: Pressure check taps for manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked OUT measures outgoing pressure. The pressure tap marked IN measures incoming pressure.

12.1.1 Inlet Pressure Test

NOTE: Make sure to apply these incoming pressure test with all other gas appliances on, or at full capacity in the house for proper pressure reading.

IMPORTANT: If the inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure.

1. Loosen the inlet (IN) pressure tap by turning screw counter-clockwise. See (A) in Figure 12.1.
2. Attach manometer using a ¼ in (6mm) I.D. hose.
3. Light pilot and burner. Check pressure to ensure it is between the minimum and maximum recommended pressure settings.
4. Turn off burner and pilot.
5. Disconnect hose and tighten the inlet (IN) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.
6. Relight pilot and burner. Then reattach manometer to the inlet pressure tap (A) to verify the tap is completely sealed. Manometer should read no pressure.

12.1.2 Manifold Pressure Test

1. Light pilot.
2. Loosen manifold (OUT) pressure tap by turning screw counter-clockwise. See (B) in Figure 12.1.
3. Attach manometer to pressure tap using a ¼ in (6mm) I.D. hose.
4. Light burner. Check manometer reading.
5. Turn burner and pilot off.
6. Disconnect manometer hose and tighten the manifold (OUT) pressure tap by turning screw clockwise. Screw should be snug. Do not over tighten.
7. Attach the manometer to the manifold pressure tap (B) to verify it is completely sealed. The manometer should read no pressure when pilot and burner are on.
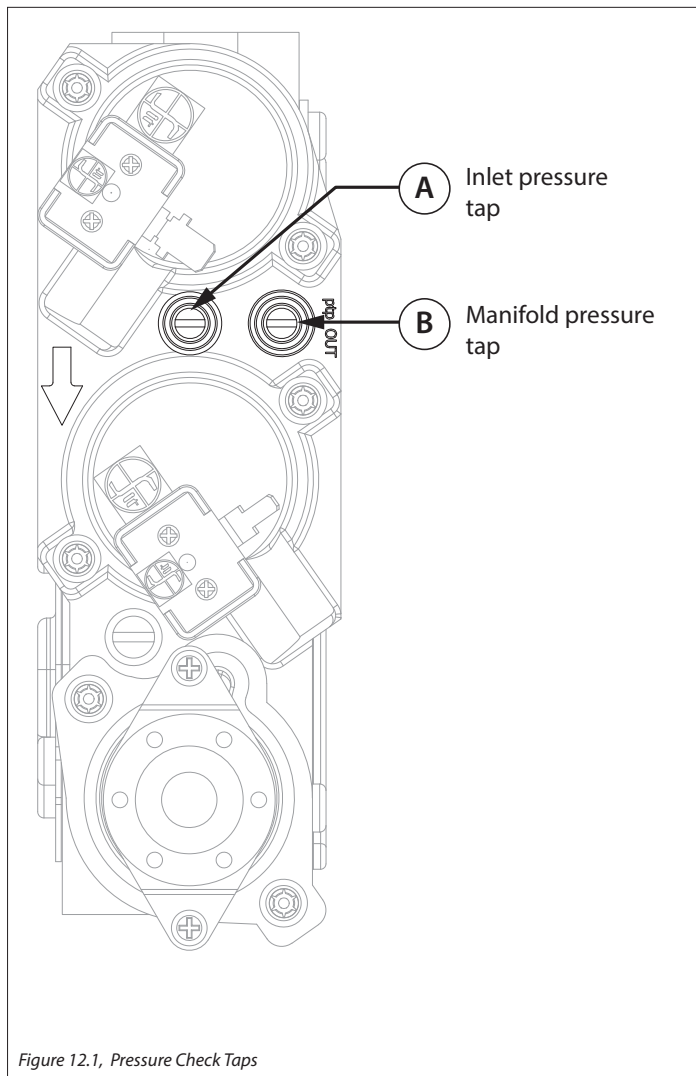
Figure 12.1, Pressure Check Taps

Table 12.1, Inlet Pressures		
Fuel	**Natural Gas**	**Propane**
Gas Supply	**Min - Max**	**Min - Max**
Inlet Pressure Tap (A)	5" - 10.5" WC (1.25 - 2.62 kPa)	12" - 13" WC (2.99 - 3.24 kPa)

Table 12.2, Manifold Pressure		
Fuel	**Natural Gas**	**Propane**
Gas Supply	**Low - High**	**Low - High**
Manifold Pressure Tap (B)	1.1" - 3.8" WC (.27 - .95 kPa)	2.9" - 11" WC (.72 - 2.74 kPa)

12.2 Burner Flame Adjustments

WARNING: To avoid property damage or personal injury, allow the fireplace ample time to cool before making any adjustments.

Burner flame appearance and characteristics are affected by altitude, fuel quality, venting configuration, and other factors. After installation, this appliance may need additional adjustments to achieve optimum flame appearance and visual aesthetics.

12.2.1 Burner Venturi

WARNING: VENTURI ADJUSTMENT MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN.

NOTE: Burner venturi air shutter settings have been factory set. Refer to Table 12.3.

When this appliance is first lit, the burner flames will appear blue. During the first 15 minutes of operation, flame appearance will gradually turn to the desired yellow appearance. If the flames remain blue, or become dark orange with evidence of sooting (black tips), adjustment of the air shutter opening may be necessary.

Regardless of venturi orientation, closing the air shutter will achieve a desired yellow flame, but may produce soot on the glass. Opening the air shutter will cause a short, blue flame that may lift off the burner.

Table 12.3, Factory Set Venturi Openings		
Fuel	**FRONT**	**BACK**
Natural Gas	1/16" (1.5mm) OPEN	1/16" (1.5mm) OPEN
Propane	3/8" (9.5mm) OPEN	3/8" (9.5mm) OPEN

12.2.1.1 Venturi Adjustment

NOTE: If soot is present on the glass, check log positioning before adjusting the venturi. Logs must not block burner ports.

1. Remove the safety barrier and glass frame assembly.
2. Remove refractory, ash panels, and media kit / log set.
3. Remove the log rack / ember media tray.
4. Remove airflow plate.
5. Loosen screws on venturis and adjust as necessary. Re-tighten screws.
6. Reinstall all components previously removed.
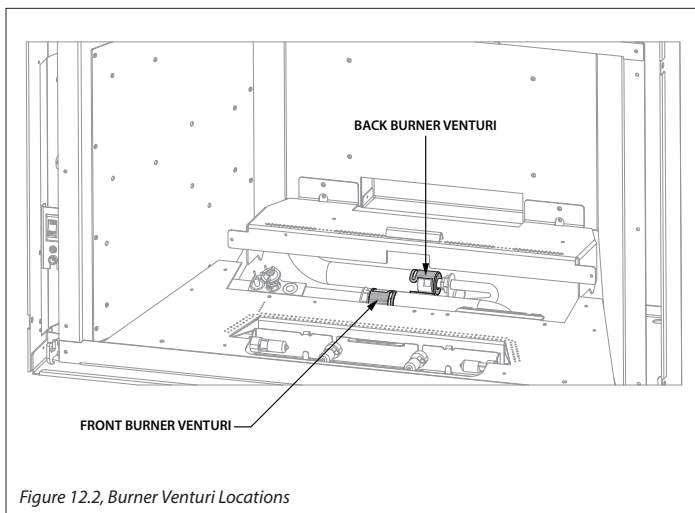
Figure 12.2, Burner Venturi Locations

IMPORTANT: Slight adjustments to the venturi opening will create dramatic results. Adjust at slight increments until desired look is achieved. Always burn the fireplace for at least 15 minutes, and allow the appliance ample time to cool before making any further adjustments.

Table 12.4, Venturi Adjustment Guidelines		
Flame Characteristic	**Cause**	**Solution**
Dark, orange flame with black tips	Venturi closed too far	Open venturi slightly
Short, blue flames	Venturi open too far	Close setting slightly
Lifting (ghosting) flames	Gas pressure too high Venturi closed too far	Check manometer settings Open venturi setting slightly

Ideal Flame Appearance

Lazy, yellow flames - no adjustment necessary

Dark, orange flames with black tips

Venturi(s) settings closed too far. Open venturi(s) slightly.

Short, blue flames

Venturi(s) open too far. Close venturi settings(s) slightly.

Lifting (ghosting) flames

Venturi settings(s) closed too far. Open venturi(s) slightly OR gas pressure too high - check manometer settings

Figure 12.3, Flame Characteristics

13.0 TROUBLESHOOTING

ATTENTION: Troubleshooting must be performed by a qualified technician.

Before proceeding with the steps in the following troubleshooting guide,

- Verify proper 120VAC power supply to the control module.
- Verify the control module battery pack and the remote control batteries are fresh and installed with correct polarity.

- Verify all connections between the wire harnesses and the system components are proper and positive.
- Verify the communication link is established between the remote control and the IFC module.
- Verify inlet pressure meets the recommended inlet pressure. If necessary, adjust line pressure regulator.

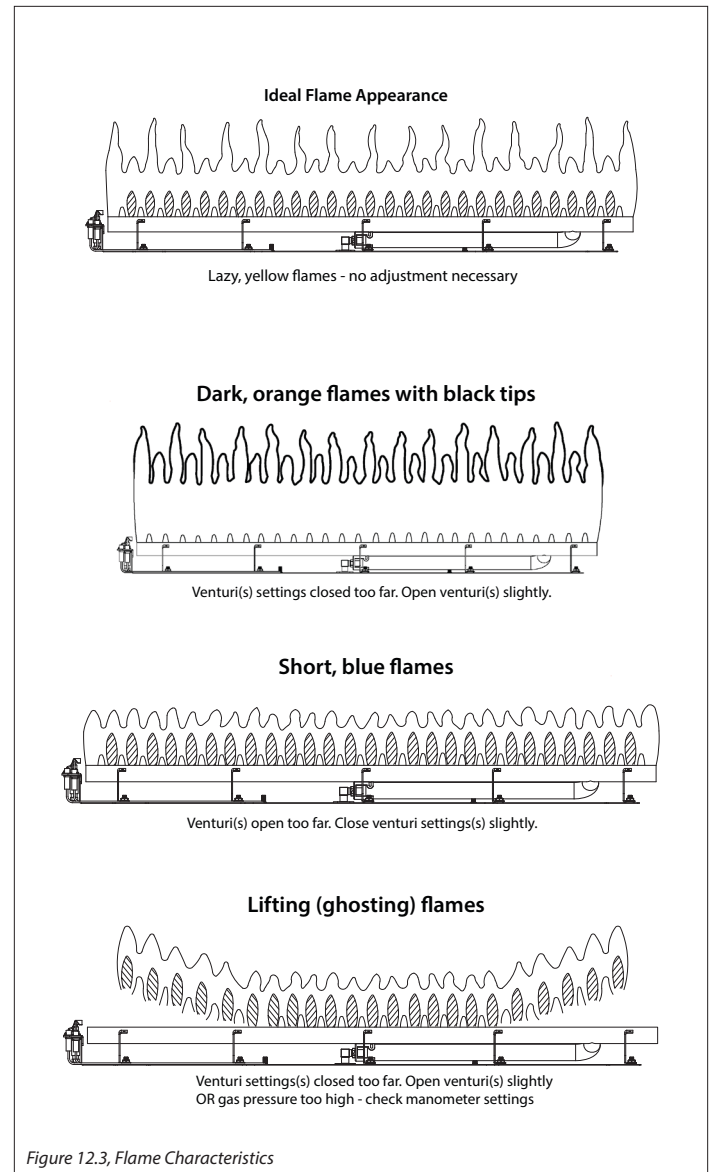| Issue	Cause	Solution
Pilot will not light	Electrical power interrupted or disconnected	Restore electrical power to appliance or use battery back-up.
	Wiring disconnection	Ensure batteries are fully charged if using battery back-up as power source. Use wiring schematic in this manual to determine that all wiring connections are secure and correct.
	Gas supply turned off	Check remote shut-off valves from the appliance. Usually there is a valve near the main gas line. There may be more than (1) valve between the appliance and main gas line.
Pilot will not stay lit	No propane in tank	Check propane tank. Refill if necessary.
	Low gas pressure	Consult a plumber or a gas supplier. Can be caused by situations such as a bent line, too narrow diameter or pipe, or a low line pressure.
	Pilot flame not making contact with the flame rectification sensor on the pilot assembly	Verify the pilot flame envelopes the top of the flame sensor and extends far enough onto burner for ignition. To adjust pilot flame, turn pilot adjustment screw on the gas valve clockwise to decrease flame, and counterclockwise to increase flame.
	Pilot adjustment screw not sealed	Seal pilot adjustment screw. Do not over-tighten.
Pilot flame always on, or will not extinguish	Control system set to CPI mode	Set control system to IPI mode.
Main burner flame will not light	ON/OFF rocker switch in OFF position	Switch rocker switch to ON position.
	Gas supply turned off	Check for multiple shut-offs in the supply line. Verify gas supply is turned on.
	Low gas supply	Consult with plumber or gas supplier. Check propane tank. Refill if necessary.
	Wiring disconnection or improper wiring	Check for faulty or incorrect wiring.
	Plugged main burner orifice	Remove blockage.
	Pilot flame	Verify the pilot flame is properly directed to ignite burner. See pilot flame troubleshooting above.
	Remote control not working properly	Replace batteries.
	No call for heat	Verify remote control is powered ON and thermostat operation is turned OFF.

Issue	Cause	Solution
Pilot and burner extinguish while in operation	No propane in tank	Check propane tank. Refill if necessary.
	Incorrect glass assembly installation	Refer to section 9.1 Glass Assembly on page 23.
	Incorrect vent cap installation	Adjust if necessary.
	Vent cap blockage	Remove debris if necessary.
	Improper pitch on horizontal venting	¼" (6mm) rise per foot (30cm) is required on horizontal venting
	Exhaust vent pipe leaking exhaust gases back into firebox	Check for leaks and repair if necessary.
Soot appears on glass	Improper media placement	Refer to Section 9.4 on page 25
	Improper venturi setting	Venturi air shutter may need to be opened slightly to allow more air into the gas mix. Refer to section 12.2.1 Burner Venturi on page 35.
	Incorrect vent cap installation	Adjust if necessary.
	Vent cap blockage	Remove debris if necessary.
Flame burns blue and lifts off burner	Improper venturi setting	Venturi air shutter may need to be opened slightly to allow more air into the gas mix. Refer to section 12.2.1 Burner Venturi on page 35.
	Incorrect vent cap installation	Adjust if necessary.
	Blockage or leakage of the vent system	Check the vent pipes for leaks, and the vent cap for debris. Repair the vent pipes or remove debris from vent cap, if necessary.
No reaction to command	Battery back batteries or remote control batteries low	Replace batteries.
	No communication between remote control and IFC module	Reprogram remote control to IFC module.
	A maximum number of failed ignitions or flame restorations has been reached	Reset IFC module.

Hussong Mfg. Co., Inc. • Kozy Heat Fireplaces

14.0 MAINTENANCE

ATTENTION: Installation and repair should only done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean. Use a vacuum to clean all components.

WARNING: The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

14.1 Firebox

Performed by: Qualified Service Person

Frequency: Annually

Action:

* Vacuum and clean any debris in the firebox that is not supposed to be there.

* Inspect and operate the bottom latch assembly. Verify the assembly is free from obstruction to operate. The handles must have spring tension but be able to move forward freely.

14.2 Fan

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

Performed by: Qualified Service Person

Frequency: Every 6 months

Action:

* Disconnect the fan from electrical current and vacuum.

* The bearings are sealed and require no oiling.

14.3 Vent System

Performed by: Qualified Service Person

Frequency: Annually

Action:

* Examination of the vent system is required.

* The flow of combustion and ventilation air must not be obstructed.

14.4 Glass Assembly

CAUTION: Do not operate appliance with the glass assembly removed, cracked, or broken. Use protective gloves to handle any broken or damaged glass assembly components.

WARNING: Do not use substitute materials.

WARNING: Avoid striking or slamming glass assembly. Avoid abrasive cleaner. DO NOT clean glass while it is hot.

IMPORTANT: Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

Performed by: Homeowner

Frequency: Annually

Action:

* Prepare a work area large enough to accommodate the glass assembly on a flat, stable surface.

* Remove safety screen and glass frame assembly.

* Clean glass window with a suitable fireplace glass cleaner using a soft cloth. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.

* Reinstall glass assembly and safety screen. Do not operate fireplace without safety screen.

Performed by: Qualified Service Person

Frequency: Annually

Action:

* Clean glass window with a suitable fireplace glass cleaner using a soft cloth. Abrasive cleaners must not be used. Be careful not to scratch the glass when cleaning.

* Inspect the glass for cracks, scratches, and nicks.

* Verify the glass assembly is properly intact and not damaged.

* Replace the glass and the assembly #701-023T as necessary.

* Only Hussong Mfg. Co., Inc. will supply the replacement of glass assembly as a complete unit.

14.5 Burner and Pilot System

The burner assembly may be removed for easier access to the control compartment. See Section 9.5 for instructions.

Verify gas supply is turned on and filled. Consult with plumber or gas supplier as necessary.

Performed by: Qualified Service Person

Frequency: Annually

Action:

• Vacuum all components of the burner system.

• Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.

• Inspect the operation of the flame safety system Pilot or Flame rectification device. Visually check pilot light when in operation.

• Inspect and ensure the lighting of the main burner occurs within (4) seconds of the main gas valve opening. Check for faulty or incorrect wiring and correct or replace as necessary. Inspect primary air openings (burner ports) for blockage, especially near the pilot.

• Visually check burner flame pattern when in operation. Flames should be steady, not lifting or floating.

• Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shutoff in no more than (30) seconds.

**ELECTRONIC IGNITION SYSTEM
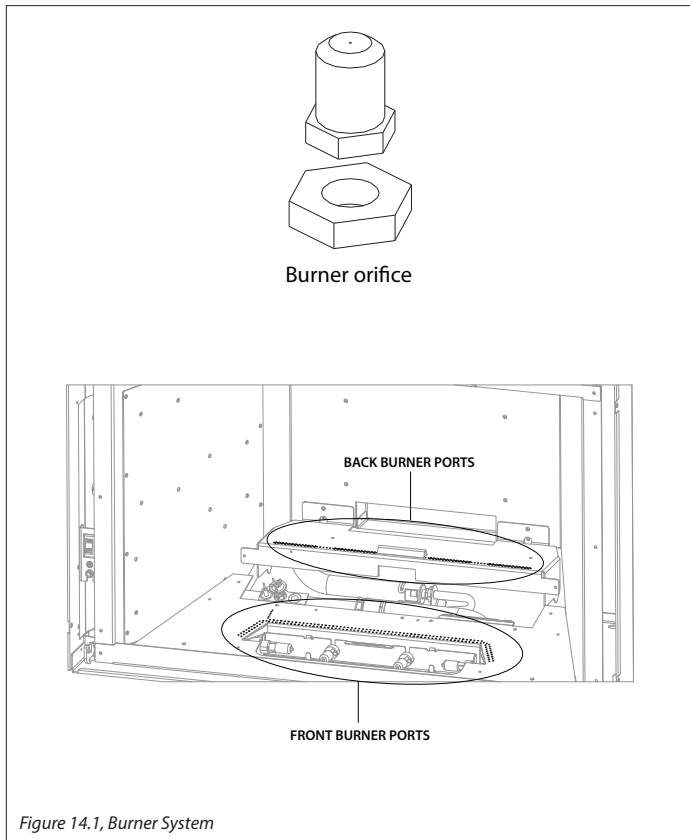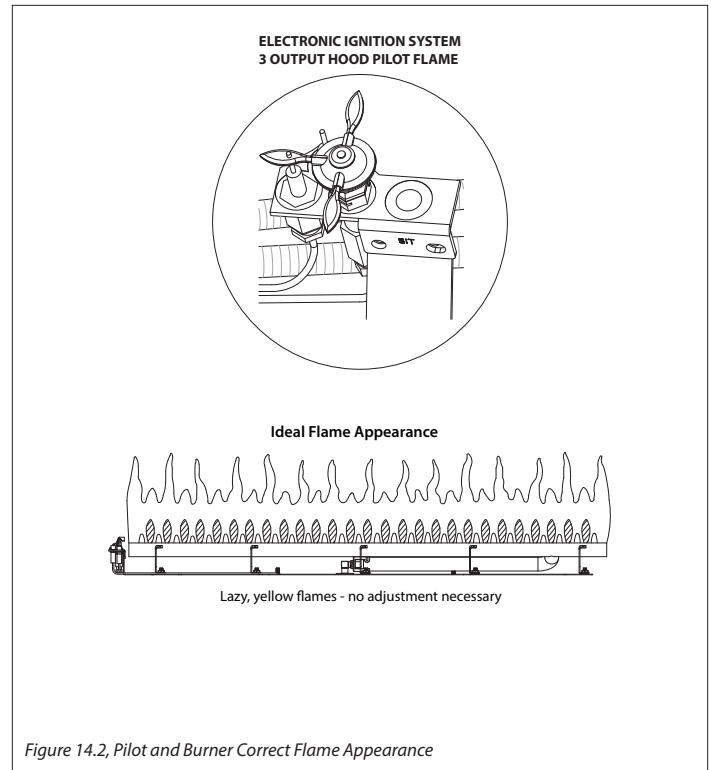3 OUTPUT HOOD PILOT FLAME**

Ideal Flame Appearance

Lazy, yellow flames - no adjustment necessary

Figure 14.2, Pilot and Burner Correct Flame Appearance

Burner orifice

BACK BURNER PORTS

FRONT BURNER PORTS

Figure 14.1, Burner System

15.0 REPLACEMENT PARTS LIST

Replacement parts are available through your local dealer. Contact your local dealer for availability and pricing.

The following warning is for replacement parts for this appliance.

⚠️ **WARNING:** This product can expose you to chemicals including Lead, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

CONTROL BOARD AND PARTS

Control Board - Natural Gas	RT29-160-7	Pilot Orifice - Natural Gas #62	700-166
Control Board - Propane	RT29-161-7	Pilot Orifice - Propane #35	700-168
S.I.T. IPI Gas Valve - Natural Gas	700-567	Valve Step Motor - Natural Gas	700-504
S.I.T. IPI Gas Valve - Propane	700-567-1	Valve Step Motor - Propane	700-504-1
Proflame 2 IFC Board	700-652-7	15" Flexible Gas Line - Black	700-227F
IFC Wire Harness Assembly	700-653	Flexible Gas Line - Valve to Burner Connection	700-213B
Proflame 2 IFC External Antenna	700-ANT	Natural Gas Burner Orifice #48 FRONT	700-248
Pilot Assembly - Natural Gas	700-551R	Natural Gas Burner Orifice #52 BACK	700-252
Pilot Assembly - Propane	700-551R-1	Propane Burner Orifice #56 FRONT	700-256
S.I.T. IPI Pilot Hood	700-098R	Propane Burner Orifice #58 BACK	700-258
540 Split Flow	700-604	Conversion Kit - Natural Gas	NCK-RT29-S
Backup Battery Extension	700-424	Conversion Kit - Propane	LCK-RT29-S
9V to Barrel Jack Adapter	700-423	Front Burner	RT29-350
Program Button Extension	700-422	Back Burner	RT29-351
Transmitter (Remote Control) with Split flow	700-508	Burner Air Flow Plate	RT29-352

GLASS AND GLASS PARTS

Glass with Gasket 26.875" x 17.25"	701-023T
Valance	RT29-005
Glass Gasket	900-006

LIGHT KIT

Light Kit	RT29-LKT
20W 120V Halogen Bulb	600-676
1.5 lb (0.68kg) Ember Panel Crushed Glass	600-697

SAFETY BARRIERS

Arched Mission Screen Front	RT29A-MSF
Arched Full Prairie Door Screen Front	RT29A-FPDSF
Prairie Screen Front	RT29-PSF
Rectangular Screen Front	RT29-RSF
Forged Screen Front	RT29-FSF

FAN KIT

Fan Kit	RT29-028

ADDITIONAL COMPONENTS

Manual Gas Shut-off Valve	700-203
Glass Latch Tool	RT29-GLT

SHROUDS

Blank Shroud (4 pc.)	RT29-004
4 sided blank shroud (4 pack)	RT29-008
25" x 38" shroud (1 pc.)	RT29-2538
27.5" x 42" shroud (1 pc.)	RT29-27542
30" x 44" shroud (1 pc.)	RT29-3044
Custom shroud	RT29-CUS
Custom arched shroud	RT29-ACUS

LOG SET

Birchwood Log Set	RT29B-501
Ash Panel	RT29-900E-LOG
Log #1	RT29-BW1
Log #2	RT29-BW2
Log #3	RT29-BW3
Log #4	RT29-BW4
Log #5	RT29-BW5
Log #6	RT29-BW6
Log #7	RT29-BW7
Log #8	RT29-BW8
Rock Wool Embers	900-REMB

RVT-29-BW
Hussong Manufacturing Co., Inc.
P.O. Box 577
204 Industrial Park Drive
Lakefield, MN 56150-0577
USA

LIMITED LIFETIME WARRANTY

Warranty Coverage

Hussong Manufacturing Company, Inc. (Hussong Mfg.) warrants this Kozy Heat gas appliance from the date of purchase to the original purchaser, that it is free of defects in materials and workmanship at the time of manufacture. Registering your fireplace warranty does not require any documents to be sent in to Hussong Mfg. Please retain your proof of purchase reflecting the date of purchase along with the serial number and model of your fireplace for any future warranty claims.

If a defect is noted within the warranty period, the customer should contact their authorized dealer for service within 30 days.

30 Days: Parts & Labor*

- Paint
- Light bulbs
- Gasket material
- Glass media and media dam

Year 1: Parts & Labor*

- All parts and material except the items listed in the 30 day warranty and any exclusions or limitations that may apply.

*Hussong Mfg. will issue labor reimbursement to an authorized dealer only. Hussong Mfg. will not be liable for charges occurred as a result of any service performed by a non-authorized service provider, without pre-authorization.

Years 2 through Lifetime: Parts Only

- Firebox
- Heat Exchanger
- Logs
- Burner tube or pan
- Outer shell
- Heat shield(s)
- Front Viewing Glass (thermal shock only)
- Refractory Firebox liner (excluding enamel and glass panels)

EXCLUSIONS AND LIMITATIONS

1. This appliance must be installed by a licensed, authorized service technician or contractor. It must be installed, operated and maintained at all times in accordance with the instructions in the owner's manual or the warranty is void.
2. This warranty is nontransferable and is made to the original purchaser only.
3. This warranty excludes standard wear and tear of the appliance which is considered normal usage over time.
4. Discoloration and some minor expansion, contraction or movement of certain parts, resulting in noise, is normal and not a defect.
5. Warranty is automatically voided if the appliance's serial number and/or testing label is removed or if the appliance is altered or tampered with in any way.
6. Warranty is void if the appliance is subject to submersion in water or prolonged periods of dampness or condensation. Any damage to any part of the appliance due to water or weather damage which is the result of, but not limited to, improper chimney/venting installation will also render this warranty void.
7. This warranty does not cover installation and operational related problems such as environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures caused by any mechanical systems.
8. Chimney components and other Non-Hussong Mfg. accessories used in conjunction with the installation of this appliance are not covered under this warranty.
9. Damage to plated surfaces or accessories, if applicable, caused by scratches, fingerprints, melted items or other external sources left on the surfaces from the use of cleaners is not covered under this warranty.
10. It is expressly agreed and understood that this warranty is Hussong Mfg.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Mfg. is free of liability for any damages caused by this appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply. Hussong Mfg. shall not be held to implied warranties and this warranty shall replace all previous warranties.
11. This limited lifetime warranty is the only warranty supplied by Hussong Mfg. Any warranties extended to the purchaser by the dealer/distributor, whether expressed or implied, are hereby disclaimed and the purchaser's recourse is expressly limited to the warranties set forth herein.
12. Any part 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.
13. Any replacement part repaired after the warranty period will include a 90 day parts coverage
14. Hussong Mfg. may require the defective part to be returned using a pre-authorized RGA number or a photo of the defective component. Failure to provide either can result in a denied claim.
15. This warranty does not cover the appliances ability to heat a desired space, as there are many factors that can impact the heating performance in each home. Consideration should be implied to the appliance's location, room size, home design, environmental conditions, insulation, and tightness of the home.
16. Hussong Mfg. reserves the right to make changes at any time, without notice, in design, material, specifications, and prices. Hussong Mfg. reserves the right to discontinue models and products.

July 2018