

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 5/23/2023

Return Request: 6/2/2023 Project: Farm Credit Office Supplier: Godfry Black

Submittal: Fire Place & Fire Pit **Submittal Number:** 22 00 00-03

Drawing # and Installation: Plumbing Drawings

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Notes:			

CSUSA PROJECT NO. 23-1013

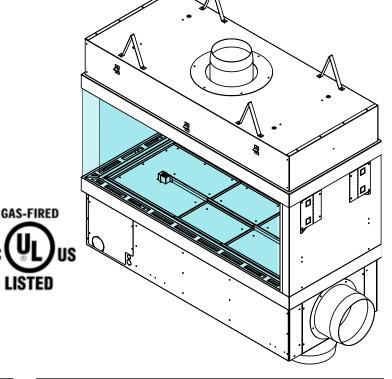
jon@comfortar.com



stellar.heatnglo.com

Custom Fireplace Program
Co-linear Direct Vent
Powervented Gas Fireplaces

ENLIGHT COLLECTION - PIER
Installation and Operating Manual
NG & Propane



DO NOT DISCARD

Installer: Leave this manual with the appliance. Consumer: Retain this manual for future reference.

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

 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.
- 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.





HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.



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

Stellar by Heat & Glo, a division of Hearth & Home Technologies® - 22160 Cedar Avenue Suite 200, Lakeville, MN 55044 - (952) 224 - 4072

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

Congratulations on selecting a Stellar by Heat & Glo gas fireplace.

You've selected a model within the Enlight Collection that is crafted to elevate even the most unique spaces. Each of our Enlight Collection's seven confirations sets the stage with the most robust flames in its class, with commercial grade components providing the utmost in safety and reliability.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual.

Pay special attention to all cautions and warnings.

DO NOT DISCARD.

This owner's manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

-	Installaion Team: at the time of install, please record the following pertinent information about the fireplace for the homeowners reference:						
	Model Name:						
	Serial Number: Date Installed:						
	Dealer Purchased From:						
	Dealer City/State: Dealer Phone:						
	Notes:						

If your model number has not been filled out above, please contact your dealer the fireplace purchased through directly for assistance identifying your model number by the serial number.



stellar.heatnglo.com

Stellar by Heat&Glo, a division of Hearth & Home Technologies, Inc.
22160 Cedar Avenue S.
Lakeville, MN 55044
(P) 952-224-4072
(E) StellarInfo@hearthnhome.com

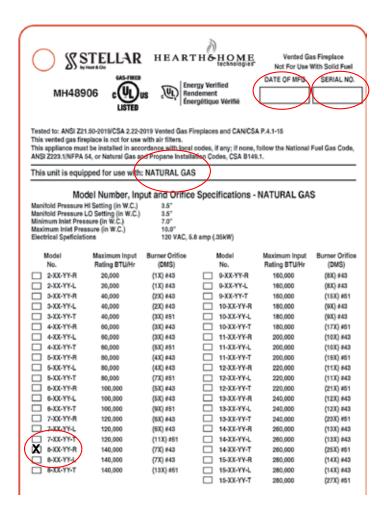
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UL RATING PLATE LOCATION & MODEL NUMBER IDENTIFICATION

The rating plate is used for multiple designs and multiple collections, and custom fireplaces.

The generic nomenclature listed on the rating plate will not identically match the model of Enlight fireplace you have.

The rating plate must stay with the fireplace and is located below the burner in an area that will only be reachable while servicing.



→ MODEL NUMBER IDENTIFICATION

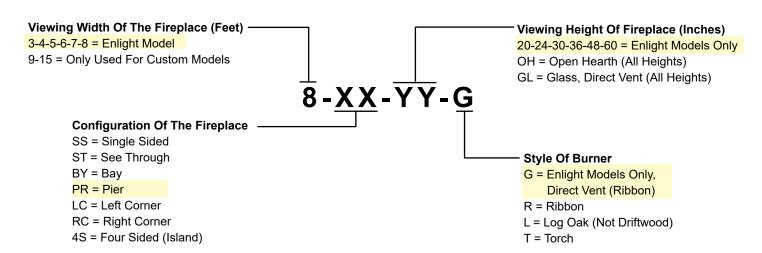


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→ = Contains New Or Updated Information

1 - SAFETY INFORMATION

This fireplace complies with ANSI Z21.50-2019/CSA 2.22-2019 Vented Gas Fireplaces and CAN/CSA P.4.1-15.

Installation must conform with local building codes or in the absence of local building codes,
with the National Fuel Gas Code, ANSIZ223.1/NFPA 54 - Current Edition, or the Natural or Propane Installation Code, CSAB149.1

A. SAFETY ICON DESIGNATIONS

Various safety icons appear throughout this installation manual. Please familiarize yourself with the icons making sure you understand the serious consequences that may occur if ignored or of handling the products inappropriately.



IMPORTANT NOTE

This indicates additional instructions that you should consider during the installation.



DO NOT

This indicates something that you must never do.



RISK OF FIRE

This designates a danger of risk of fire or damage to property.



HOT GLASS WARNING

This indicates danger of serious bodily injury or property damage if glass is handled while still hot.



CAUTION

This indicates danger of serious bodily injury or property damage



STOP!

This indicates notes that may include reviewing warnings on other pages throughout the manual

B. IMPORTANT SAFETY CONSIDERATIONS

- Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. When drawing room air for combustion more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
- 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 toddlers, young children and
 other at risk individuals out of the room and away from hot
 surfaces.
- Clothing or other flammable material should not be place on or near the appliance.
- Adequate accessibility clearances for servicing and proper operation must be maintained.
- This appliance must not share or be connected to a chimney flue serving any other appliance.
- Keep area around the appliance clear of combustible materials, gasoline and other flammable vapor and liquids.
- The flow of combustion and ventilation air must not be obstructed

- Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.
- The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service technician.
- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this appliance with the glass/frame assembly removed, cracked or broken. Replacement of the glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass assembly.
- Keep burner and control compartment clean.
- 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.
- DANGER: <u>Under no circumstances should any solid fuel</u> (wood, coal, paper or cardboard etc.) be used in this appliance.
- STATE OF CA WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm.

For more information go to: www.P65Warnings.ca.gov.

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2 - COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS



NOTE: 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:

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.

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.

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 (1/2) in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

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.

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.

MANUFACTURES REQUIREMENTS 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.

MANUFACTURES REQUIREMENTS 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.

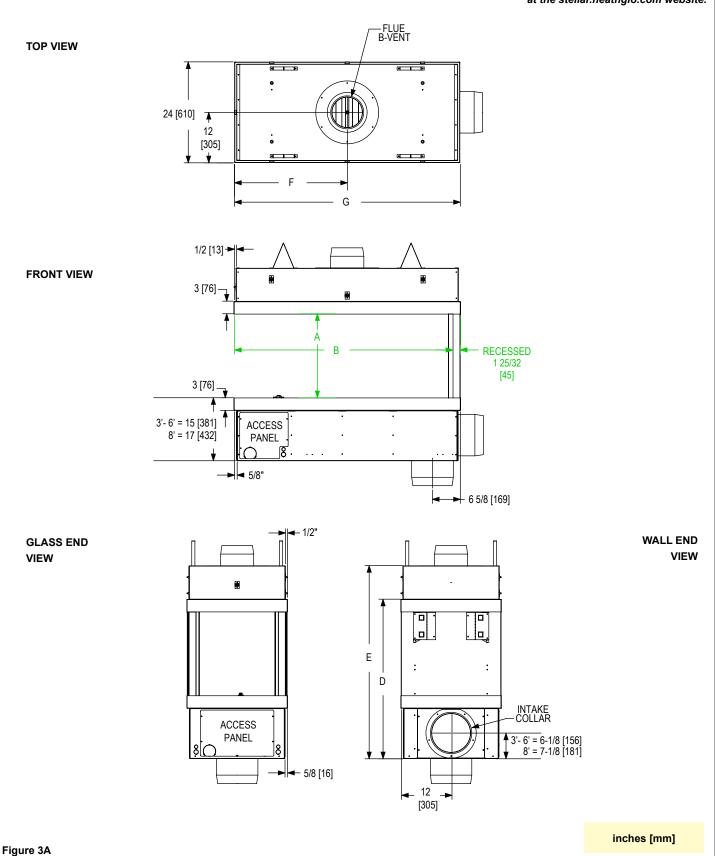
A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

	B-VENT	AIR INTAKE	Finishing Width - Front	Finishing Height	Finishing Width-End	Height To Trim Top	Overall Height	Center Of Vent	Overall Width	Unit Weight
	The dim	ensions i	n green are the allo	wable finishin	g width and heigh	t required to	fit the glass in	nto the fireplace; r	nust not overlap o	nto glass.
MODEL#	Ø	Ø	А	В	С	D	Е	F	G -	►LBS [KG]
3-PR-20-G	8"	10"	39-31/32 [1,015]	20 [508]	NA	38 [1,067]	46 [1,168]	20-7/8 [530]	41-3/4 [1,065]	371 [168]
4-PR-20-G	8"	10"	51-31/32 [1,320]	20 [508]	NA	38 [1,067]	46 [1,168]	26-7/8 [683]	53-3/4 [1,365]	453 [205]
5-PR-20-G	8"	10"	63-31/32 [1,625]	20 [508]	NA	38 [1,067]	46 [1,168]	32-7/8 [835]	65-3/4 1,670]	534 [242]
6-PR-20-G	10"	10"	75-31/32 [1,930]	20 [508]	NA	38 [1,067]	46 [1,168]	38-7/8 [987]	77-3/4 [1,975]	619 [281]
7-PR-20-G	10"	10"	87-31/32 [2,234]	20 [508]	NA	38 [1,067]	46 [1,168]	44-7/8 [1,140]	89-3/4 [2,280]	700 [318]
8-PR-20-G	10"	12"	99-22/23 [2,539]	20 [508]	NA	40 [1,016]	52 [1,321]	50-7/8 [1,292]	101-3/4 [2,584]	821 [372]
3-PR-24-G	8"	10"	39-31/32 [1,015]	24 [610]	NA	42 [1,067]	50 [1,270]	20-7/8 [530]	41-3/4 [1,065]	394 [179]
4-PR-24-G	8"	10"	51-31/32 [1,320]	24 [610]	NA	42 [1,067]	50 [1,270]	26-7/8 [683]	53-3/4 [1,365]	486 [220]
5-PR-24-G	8"	10"	63-31/32 [1,625]	24 [610]	NA	42 [1,067]	50 [1,270]	32-7/8 [835]	65-3/4 [1,670]	572 [260]
6-PR-24-G	10"	10"	75-31/32 [1,930]	24 [610]	NA	42 [1,067]	50 [1,270]	38-7/8 [987]	77-3/4 [1,975]	660 [300]
7-PR-24-G	10"	10"	87-31/32 [2,234]	24 [610]	NA	42 [1,067]	50 [1,270]	44-7/8 [1,140]	89-3/4 [2,280]	745 [338]
8-PR-24-G	10"	12"	99-22/23 [2,539]	24 [610]	NA	44 [1,118]	56 [1,422]	50-7/8 [1,292]	101-3/4 [2,584]	866 [393]
3-PR-30-G	8"	10"	39-31/32 [1,015]	30 [762]	NA	48 [1,219]	56 [1,422]	20-7/8 [530]	41-3/4 [1,065]	427 [194]
4-PR-30-G	8"	10"	51-31/32 [1,320]	30 [762]	NA	48 [1,219]	56 [1,422]	26-7/8 [683]	53-3/4 [1,365]	521 [236]
5-PR-30-G	8"	10"	63-31/32 [1,625]	30 [762]	NA	48 [1,219]	56 [1,422]	32-7/8 [835]	65-3/4 [1,670]	615 [279]
6-PR-30-G	10"	10"	75-31/32 [1,930]	30 [762]	NA	48 [1,219]	56 [1,422]	38-7/8 [987]	77-3/4 [1,975]	710 [322]
7-PR-30-G	10"	10"	87-31/32 [2,234]	30 [762]	NA	48 [1,219]	56 [1,422]	44-7/8 [1,140]	89-3/4 [2,280]	802 [364]
8-PR-30-G	10"	12"	99-22/23 [2,539]	30 [762]	NA	50 [1,270]	62 [1,574]	50-7/8 [1,292]	101-3/4 [2,584]	933 [423]
3-PR-36-G	8"	10"	39-31/32 [1,015]	36 [914]	NA	54 [1,372]	62 [1,575]	20-7/8 [530]	41-3/4 [1,065]	461 [210]
4-PR-36-G	8"	10"	51-31/32 [1,320]	36 [914]	NA	54 [1,372]	62 [1,575]	26-7/8 [683]	53-3/4 [1,365]	570 [259]
5-PR-36-G	8"	10"	63-31/32 [1,625]	36 [914]	NA	54 [1,372]	62 [1,575]	32-7/8 [835]	65-3/4 [1,670]	670 [304]
6-PR-36-G	10"	10"	75-31/32 [1,930]	36 [914]	NA	54 [1,372]	62 [1,575]	38-7/8 [987]	77-3/4 [1,975]	771 [350]
7-PR-36-G	10"	10"	87-31/32 [2,234]	36 [914]	NA	54 [1,372]	62 [1,575]	44-7/8 [1,140]	89-3/4 [2,280]	870 [395]
8-PR-36-G	10"	12"	99-22/23 [2,539]	36 [914]	NA	56 [1,422]	68 [1,727]	50-7/8 [1,292]	101-3/4 [2,584]	1,002 [455]
3-PR-48-G	8"	10"	39-31/32 [1,015]	48 [1,219]	NA	66 [1,676]	74 [1,880]	20-7/8 [530]	41-3/4 [1,065]	530 [240]
4-PR-48-G	8"	10"	51-31/32 [1,320]	48 [1,219]	NA	66 [1,676]	74 [1,880]	26-7/8 [683]	53-3/4 [1,365]	643 [292]
5-PR-48-G	8"	10"	63-31/32 [1,625]	48 [1,219]	NA	66 [1,676]	74 [1,880]	32-7/8 [835]	65-3/4 [1,670]	755 [343]
6-PR-48-G	10"	10"	75-31/32 [1,930]	48 [1,219]	NA	66 [1,676]	74 [1,880]	38-7/8 [987]	77-3/4 [1,975]	871 [395]
7-PR-48-G	10"	10"	87-31/32 [2,234]	48 [1,219]	NA	66 [1,676]	74 [1,880]	44-7/8 [1,140]	89-3/4 [2,280]	984 [446]
8-PR-48-G	10"	12"	99-22/23 [2,539]	48 [1,219]	NA	68 [1,727]	80 [2,032]	50-7/8 [1,292]	101-3/4 [2,584]	1,137 [516]
3-PR-60-G	8"	10"	39-31/32 [1,015]	60 [1,524]	NA	78 [1,981]	86 [2,184]	20-7/8 [530]	41-3/4 [1,065]	597 [291]
4-PR-60-G	8"	10"	51-31/32 [1,320]	60 [1,524]	NA	78 [1,981]	86 [2,184]	26-7/8 [683]	53-3/4 [1,365]	724 [328]
5-PR-60-G	8"	10"	63-31/32 [1,625]	60 [1,524]	NA	78 [1,981]	86 [2,184]	32-7/8 [835]	65-3/4 [1,670]	850 [386]
6-PR-60-G	10"	10"	75-31/32 [1,930]	60 [1,524]	NA	78 [1,981]	86 [2,184]	38-7/8 [987]	77-3/4 [1,975]	980 [445]
7-PR-60-G	10"	10"	87-31/32 [2,234]	60 [1,524]	NA	78 [1,981]	86 [2,184]	44-7/8 [1,140]	89-3/4 [2,280]	1,107 [502]
8-PR-60-G	10"	12"	99-22/23 [2,539]	60 [1,524]	NA	80 [2,032)	92 [2,336]	50-7/8 [1,292]	101-3/4 [2,584]	1,273 [577]
			M] FOR COLUMNS							. ,
	WEIGHT = LBS [KG] Unit weight includes the fireplace, the glass panels and the glass media.									
	WEIGH	= LBS [K	Unit weight includ נט	es the fireplace	e, tne glass panels	and the glass	media.			

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The hood shall be supported at specific locations using 1/4-20 UNC threaded rods. For more information, refer to Section 3 (Prepare The Fireplace).

Model 4-ST-24-G Shown In Example.
The full shop drawing for each width
can be found under the RESOURCES tab
at the stellar.heatnglo.com website.



C. SPECIFICATIONS

Model #	DESCRIPTION	B-VENT	OA	REG PV	IN-LINE PV	BTU'S	NG ORIFICE	Propane ORIFICE
3'	ANY HEIGHT	8"	10"	RS12	RSIF160	40,000	(2X) #43	(2X) #55
4'	ANY HEIGHT	8"	10"	RS12	RSIF160	60,000	(3X) #43	(3X) #55
5'	ANY HEIGHT	8"	10"	RS12	RSIF160	80,000	(4X) #43	(4X) #55
6'	ANY HEIGHT	10"	10"	RS14	RSIF180	100,000	(5X) #43	(5X) #55
7'	ANY HEIGHT	10"	10"	RS14	RSIF180	120,000	(6X) #43	(6X) #55
8'	ANY HEIGHT	10"	12"	RS14	RSIF180	140,000	(7X) #43	(7X) #55



WARNING: NON-COMBUSTIBLE ZONE: USE ONLY NON-COMBUSTIBLE MATERIAL IN THIS AREA FOR ENTIRE WIDTH OF FIREPLACE. DO NOT USE WOOD, SHEETROCK, ETC., IN THIS ZONE.



NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED.

Refer to Section 4 (Framing), Section 5 (Non-combustible Zone) and Section 10 (Finishing) for more information.



NOTE: The qualified installer should follow the procedure best suited for the installation.

D. INSTALLATION OVERVIEW

- 1. Frame should be built after the fireplace is installed or extra clearance must be planned for at the intake collar. Framing must allow for vent installation
- 2. If masonry (optional) will be used, prepare foundation for the masonry load. A lintel is required to support the added weight above the fireplace.
- 3. Install hearth if desired.
- Insert fireplace into framing.
- 5. Double check clearances to combustibles.
- 6. Complete gas line installation.
- 7. Complete electrical hook-up.
- 8. Complete venting installation.
- 9. Install facing material, mantel or cabinetry.
- 10. Install glass media/natural stone, and any interior options including mirrors and/or driftwood log set.
- 11. Verify proper operation of fireplace and all components.

E. PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- · Fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending entire depth and width of fireplace.
- This fireplace may be installed in a bedroom.

Non-Combustible Materials Specifications

Material which will not ignite and burn.

Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

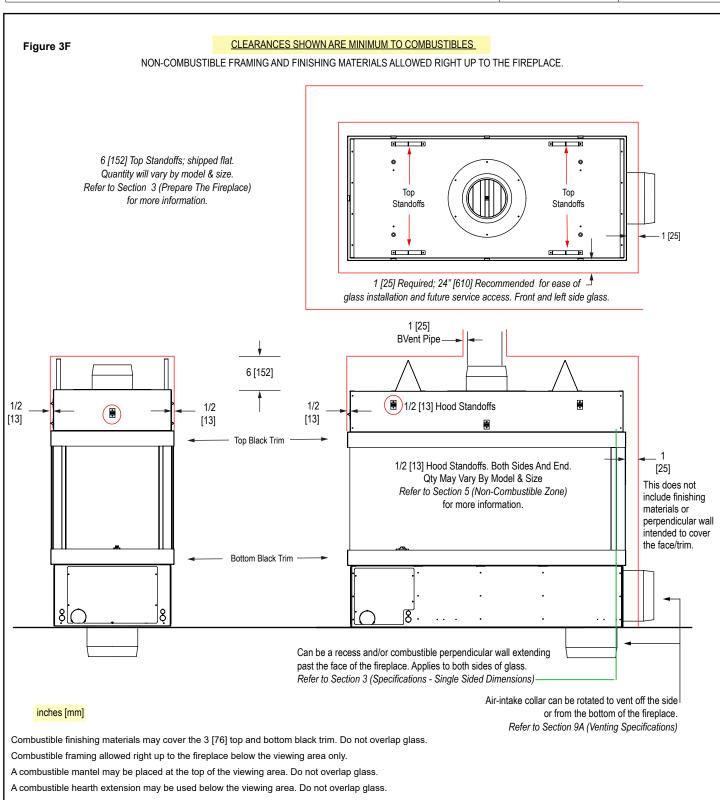
Materials that are reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C shall be considered non-combustible materials.

Combustible Materials Specifications

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered shall be considered combustible materials.

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F. CLEARANCES		
From unit left & right sides	1"	25mm
To flooring under fireplace	0	0
Unit top to ceiling	6"	152mm
Unit side to adjacent sidewall	1"	25mm



Do not place on carpet, vinyl or soft surfaces.

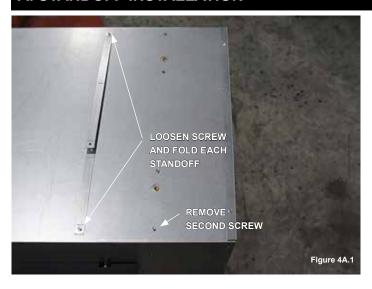


CAUTION: FIREPLACE IS NOT LOAD-BEARING.



NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED.

A. STANDOFF INSTALLATION



STEP 1: Refer to Figure 4A.1

The standoffs will be shipped in a flat state placed on the firebox top. Locate the standoffs and loosen the screws holding them in place.



STEP 2: Refer to Figure 4A.2

Fold the center of the standoff up and both ends out at the perforated lines. Using Figure 4A.2 for reference, locate the second pre-installed screw on the firebox top at each standoff location. Remove the screw, pivot the folded standoff into location and re-install the screw to secure the standoff. Tighten up the screw that was loosened in Step 1.

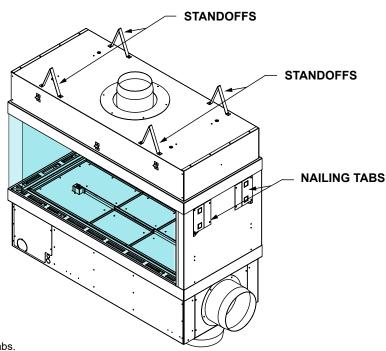


Figure 4A.3 Placement of the standoffs and nailing tabs.

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B. NAILING TABS



STEP 1: Refer to Figure 4B.1

place.

The nailing tabs will be shipped in a flat state placed on the firebox side; four (4) on each side. Locate the nailing tabs and remove the screws holding them in





STEP 2: Refer to Figure 4B.2

Bend the two (2) small tabs out on each nailing tab at the perforated lines. Using Figure 4A.3 for reference, locate the predrilled holes on the firebox side each nailing tab will be placed at.





STEP 3: Refer to Figure 4B.3 & Figure 4B.4

Set each nailing tab in place and secure using two (2) screws each. Bend the nailing tab out from fireplace at the perforated line.

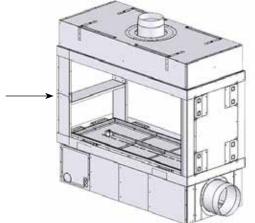
The nailing tabs will ensure the 1" minimum clearance is kept to combustible framing.
Refer to Figure 4B.5

Depending on your installation and how you frame it out, you may not use the provided nailing tabs.

C. SHIPPING SUPPORT BRACKETS

The hood must be supported at specific locations using 1/4-20 UNC threaded rods.

Temporary support brackets are put in place for shipping and installation support and must stay in place until fireplace hood is fully supported.



 Install the threaded rods in the appropriate locations for A, B & C as noted below in D. THREADED ROS.

- Level the fireplace.
- Ensure fireplace is fully supported and leveled and then remove support brackets.

CAUTION! RISK OF INJURY!

DO NOT remove support brackets until fireplace is fully supported and level.

Figure 4C
Temporary Shipping Support Bracket

D. THREADED RODS

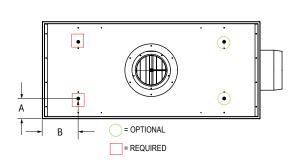
The Pier fireplace requires 2 threaded rods to be placed at the glass-to-glass intersections.

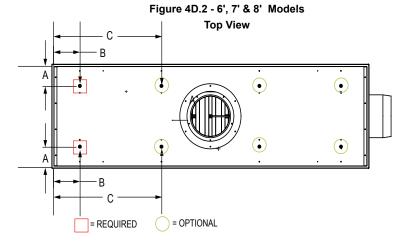
Placement of the required threaded rods is at the A & B intersection at the front left and back left corners notated as REQUIRED A & B locations.

Additional locations are provided if your installation needs more support notated as OPTIONAL A, B & C locations. Once the required threaded rods are in place and the the hood fully supported, the temporary support brackets may be taken off.

See next page for threaded rod installation option.

Figure 4D. 1 - 3', 4' & 5' Models Top View





The hood shall be supported at specific locations using 1/4-20 UNC threaded rods.

Qty 2 threaded rods are required in the front and back left hand corner glass-to-glass intersections (A & B) $\,$

All other locations are optional if additional support is needed.

	an one countries and open an additional support of records.								
MODEL	QTY	Additional	Hood Weight ◀	— ,	4	E	3	(
	REQ	OPT	LBS [KG]	Inches	mm	Inches	mm	Inches	mm
3' PR	2	2	82 [37]	5	127	6-3/8	162	NA	NA
4' PR	2	2	101 [46]	5	127	8-7/8	225	NA	NA
5' PR	2	2	120 [54]	5	127	11-7/8	302	NA	NA
6' PR	2	6	141 [64]	5	127	6-7/8	175	26-7/8	683
7' PR	2	6	160 [73]	5	127	6-7/8	175	32-7/8	835
8' PR	2	6	205 [93]	5	127	6-7/8	175	38-7/8	987

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E. THREADED RODS INSTALLATION (EXAMPLE)

There are several different ways to support the fireplace top and one option is to use a Unistrut installed over the

fireplace that is secured to structurally sound framing. Refer to Figure 4B.

For each threaded rod installation you may need:



Super Strut



Qty 2 1/4-20 Eyebolt



Qty 2 Threaded Quick Link



Qty 2 1/4-20 Turnbuckle



Qty 2 1/4-20 Threaded Rod or All Thread



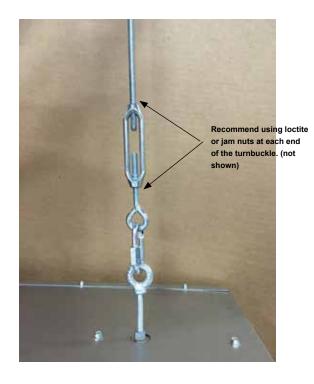
Qty 2 Fender Washe



Up To Qty 1/4-20 Nut

(Qty Per Threaded Rod Used)





- Install the threaded rod fully into the threaded fastener located on top of the fireplace.
- Insert the threaded rod into a hole in the Unistrut straight above the threaded fastener located on top the fireplace.
- Use a fender washer and nut on the top end of the threaded rod to adjust the height of the fireplace opening. Make sure the opening dimension is exact all the way around. Use Locktite to secure the nut from from loosening (not shown).
- If the top of the threaded rod is to be secured into blind threaded fastener or if there isn't clearance above to adjust the rod, you can use a turn-buckle to adjust the height.
- Install an eyebolt fully into the threaded nut located on top of the fireplace.
- Use a quick link to connect the eye bolt to the reverse thread side of the turnbuckle.
- Thread the threaded rod into the normal side of the turnbuckle.
- Use the locktight or jam nuts to secrure the turnbuckle from loosening.

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NOTE: Framing dimensions should allow for wall covering thickness and fireplace facing materials. When using a hearth, adjust rough opening size as necessary to maintain at least minimum clearance requirements.



CAUTION: Install fireplace on metal, concrete or hard wood surface extending the full width and depth of fireplace.



CAUTION: Vent cap location must be in compliance with guidelines in Section 8 (Venting) of this manual.

If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over top of fireplace to support the added weight. Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used.



NOTE: REFER TO DIMENSIONS SECTION FOR ALLOWABLE FINISHING DIMENSIONS REQUIRED TO FIT THE GLASS PANELS INTO THE FIREPLACE. FINISHING MATERIALS MUST NOT OVERLAP THE DIMENSIONS HIGHLIGHTED IN GREEN IN SECTION 2 (DIMENSIONS). NEVER COVER THE GLASS WITH FINISHING MATERIALS.



NOTE: <u>DO NOT</u> PIERCE ANY OF THE BLACK PAINTED SURFACES WITH SCREWS, RIVETS, ETC. THIS INCLUDES THE 3" [76mm] BLACK TOP AND BOTTOM GLASS TRIM AND ANY PAINTED SIDES ADJACENT TO THE GLASS.

IMPORTANT FRAMING NOTES: inches [mm]

THE FIREPLACE IS NOT LOAD-BEARING

FRAMING SHOULD BE BUILT AFTER THE FIREPLACE IS INSTALLED OR EXTRA CLEARANCE MUST BE PLANNED FOR AT THE INTAKE COLLAR AND FOR THE THICKNESS OF MATERIALS USED.

FRAMING DIMENSIONS ASSUMING 1/2" [13] DRYWALL AND NON-COMBUSTIBLE BOARD USED.

THESE DIMENSIONS REPRESENT THE FRAMING DIMENSIONS FOR COMBUSTIBLE MATERIAL.

NON-COMBUSTIBLE FRAMING AND FINISHING MATERIALS MAY BE USED WITHIN THESE DIMENSIONS RIGHT UP TO THE UNIT.

NO COMBUSTIBLE MATERIAL WITHIN 6" [152] OF THE TOP OF THE FIREPLACE.

NO COMBUSTIBLE MATERIAL WITHIN 1" [25] OF THE SIDES, BACK AND FRONT OF THE FIREPLACE.

COMBUSTIBLE MATERIAL SHALL NOT BE PLACED DIRECTLY ON THE FACE OF THE FIREPLACE, TOP AND SIDES.

SEE SECTION 5 (NON-COMBUSTIBLE ZONE) AND SECTION 10 (FINISHING) FOR DETAILS REGARDING 1/2" [25] STANDOFFS.

STEEL SURFACE MAY BE COVERED WITH NON-COMBUSTIBLE FINISHING MATERIAL.

1" CLEARANCE TO THE B-VENT MUST BE MAINTAINED.

A. PIER CORNER FRAMING DIMENSIONS

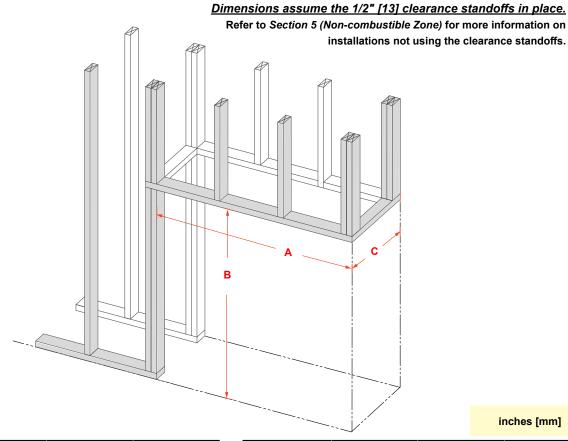


Figure 5A

inches [mm]

MODEL	A Width	B Height	C Depth
3-PR-20-G	42-3/4 [1,086]	52 [1,321]	23 [584]
4-PR-20-G	54-3/4 [1,391]	52 [1,321]	23 [584]
5-PR-20-G	66-3/4 [1,695]	52 [1,321]	23 [584]
6-PR-20-G	78-3/4 [2,000]	52 [1,321]	23 [584]
7-PR-20-G	90-3/4 [2,205]	52 [1,321]	23 [584]
8-PR-20-G	102-3/4 [2,610]	58 [1,473]	23 [584]
3-PR-24-G	42-3/4 [1,086]	56 [1,422]	23 [584]
4-PR-24-G	54-3/4 [1,391]	56 [1,422]	23 [584]
5-PR-24-G	66-3/4 [1,695]	56 [1,422]	23 [584]
6-PR-24-G	78-3/4 [2,000]	56 [1,422]	23 [584]
7-PR-24-G	90-3/4 [2,205]	56 [1,422]	23 [584]
8-PR-24-G	102-3/4 [2,610]	62 [1,574]	23 [584]
3-PR-30-G	42-3/4 [1,086]	62 [1,574]	23 [584]
4-PR-30-G	54-3/4 [1,391]	62 [1,574]	23 [584]
5-PR-30-G	66-3/4 [1,695]	62 [1,574]	23 [584]
6-PR-30-G	78-3/4 [2,000]	62 [1,574]	23 [584]
7-PR-30-G	90-3/4 [2,205]	62 [1,574]	23 [584]
8-PR-30-G	102-3/4 [2,610]	68 [1,727]	23 [584]

MODEL	A Width	B Height	C Depth
3-PR-36-G	42-3/4 [1,086]	68 [1,727]	23 [584]
4-PR-36-G	54-3/4 [1,391]	68 [1,727]	23 [584]]
5-PR-36-G	66-3/4 [1,695]	68 [1,727]	23 [584]
6-PR-36-G	78-3/4 [2,000]	68 [1,727]	23 [584]
7-PR-36-G	90-3/4 [2,205]	68 [1,727]	23 [584]
8-PR-36-G	102-3/4 [2,610]	74 [1,880]	23 [584]
3-PR-48-G	42-3/4 [1,086]	80 [2,032)	23 [584]
4-PR-48-G	54-3/4 [1,391]	80 [2,032)	23 [584]
5-PR-48-G	66-3/4 [1,695]	80 [2,032)	23 [584]
6-PR-48-G	78-3/4 [2,000]	80 [2,032)	23 [584]
7-PR-48-G	90-3/4 [2,205]	80 [2,032)	23 [584]
8-PR-48-G	102-3/4 [2,610]	86 [2,184]	23 [584]
3-PR-60-G	42-3/4 [1,086]	92 [2,336]	23 [584]
4-PR-60-G	54-3/4 [1,391]	92 [2,336]	23 [584]
5-PR-60-G	66-3/4 [1,695]	92 [2,336]	23 [584]
6-PR-60-G	78-3/4 [2,000]	92 [2,336]	23 [584]
7-PR-60-G	90-3/4 [2,205]	92 [2,336]	23 [584]
8-PR-60-G	102-3/4 [2,610]	98 [2,489]	23 [584]

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B. PIER FRAMING DIMENSIONS - RECESS



NOTE: IT IS RECOMMENDED TO SET THE FIREPLACE IN TO PLACE PRIOR TO INSTALLING THE FRAMING.

Framing dimensions noted are minimum framing dimensions to combustible materials only, and it is the responsibility of the installer for determining framing dimensions that allow for wall covering thickness and fireplace facing materials for each individual installation.

RECESS NOTE: To bring the wall on either side of the fireplace more flush with the back wall of the fireplace, the walls may be framed out. 1-7/8 [48] of the fireplace may be covered in combustible material, add the 1 [25] of clearance from the back wall to the frame wall to get a 2-7/8 [73] build-out.

The wall finishing material must be subtracted from that number.

Finishing material must never overlap the glass.

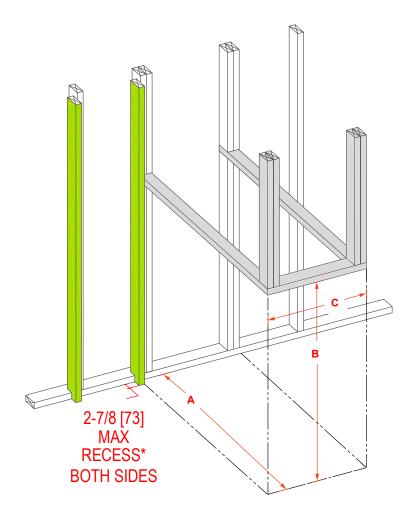


Figure 5B ◀

inches [mm]

C.1 NON-COMBUSTIBLE ZONE - USING THE PROVIDED 1/2" STANDOFFS

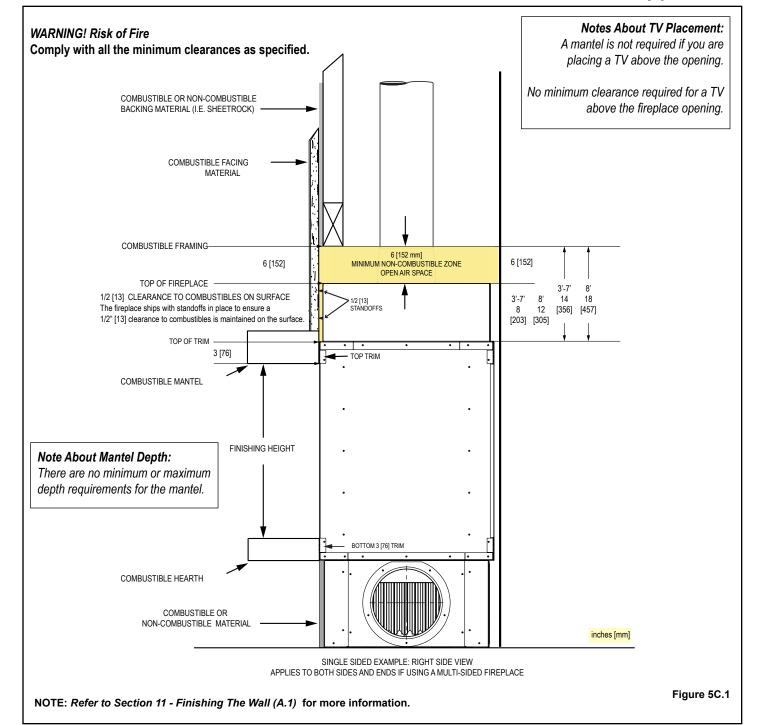
The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the upper left, center and right front of the fireplace and are to ensure that the 1/2 [13] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2 [13] minimum thickness must be used in the space* between the top of the 3 [76] trim to the combustible framing the full width of the fireplace. The space* includes a 7 [178] minimum above the top of the fireplace that is recommended for ease of attachment. *= 15 [381] for 3'-7' units and 19 [483] for 8' units.

Refer to Figure 5C.1 below for a standard installation using the provided 1/2 [13] standoffs. Refer to Figure 5C.2 for requirements when not using the provided 1/2 [13] standoffs.



1/2 [13] Standoff



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C.2 NON-COMBUSTIBLE ZONE - NOT USING THE PROVIDED 1/2" STANDOFFS

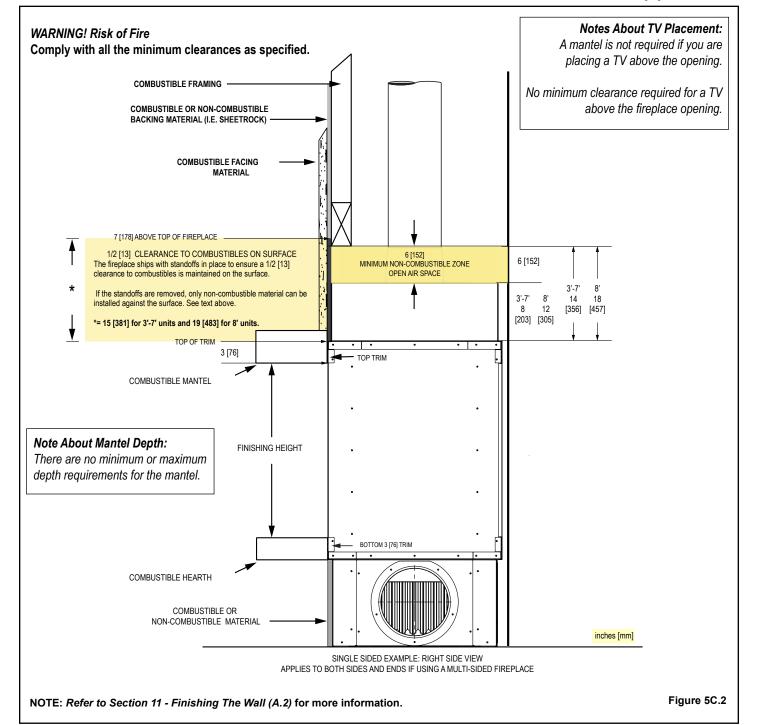
The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the left, center and right front hood of the fireplace and are to ensure that the 1/2[13] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2 [13] minimum thickness must be used in the space* between the top of the 3 [76] trim to the combustible framing the full width of the fireplace. The space* includes a 7 [178] minimum above the top of the fireplace that is recommended for ease of attachment. *= 15 [381] for 3'-7' units and 19 [483] for 8' units.

Refer to Figure 5C.2 below for requirements when not using the provided 1/2 [13] standoffs. Refer to Figure 5C.1 for a standard installation using the provided 1/2 [13] standoffs.

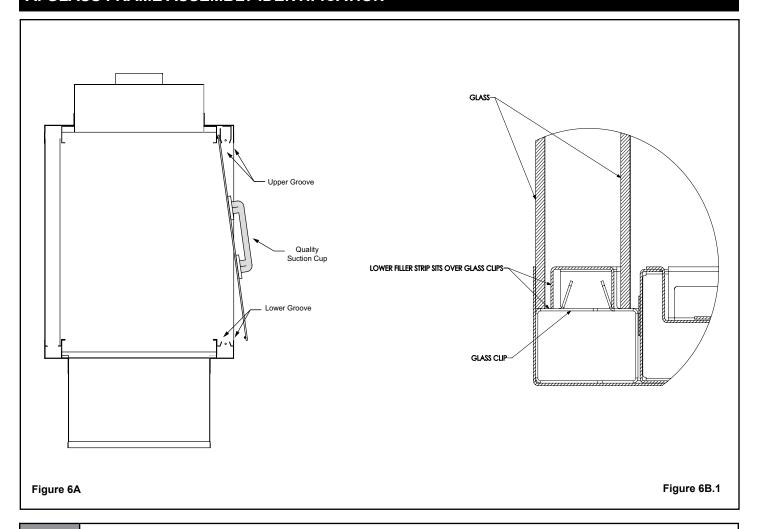


1/2 [13] Standoff



6 - GLASS FRAME ASSEMBLY

A. GLASS FRAME ASSEMBLY IDENTIFICATION





CAUTION: TO PREVENT GLASS FRAME ASSEMBLY FROM FALLING FROM FIREPLACE AND BECOMING DAMAGED, FOLLOW THE INSTRUCTIONS EXACTLY WHEN REMOVING AND INSTALLING GLASS FRAME ASSEMBLY.



STOP: DO NOT OPERATE THIS FIREPLACE WITH THE GLASS REMOVED, CRACKED OR BROKEN.
REPLACEMENT OF GLASS ASSEMBLY SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.



WARNING: DO NOT REMOVE GLASS ASSEMBLY WHEN HOT!!!!



NOTE: GLASS REMOVAL AND INSTALLATION MUST BE PERFORMED WITH TWO PEOPLE.



NOTE: Glass must be removed using quality suction cups. DO NOT attempt to remove the glass without using proper suction cups.



NOTE: IN CASE OF CHIPPED OR BROKEN GLASS, due to the size and sensitivity of shipping the glass separately it is best to have the replacement glass cut locally if needed.

REFER TO SECTION 16 - REPLACEMENT PARTS FOR THE GLASS SIZE CHART FOR DIMENSIONS AND SPECIFICATIONS.

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6 - GLASS FRAME ASSEMBLY

Refer to Section 6 (Glass Frame Assembly Identification Figures 6A & 6B.1) when installing and removing the glass frame assembly.

B. INSTALL GLASS FRAME ASSEMBLY



Figure 6B.2 - Outer Glass Edge Protector



Figure 6B.3 - Vertical Trim Piece



Figure 6B.4 - Horizontal Trim Piece

IMPORTANT: PLASTIC GLASS EDGE PROTECTORS The fireplace is shipped with a plastic edge protector on the outer pane of glass only.

See Figure 6B.2

Inner Glass

- Unwrap the panes of glass carefully making sure to protect the edges.
- Apply the suction cups to the inner glass assembly, following instructions included with the suction cups.
- 3. Lift the glass into place. The top edge slips into the top groove (the glass will be behind the glass clip and against the gasketing); lift into the groove until the bottom is clear of the bottom trim. Make sure the glass is behind all the glass clips and slide the glass down into the inner bottom grove. Gently push the glass tightly into the gasketing. See Figure 6A
- Push vertical glass trim into place on each side.
 Once into place, slide the vertical glass trim all the way down so the top is almost even with the top viewing area. See Figure 6B.3
- Place the long horizontal trim piece between the lower glass clips.
 Slide back against the inner glass. See Figure 6B.3 and
 Figure 6B.4.

Outer Glass

6. Apply the suction cups to the outer glass and lift it into place in the same manner as the inner glass.



WARNING: RISK OF INJURY!

DO NOT remove glass until unit is cooled to room temperature. Glass breakage could occur.

C. REMOVE GLASS FRAME ASSEMBLY

- 1. Apply the suction cups to the outer glass panel following the instructions included with the suction cups.
- 2. Gently lift the glass until the bottom edge is clear of the groove it sits in.
- 3. Bring the bottom edge of the glass towards you while lowering it to disengage it from the top groove.
- 4. Sit the glass on a padded surface to protect it. IMPORTANT: Protect the glass's edges.
- 5. Remove the lower trim piece that sits between the layer of glass.
- 6. Remove the inner trim vertical pieces.
- 7. Using the suction cups, remove the inner glass in the same manner.

7 - GAS LINE SPECIFICATIONS

This fireplace is manufactured for use with Natural Gas or Propane.



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.



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.



NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than $\frac{1}{2}$ psi (3.5 kPa).



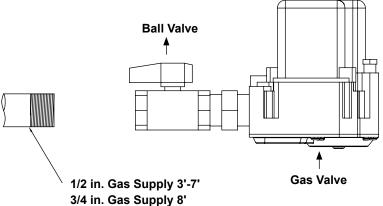
NOTE: For high altitude installations, consult Stellar by Heat&Glo directly for proper rating methods.

A. GAS LINE CONNECTION	Propane	NG
MINIMUM INLET GAS PRESSURE	11.0 inches W.C. (recommended)	7.0 inches W.C. (recommended)
MAXIMUM INLET GAS PRESSURE	14.0 inches W.C.	10.0 inches W.C.
MANIFOLD PRESSURE (HI)	10.0 inches W.C.	3.5 inches W.C.
ORIFICE SIZE	See Specifications Chart in Section 3.C	See Specifications Chart in Section 3.C
INPUT BTU/HR	See Specifications Chart in Section 3.C	See Specifications Chart in Section 3.C

NOTE: Have the gas supply line installed in accordance with local codes. If not, follow ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

NOTE: A listed (and Commonwealth of Massachusetts approved) 1/2 in. or 3/4 in. T-handle manual shut-off ball valve is connected to the 1/2 in. or 3/4 in. control valve inlet.

Figure 7

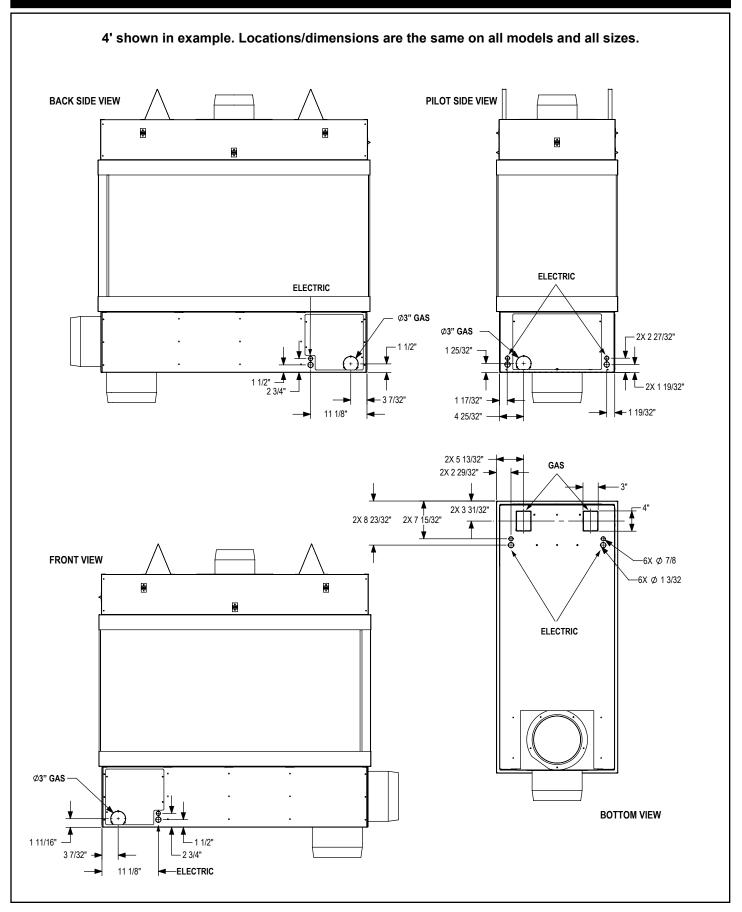


ADDITIONAL INFORMATION IN SECTION 2.B (GAS & ELECTRIC ACCESS LOCATIONS)

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7 - GAS LINE SPECIFICATIONS

B. GAS & ELECTRIC ACCESS LOCATIONS





CAUTION: Consult the local and national installation codes to assure adequate combustion and ventilation air is available.



NOTE: Flame height and appearance will vary depending upon venting configuration and type of fuel used. Venting requirements apply to both Natural and Propane gas.



STOP: MAINTAIN ALL CLEARANCES AS STATED IN THIS INSTALLATION MANUAL.

A. APPROVED VENTING					
Model #	DESCRIPTION	B-VENT Ø	OUTSIDE AIR Ø	STANDARD POWERVENT	IN-LINE POWERVENT
3'	ANY HEIGHT	8"	10"	RS12	RSIF160
4'	ANY HEIGHT	8"	10"	RS12	RSIF160
5'	ANY HEIGHT	8"	10"	RS12	RSIF160
6'	ANY HEIGHT	10"	10"	RS14	RSIF180
7'	ANY HEIGHT	10"	10"	RS14	RSIF180
8'	ANY HEIGHT	10"	12"	RS14	RSIF180

*Amperage listed is t	he maximum	required for
the a	appliance with	all options.

B.1 SYSTEM SUPPLY VOLTAGE			
POWERVENT MODEL NUMBER	VAC	AMPS	
RS12 (3', 4', & 5' Models)	120	3.2	
RS14 (6', 7' & 8' Models)	120	3.4	
RSIF160 (3', 4', & 5' Models)	120	4.9	
RSIF180 (6', 7' & 8' Models)	120	7.3	

B.2 POWERVENT SUPPLY VOLIAGE				
POWERVENT MODEL NUMBER	VAC	АМР	H/P	
RS12 (3', 4', & 5' Models)	120	1.2	1/9	
RS14 (6', 7' & 8' Models)	120	1.4	1/7	
RSIF160 (3', 4', & 5' Models)	120	2.9	3/7	
RSIF180 (6', 7' & 8' Models)	120	5.3	13/16	

OWEDVENT CUDDLY VOLT

Important: Be sure to do your own calculations based on the center line dimension given from the pipe manufacture you are using for your installation.

Refer to the vent systems manufacturer's installation manual for complete installation instructions.

Installation must conform with the venting requirements and restrictions as outlined in this manual.

SEE CHART ABOVE FOR SIZE diameter B-Type Venting that must be used. UL/CSA approved

B-Vent only. DO NOT decrease the vent size.

Vent runs are approved for up to 110 feet with quantity of eleven 90 degree elbows.

Vent runs may also contain a downward component. The downward component may be a maximum of 6 feet plus the distance to the center line of the elbow. See Figure 8A.1.

This will be about 87" for 8" diameter pipe and 92" for 10" diameter pipe.

Due to natural buoyancy of flue gas products, venting downward increases restriction.

Every inch of vertical drop counts as triple inches subtracted off the total vent run.

Example: a maximum drop of 92" means the total allowed vent run is decreased by 276" (23')

Once a downward component has been utilized, the vent cannot go upwards again.

Moisture may get trapped in the vent pipe.

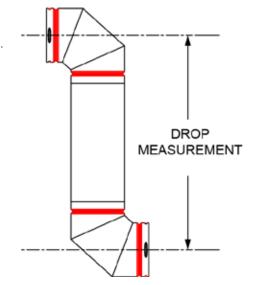


Figure 8B



ANOTE: All pipe and elbow joints must be sealed. This includes the longitudinal seam on the pipe. High Temp RTV Silicone and/or foil tape MUST be used on each joint/seam. Failure to do so may cause lack of vacuum and may not trigger the vacuum switch.



ATTIC INSTALLATIONS: Use an attic shield to maintain the required 1 [25] clearance to insulation.

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C. RS SERIES POWERVENT SPECIFICATIONS

Available Power Venting

A power vent (RS12 & RS14) is approved for use with this appliance. It is crucial that all B-Vent pipe and elbow joints, and the longitudinal seam are sealed using a high temperature RTV Silicone and/or foil tape.

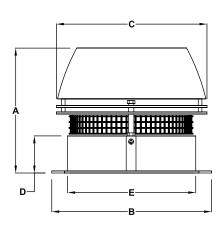


Figure 8C

MODEL	RS12	RS14
Fan Type	Axial Vane	Axial Vane
Motor Type	Totally enclosed, variable speed, Class F	Totally enclosed, variable speed, Class F
Voltage (VAC)	1 x 120	1 x 120
RPM	1600	1600
CFM	950	1400
Amperage (Amps)	1.2	1.4
Motor Output HP (kW)	1/9 (0.08)	1/7 (0.1)
Weight lbs (kg)	37 (17)	47 (21)
Dimension A in. (mm)	11.5 (292)	13.1 (334)
Dimension B x B in.(mm)	14.3 (364)	16.6 (422)
Dimension C in. (mm)	13.5 (344)	15.5 (395)
Dimension D in. (mm)	3.3 (85)	3.9 (100)
Dimension E in. (mm)	11.6 (294)	13.5 (342)
Temperature Rating-Intermittent	575 °F / 300 °C	575 °F / 300 °C
Temperature Rating-Continuous	482 °F / 250 °C	482 °F / 250 °C

D. CHIMNEY COLLAR DIMENSIONS

Chimney Collar Dimensions

A chimney collar is included for use with the RS12 and RS14. The chimney collar is used to attach the RS power vent. Figures 8D.1 and 8D.2 show the dimensions of the chimney collar.

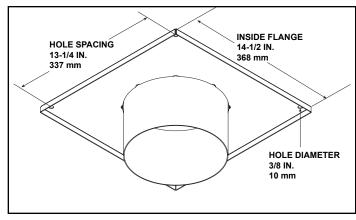


Figure 8D.1 8 Inch Chimney Collar Dimensions (RS12)

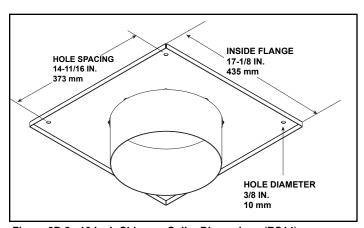
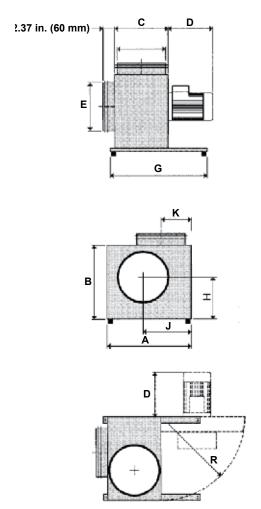


Figure 8D.2 10 Inch Chimney Collar Dimensions (RS14)

E. RSIF SERIES POWERVENT SPECIFICATIONS

Available In-Line Power Venting

An in-line power vent (RSIF160 or RSIF180 is approved for use with this appliance. It is crucial that all B-Vent pipe and elbow joints, and the longitudinal seam are sealed using a high temperature RTV Silicone and/or foil tape.



MOD	DEL	RSIF160	RSIF180
Fan Type		Centrifugal Impeller (F-Wheel)	Centrifugal Impeller (F-Wheel)
Motor Type		TEFC	TEFC
Voltage	(VAC)	1 x 120	1 x 120
Amperage	Amps	2.9	5.3
Motor Output	hp (kW)	3/7 (.32)	13/16 (.61)
RPM		1600	1600
Weight	lbs (kg)	38 (17)	60 (27)
Duct Connection	(E) in. (mm)	8 (203)	8 (203)
Dimension A	in. (mm)	14.57 (370)	16.15 (410)
Dimension B	in. (mm)	12.60 (320)	13.98 (355)
Dimension C	in. (mm)	9.26 (235)	9.26 (235)
Dimension D	in. (mm)	5.52 (140)	7.68 (195)
Dimension E	in. (mm)	7.9 (200)	7.9 (200)
Dimension G	in. (mm)	15.75 (400)	15.75 (400)
Dimension H	in. (mm)	7.10 (180)	7.88 (200)
Dimension J	in. (mm)	8.27 (210)	9.26 (235)
Dimension K	in. (mm)	5.12 (130)	5.12 (130)
Dimension R	in. (mm)	14.57 (370)	16.15 (410)

Figure 8F.5

Optional Universal Exhaust and Outdoor Air-Intake Louver information found in Section 9 - Venting Options (B).

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F. IN-LINE POWERVENT PREPARATIONS- RSIF 180

Perform the following steps when installing the RSIF180 on 6', 7' & 8' models.

- 1. Attach the provided 10 inch B-Vent collar to the intake side of the powervent. The intake side is located opposite the fan motor as shown in Figure 8F.1. The 10 inch B-Vent collar is packaged separately from the powervent. See Figure 8F.2.
- Note the silhouette circle printed on the intake side of the powervent. The pre-drilled screw holes within the circle will be matched with the holes on the intake collar of the base plate. See Figure 8F.3.
- Place the intake collar base plate onto the silhouette, matching up the holes as shown in Figure 8F.4. Fasten the base plate to the silhouette using five self-tapping screws.
- Add the rope gasket included with the kit to the outlet side of the inline powervent.
- 5. An adapter to increase from eight inch pipe to ten inch pipe is required on the outlet side of the in-line powervent. The adapter is included in the RSIF180 kit. See Figure 8F.5. Connect the adapter directly to the eight inch outlet collar of the in-line powervent. Connect the ten inch exhaust B-Vent to the collar and continue the vent run.

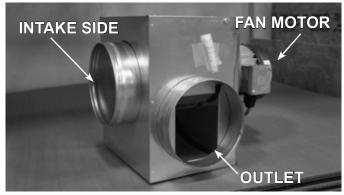


Figure 8F.1 In-Line Powervent (RSIF180)

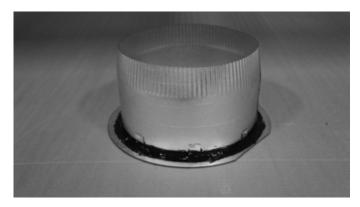


Figure 8F.2 Ten Inch B-Vent Collar

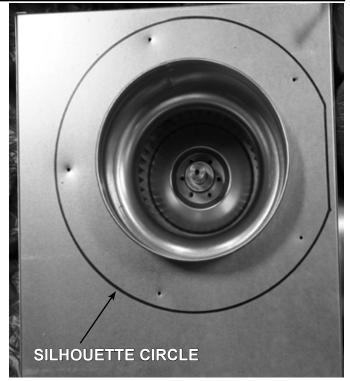


Figure 8F.3 Silhouette Circle on Intake

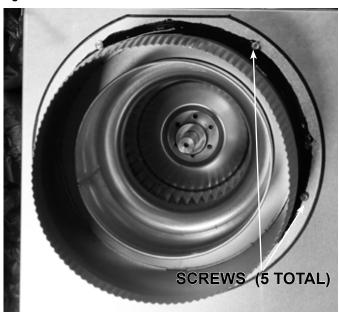


Figure 8F.4 Base Plate Fastened to Intake



Figure 8F.5 Page 29

G. HORIZONTAL VENT SYSTEM CLEARANCES			
ALL APPROVED VENTING	ТОР	воттом	SIDES
HORIZONTAL	1 [25]	1 [25]	1 [25]

inches [mm]

H. WALL PASS-THROUGH - Follow all local codes for requirement of firestops.

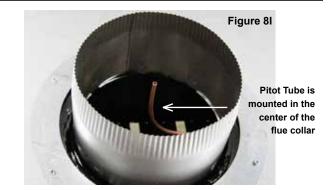
8 - VENTING

I. PITOT TUBE INFORMATION

There is a 1/4" pitot tube mounted in the center of the flue collar and is connected to the pressure switch. (Figure 8I)

This monitors the pressure in the flue and is necessary for proper operation. Take care to keep the end of the tube clean.

IMPORTANT: THIS TUBE MUST NOT BE BENT, CLOGGED, REMOVED, OR ALTERED IN ANY WAY.



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J. VERTICAL TERMINATION GUIDELINES

- · The fireplace must terminate with the included approved powered termination cap.
- NO SUBSTITUTION IS ACCEPTABLE.
- Carefully follow the instructions included with the approved powered termination cap.
- DO NOT use an additional speed control on this powervent.
- · You must use the included Capacitor.

K. HORIZONTAL TERMINATION VENT CAP LOCATION & CLEARANCE

This gas appliance must not be connected to a chimney serving any other appliance.

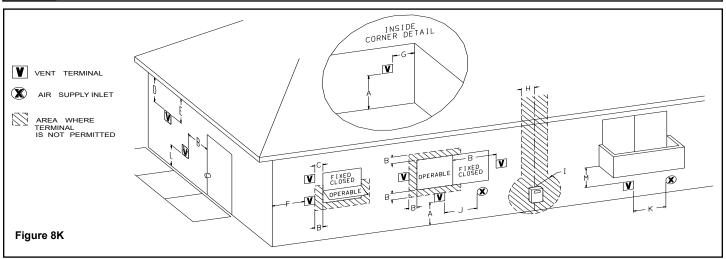
- DO NOT RECESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS i.e.: brick, stone, siding, etc. If necessary, extend framing so that termination kit will be exposed once building materials are installed.
- Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must not be obstructed.

LOCATION CLEARANCES:

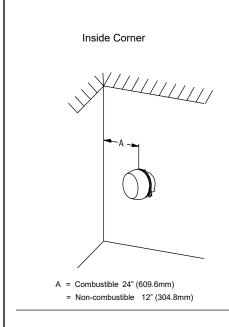
- A. Above grade, veranda, porch, deck, balcony 12 inches [305 mm].
- B. Operable window or door 12 inches [305 mm].
- C. Permanently closed window* 12 inches [305 mm] (recommended to prevent condensation on window).
- D. Ventilated soffit* 24 inches [610 mm].
- E. Unventilated soffit* 12 inches [305 mm].
- F. Outside corner* 6 inches [152 mm].
- G. Inside corner* to non-combustibles 12 inches [305 mm]. Inside corner* to combustibles 24 inches [610 mm].
- H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3 ft. [914 mm] horizontally from the center-line of the regulator.
- I. Gas Service regulator vent outlet 3 ft. [914 mm].
- J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.
 - US: 9" [229 mm] CANADA: 12 inches [305 mm].
- K. Mechanical air supply inlet.
 - US: 3 ft. [914 mm] above if within 10 ft. [3.05 m] horizontal. Massachusetts installations: 10 ft. [3.05 m].
 - CANADA: 6 ft. [1.83 m].
- L. Above paved side-walk or paved driveway located on public property 7 ft. [2.13 m].
- M. Under veranda, porch, deck, or balcony [must be fully opened on a minimum of 2 sides] Combustible 24 inches [610 mm], Non-Combustible 12 inches [305 mm].
- N. Between two horizontal terminations 12 inches [305 mm]. (Not shown in Figure 8I).
- O. Between two vertical terminations 12 inches [305 mm]. Terminations may be same height (Not shown in Figure 8I).
 - N & O: Minimum of 12 inches [305 mm] required when two exhaust termination caps are placed next to each other. Measurement must be taken from inside edge of one steel chimney adapter to the inside edge of the other steel chimney adapter. A metal divider plate with same length and height as termination cap is required to be installed between the caps. Divider plate is not required if caps are at least 24 inches [610 mm] apart, measured edge to edge.
- P. Above furnace exhaust or inlet 12 inches [305 mm]. (Not shown in Figure 8K.
- *Clearance must be in accordance with local installation codes & the requirements of the gas supplier.

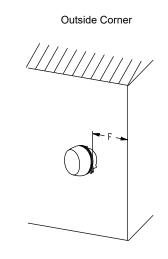


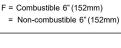
NOTE: A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwellings and serves both dwellings.

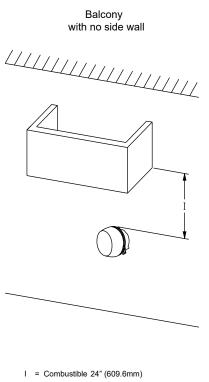


L. HORIZONTAL TERMINATION VENT CAP LOCATION & CLEARANCES



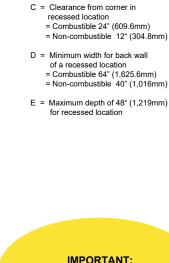




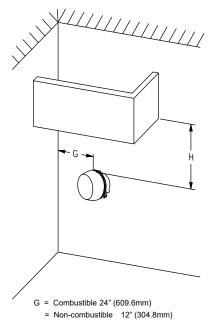


IMPORTANT: All dimensions are from the edge of the cap.

Recessed Location



Balcony with perpendicular side wall



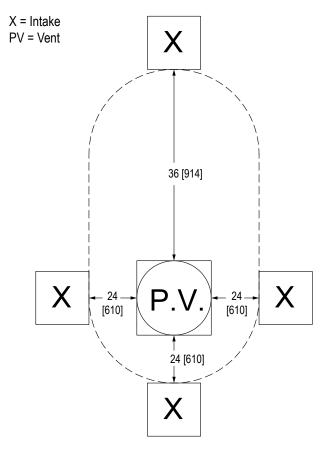
- H = Combustible 24" (609.6mm)
 - = Non-combustible 12" (304.8mm)
- = Non-combustible 12" (305mm)

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M. HORIZONTAL POWERVENT AND AIR-INTAKE PLACEMENT CLEARANCES

M.1 - RS SERIES POWERVENT

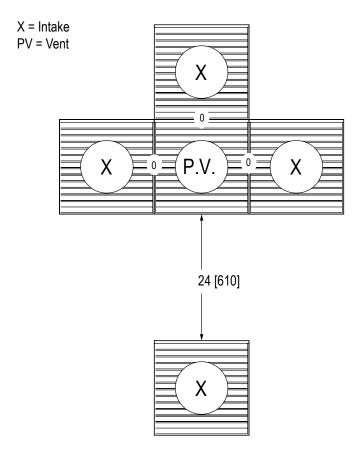
M.2 - IN-LINE POWERVENT (LOUVER 8/10)



inches [mm]

Minimum Clearance Using a RS Series Powervent
Intake Placed Above Vent = 36 [914]
Intake Place To Left Side, Right Side or Below Vent*= 24 [610]
*Left/Right/Below With A Non-Combustible Divider Between = 12 [305]

Figure 8M.1 ◀



inches [mm]

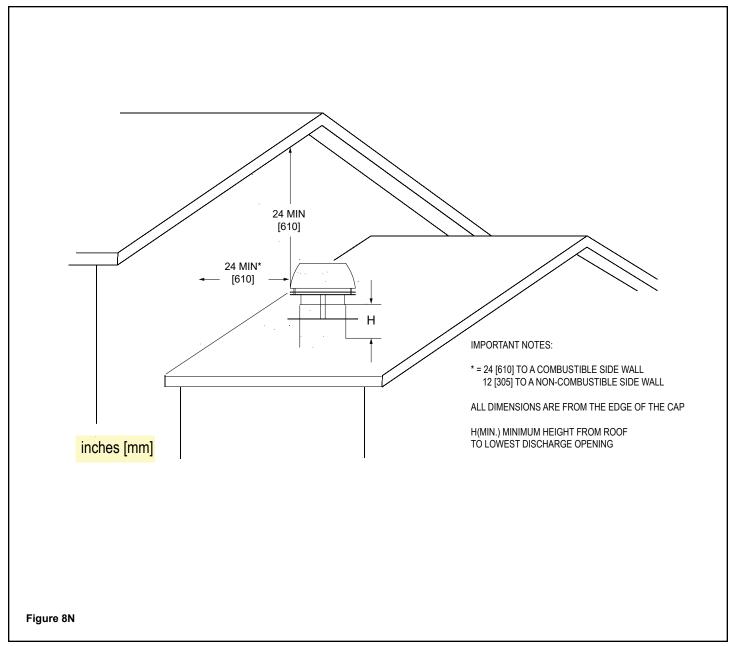
Minimum Clearance Using an In-Line Powevent
Intake Placed Below Vent = 24 [610]
Intake Place To Left Side, Right Side or Above Vent = 0

Figure 8M.2 ◀

N. VERTICAL VENT CAP LOCATION AND CLEARANCES

ROOF PITCH	H (Min.) Ft.	H (Min.) M.
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

* = 3 foot minimum in snowy regions

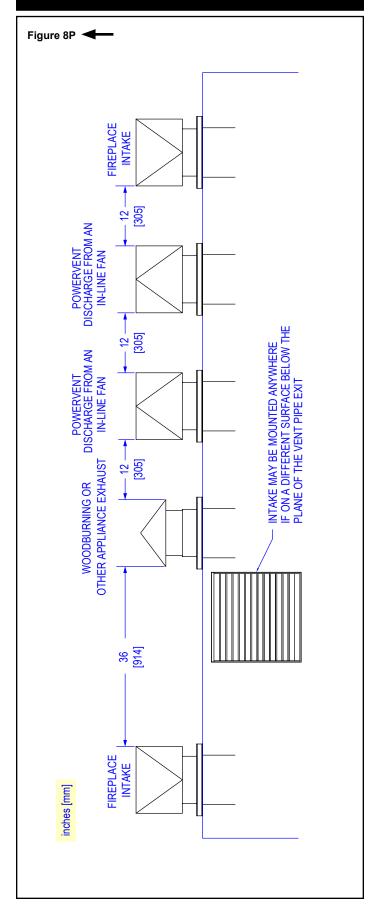


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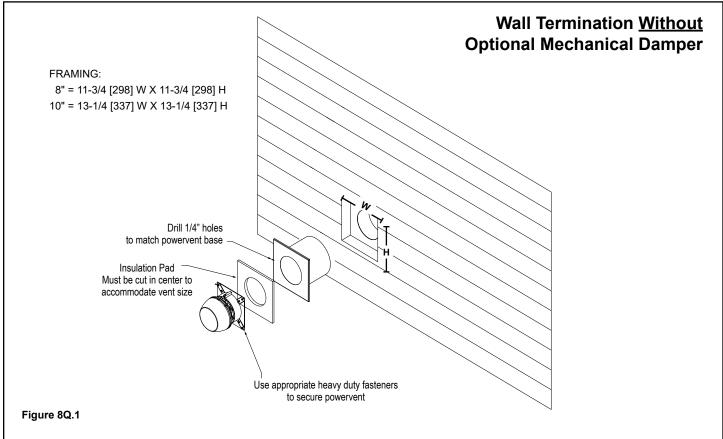
O. VERTICAL -CLEARANCES - RS12/14/16

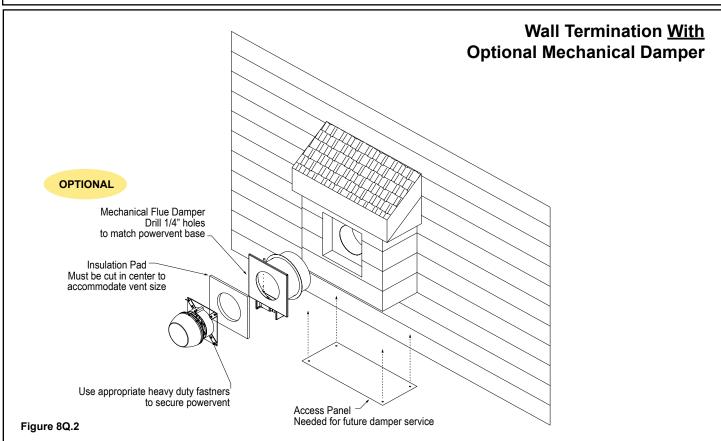
Figure 80 FIREPLACE INTAKE * CAN BE REDUCED TO 12" IF A NON-COMBUSTIBLE DIVIDER THE HEIGHT AND WIDTH OF THE POWER VENT CAP IS PLACED AT THE CENTER POINT BETWEEN THE TWO CAPS. 24* [610] **ENERVEX RS12/14/16 POWERVENT** 24* [610] **ENERVEX RSXX POWERVENT** INTAKE MAY BE MOUNTED ANYWHERE IF ON A DIFFERENT SURFACE BELOW THE PLANE OF THE VENT PIPE EXIT 24* [610] OTHER APPLIANCE EXHAUST WOODBURNING OR 36 [914] FIREPLACE INTAKE inches [mm]

P. VERTICAL -CLEARANCES -RSIF160-180



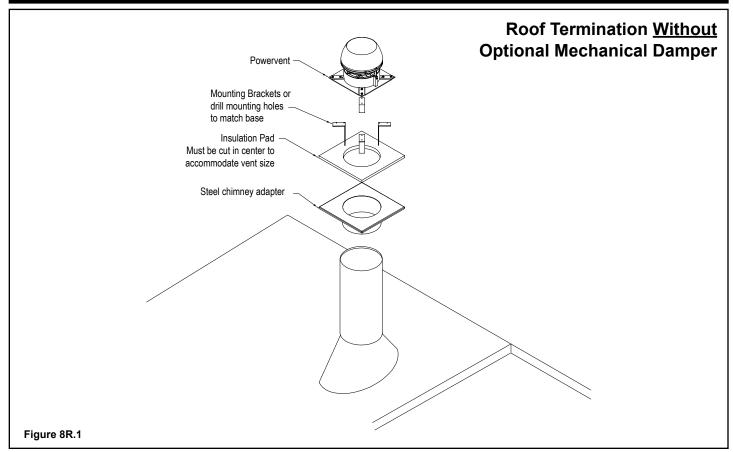
Q. WALL TERMINATION - WITH AND WITHOUT DAMPER

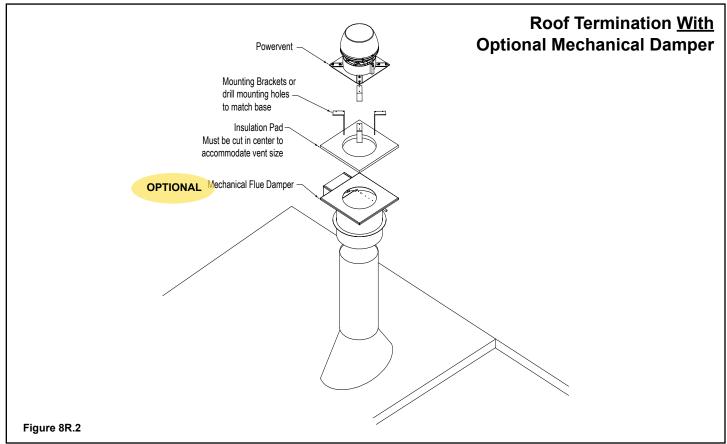




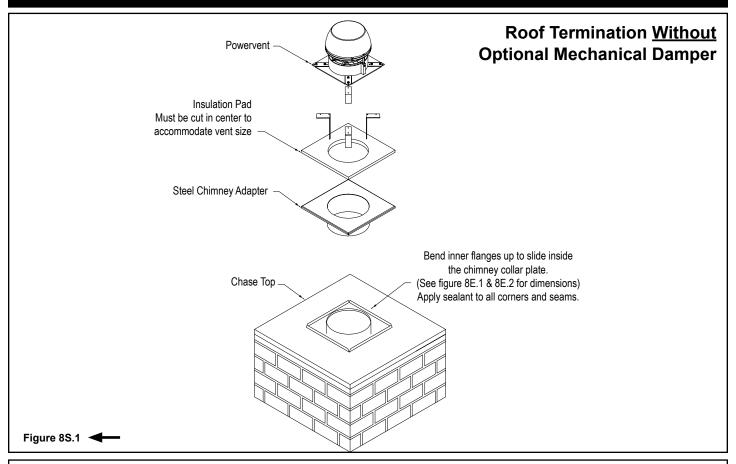
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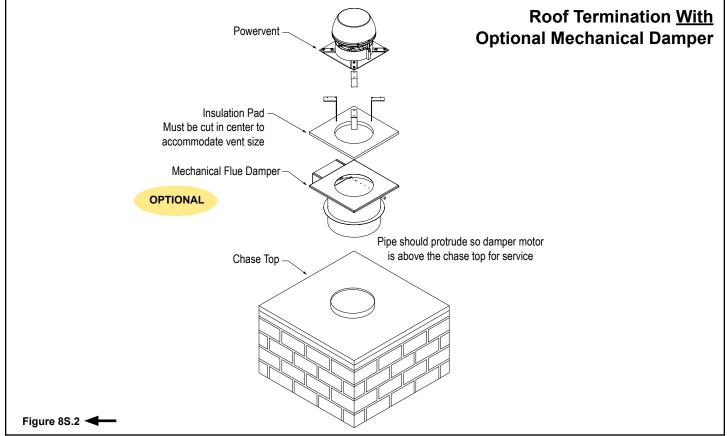
R. ROOF TERMINATION CAP INSTALLATION - WITH AND WITHOUT DAMPER





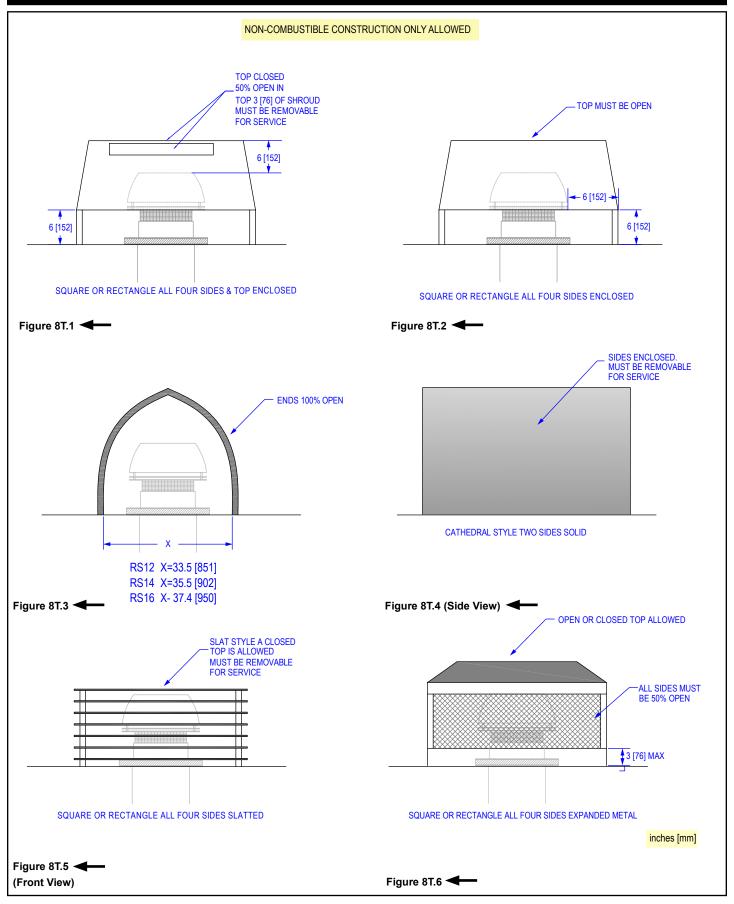
S. CHASE TOP CAP INSTALLATION - WITH AND WITHOUT DAMPER





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T. CHIMNEY SHROUD TYPES AND SPECIFICATIONS



U. OUTDOOR AIR INTAKE

This fireplace has the options of air intake connections on the side or the bottom of the fireplace.

This fireplace is approved for use with 10 inch rigid metal pipe or UL approved 10 inch Class 0 or Class 1 flex for intake air.

Use Table 8U.1 for venting requirements if using UL approved 10 inch flex for intake air.

Vent runs utilizing 10 inch rigid metal pipe may be 110 feet with 11 elbows. We recommend insulating the intake air duct or using UL approved Class 1 insulated flex in hot, humid or cold climates.

If not using our LOUVER10/12 intake cap, the intake cap must maintain the square inches stated in table 8U.2. This usually means the intake cap will need to be sized larger than the intake pipe to account for bird/ insect screens.

Example: 10 inch intake will require 12 inch intake cape connected via duct reducer. Failure to do so will result in higher operating temperatures.

The fireplace may also take room air for combustion. Intake screen/vent must be sized appropriately. You must plan for the replacement air that is consumed from the room by the fireplace. Do not draw intake air from a crawl space or an attic (ventilated or not ventilated).

WARNING! Risk of Fire! DO NOT draw intake air from an attic or crawl space. Appliance could overheat.

Use Table 8U.2 for reference on CFM replacement air if drawing intake air from inside the house and open air requirements for intake screen/vent or consult Hearth & Home Technologies for more information.

				Figure 8U.1				
		UL Approved	Class 1, 10 Inch Insulated Flex Intake Air Venting Requirements				its	
				Number of Offsets FEET [METERS]				
	Fireplace Size	Length Of Run	0-3	4	5	6	7	8
	3'		100 [30.5]	90 [27.4]	80 [24.4]	70 [21.3]	60 [18.2]	50 [15.2]
	4'		100 [30.5]	90 [27.4]	80 [24.4]	70 [21.3]	60 [18.2]	50 [15.2]
- [5'	Feet [Meters]	70 [21.3]	60 [18.2]	50 [15.2]	40 [12.2]	30 [9.1]	20 [6.1]
	6'		45 [13.7]	35 [10.7]	25 [7.6]	15 [4.6]	5 [1.5]	N/A
	7'		32 [9.8]	20 [6.1]	15 [4.6]	10 [3.05]		
	8'	12" Flex	70 [21.3]	60 [18.2]	50 [15.2]	40 [12.2]	30 [9.1]	20 [6.1]

	Figure 8U.2			
CFM Replacement Air				
Fireplace	Required	Open Air		
Size CFM		Requirement		
3'	320 CFM	78 Sq. Inches		
4'	480 CFM	78 Sq. Inches		
5'	640 CFM	78 Sq. Inches		
6'	800 CFM	78 Sq. Inches		
7'	960 CFM	78 Sq. Inches		
8'	1,120 CFM	113 Sq. Inches		



NOTE: GLASS TEMPERATURES

Stellar fireplaces use large amount of outside air for combustion and to cool the viewing glass.

When operating the fireplace in the summer, the incoming air will be warmer therefore the glass will be warmer.

When operating the fireplace in the winter, the glass will be cooler. This is not a safety concern, but something to note.



POWERVENT AND AIR-INTAKE CAP PLACEMENT CLEARANCES

For horizontal installation clearances refer to Section 8 - Venting (K, L & M).

For vertical installation clearances refer to Section 8 - Venting (J, N, O & P).

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V. CHANGING FROM OUTSIDE SIDE INTAKE AIR TO BOTTOM INTAKE AIR

Step 1: Remove 4 screws that hold collar plate in place. Refer to Figure 8V.1

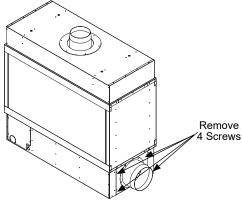


Figure 8V1

Step 2: Slide collar plate off fireplace. Refer to Figure 8V.2

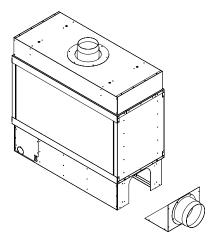
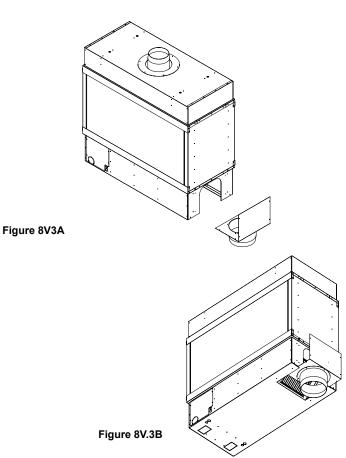


Figure 8V.2

Step 3: Turn plate so collar is facing down, slide plate into slots on each side. Refer to Figure 8V.3A and Figure 8V.3B



Step 4: Re-attach the plate with four screws. Refer to Figure 8V.4

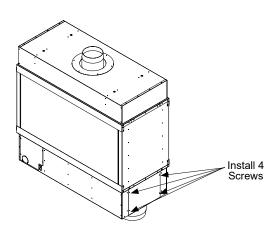
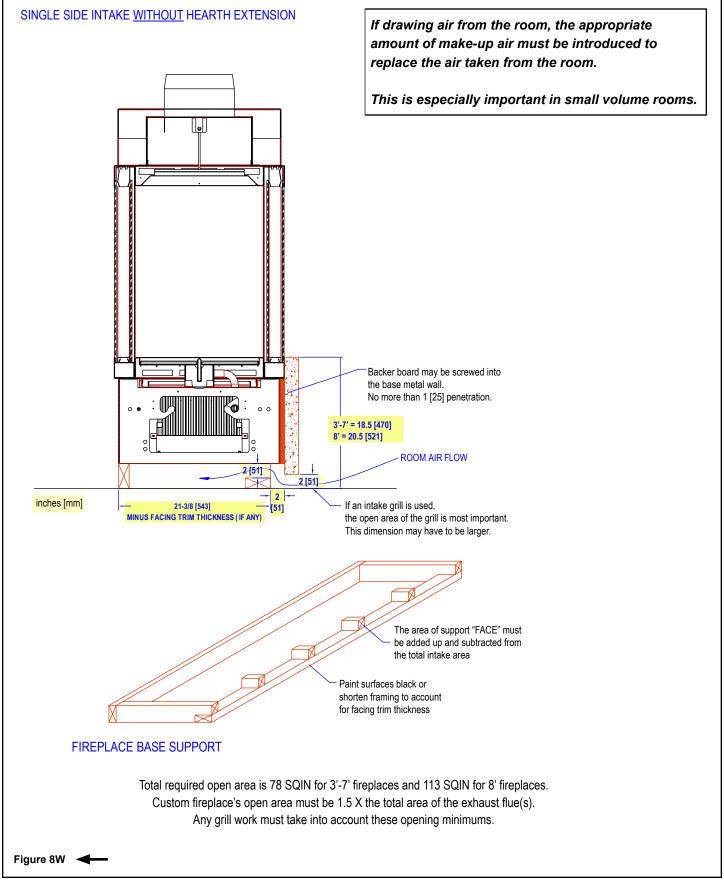


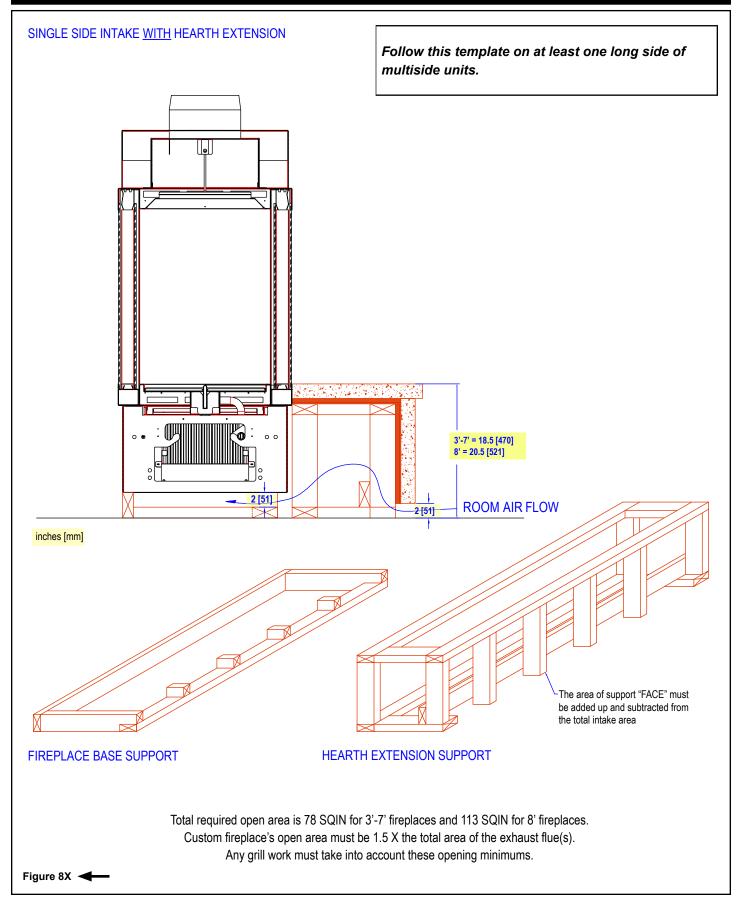
Figure 8V4

W. ROOM AIR FOR COMBUSTION - TOE KICK EXAMPLE WITHOUT HEARTH



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X ROOM AIR FOR COMBUSTION - TOE KICK EXAMPLE WITH HEARTH



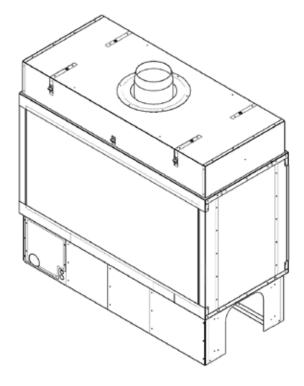
9- VENTING OPTIONS

NOTE: CANNOT USE ON BAY OR FOUR SIDED DESIGNS

A. OPTIONAL VERTICAL AIR-INTAKE SIDE CHUTE

Use of the optional Outdoor Air-Intake Side Chute may be used with vertical runs where space is limited on the side of the fireplace.

inches [mm]		WIDTH	DEPTH	HEIGHT	COLLAR DIAMETER
Side Chute Part Number	DESCRIPTION - (FP WIDTH)	A	В	С	D
VIC20	Vertical Air-intake Chute for 20" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	54-29/32 [1,395]	10 [254]
VIC24	Vertical Air-intake Chute for 24" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	58-29/32 [1,496]	10 [254]
VIC30	Vertical Air-intake Chute for 30" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	64-29/32 [1,649]	10 [254]
VIC36	Vertical Air-intake Chute for 36" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	70-29/32 [1,801]	10 [254]
VIC48	Vertical Air-intake Chute for 48" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	82-29/32 [2,108]	10 [254]
VIC60	Vertical Air-intake Chute for 60" High Enlight (3/4/5/6/7)	8-9/32 [210]	14-21/32 [372]	94-29/32 [2,387]	10 [254]
VIC20-8	Vertical Air-intake Chute for 20" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	60-29/32 [1,547]	12 [305]
VIC24-8	Vertical Air-intake Chute for 24" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	64-29/32 [1,649]	12 [305]
VIC30-8	Vertical Air-intake Chute for 30" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	70-29/32 [1,801]	12 [305]
VIC36-8	Vertical Air-intake Chute for 36" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	76-29/32 [1,953]	12 [305]
VIC48-8	Vertical Air-intake Chute for 48" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	88-29/32 [2,260]	12 [305]
VIC60-8	Vertical Air-intake Chute for 60" High Enlight (8)	11-9/32 [287]	14-21/32 [372]	100-29/32 [2,565]	12 [305]



- Order at same time as the fireplace to ensure fireplace is built with the VIC attached during production.
- VIC fits inside of framing.

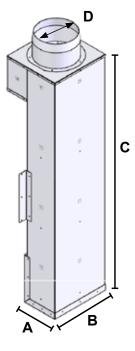


Figure 9A

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9- VENTING OPTIONS

B. OPTIONAL UNIVERSAL EXHAUST IN AIR-INTAKE LOUVER

MODEL	UNITS	USE
LOUVER-8	3', 4' & 5'	Exhaust Only
LOUVER-10	3', 4' & 5'	Air-Intake
LOUVER-10	6', 7'	Exhaust and Air-Intake
LOUVER-10	8'	Exhaust Only
LOUVER-12	8'	Air-Intake ONLY

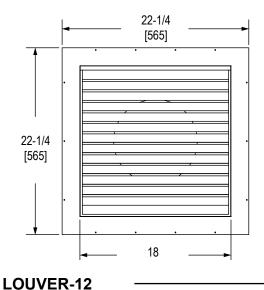
- This kit is an optional method of terminating the fresh air and/or exhaust for the appliance.
- Exhaust terminations must be installed with an inline powervent.
- Follow the complete installation instructions provided with the louver kit.





LOUVER-8 & LOUVER-10

inches [mm]



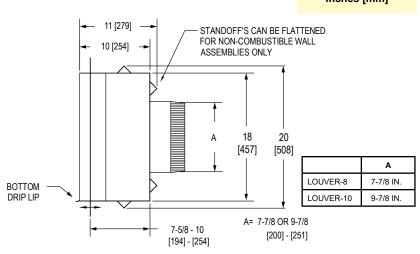
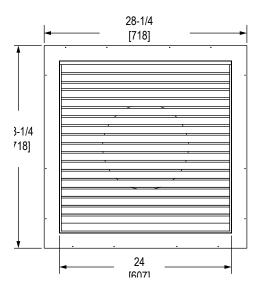


Figure 9B.2

AIR-INTAKE ONLY



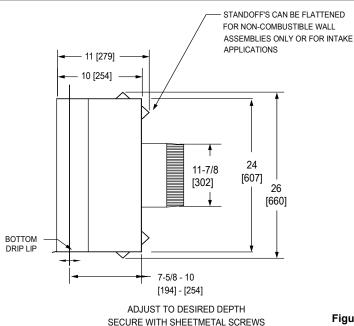
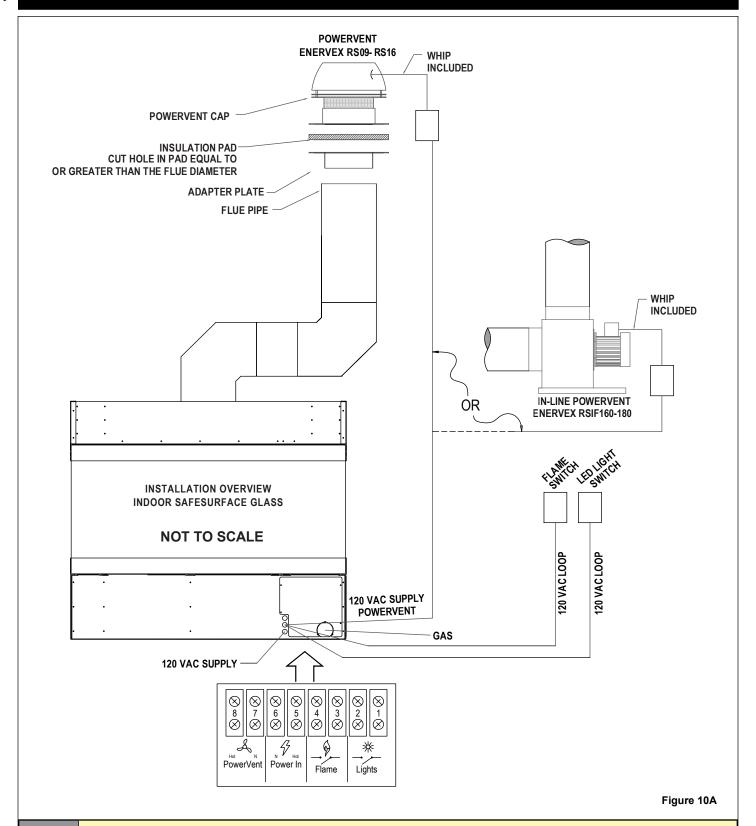


Figure 9B.3



For Tethered Control Panel Refer To Section 10 (D, E.1 & E.2)

A. ELECTRICAL INSTALLATION OVERVIEW



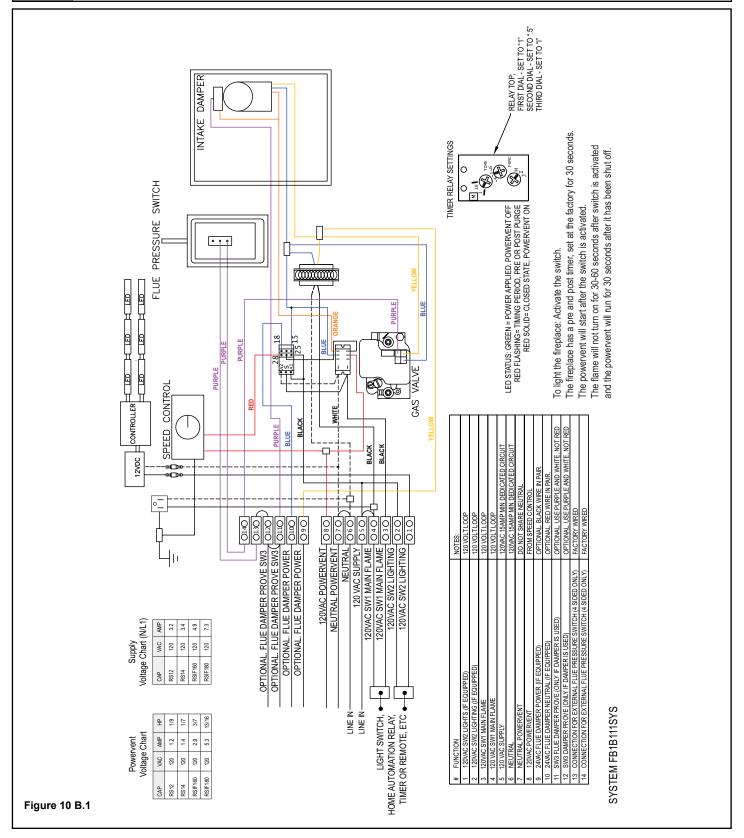
NOTE FOR THE ELECTRICIAN: FIELD WIRING SHOULD BE LABELED FOR EASY IDENTIFICATION.

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B.1. ELECTRICAL WIRING SCHEMATIC - TROUBLESHOOTING

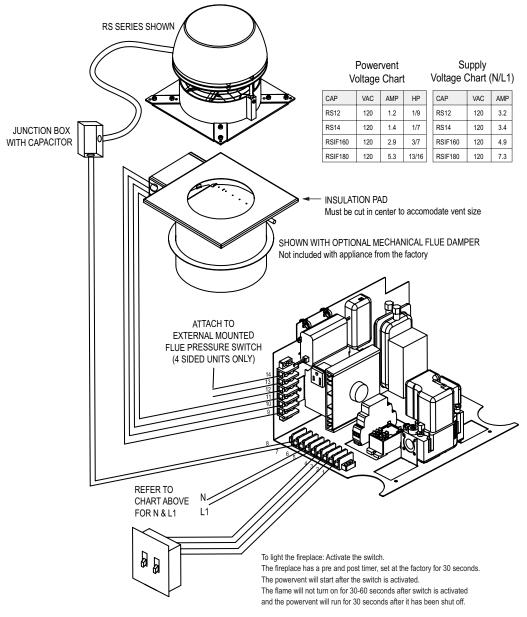


NOTE: The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, Part 1, CSA C22.1.



B.2 ELECTRICAL WIRING SCHEMATIC - FIELD

WIRE THE FIREPLACE TO A 15 AMP MIN DEDICATED CIRCUT. SEE TERMINALS #5 & #6.



#	FUNCTION	NOTES:
1	120 VAC SW2 LIGHTS (IF EQUIPPED)	120 VOLT LOOP
2	120VAC SW2 LIGHTS (IF EQUIPPED)	120 VOLT LOOP
3	120VAC SW1 MAIN FLAME	120 VOLT LOOP
4	120 VAC SW1 MAIN FLAME	120 VOLT LOOP
5	120 VAC SUPPLY	CONNECT TO CONSTANT POWER SOURCE
6	NEUTRAL	CONNECT TO CONSTANT POWER SOURCE
7	NEUTRAL POWERVENT	DO NOT SHARE NEUTRAL
8	120VAC POWERVENT	FROM SPEED CONTROL
9	24VAC FLUE DAMPER POWER	OPTIONAL
10	24VAC FLUE DAMPER NEUTRAL	OPTIONAL
11	SW3 FLUE DAMPER PROVE	OPTIONAL. USE PURPLE AND WHITE, NOT RED
12	SW3 DAMPER PROVE	OPTIONAL. USE PURPLE AND WHITE, NOT RED
13	CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)	FACTORY WIRED
14	CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)	FACTORY WIRED

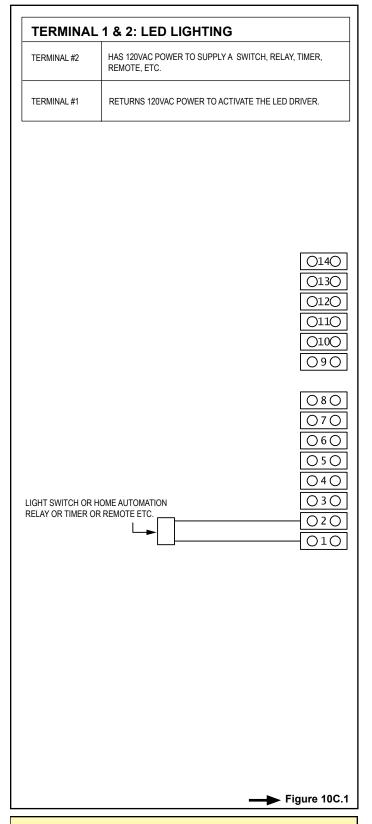
SYSTEM A - LIGHTS

Figure 10B.2

B.3 JUNCTION BOX & CAPACITOR

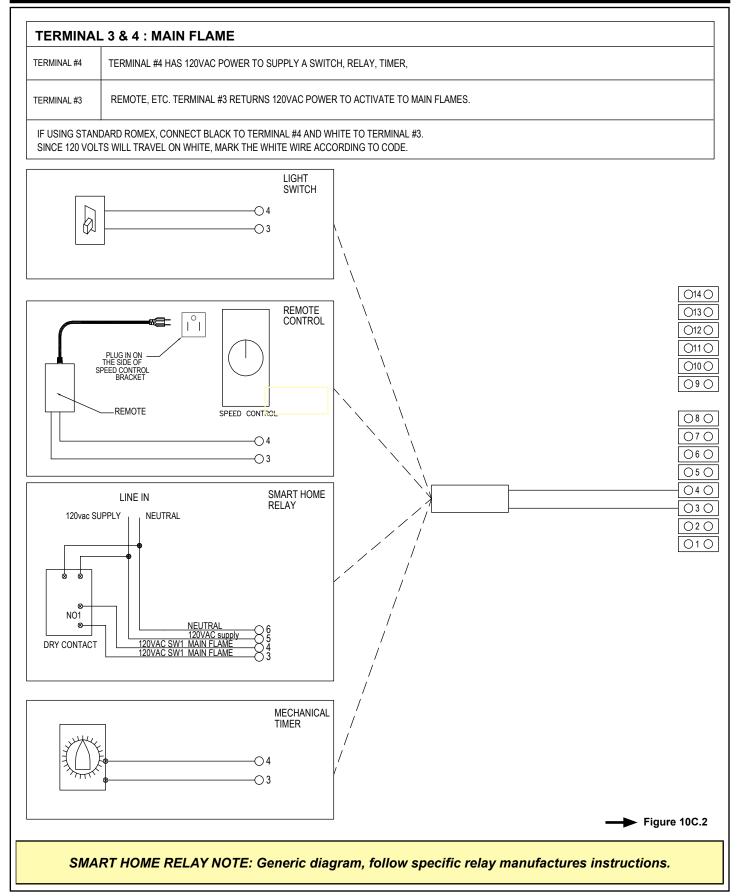
DO NOT DISCARD JUNCTION BOX - CAPACITOR INSIDE JUNCTION BOX PRE-WIRED FROM STELLAR CONNECT TO WIRE FROM TERMINAL #8 ON FIREPLACE CAPACITOR CONNECT TO WIRE FROM TERMINAL #7 ON FIREPLACE TO FIREPLACE TO FAN WIRE COMING FROM TERMINAL #8 ON FIREPLACE WIRE COMING FROM TERMINAL #7 ON FIREPLACE TO FIREPLACE JUNCTION BOX **WIRING FROM ENERVEX** Figure 10B.3

C.1 TERMINALS 1 & 2 - LED LIGHTING



NOTE FOR THE ELECTRICIAN:
FIELD WIRING SHOULD BE LABELED
FOR EASY IDENTIFICATION.

C.2 TERMINALS 3 & 4 - MAIN FLAME

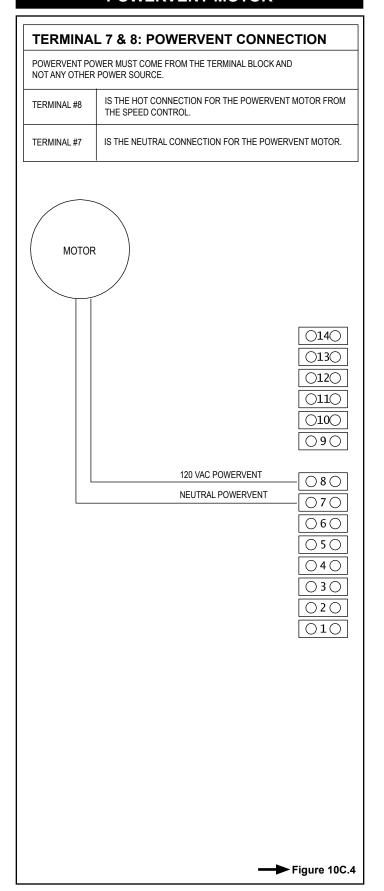


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C.3 - TERMINALS 5 & 6 FIREPLACE POWER

TERMINAL 5 & 6: FIREPLACE POWER GROUND - LOCATE THE GREEN WIRE CLUSTER CONNECT THE GREEN WIRE TAIL TO BUILDING GROUND IS THE 120VAC POWER SUPPLY FOR THE FIREPLACE. THIS IS A TERMINAL #5 CONSTANT POWER SUPPLY AND SHOULD NOT BE SWITCHED. A SERVICE DISCONNECT MAY BE DESIRED. TERMINAL #6 IS THE NEUTRAL CONNECTION 0140 0130 O12O 0110 $\bigcirc 10\bigcirc$ 090 080 070 060 LINE IN O5O040 \bigcirc 3 \bigcirc O2O010 Figure 10C.3 WIRE THE FIREPLACE TO A 15 AMP MIN DEDICATED CIRCUT.

C. 4 - TERMINALS 7 & 8 POWERVENT MOTOR

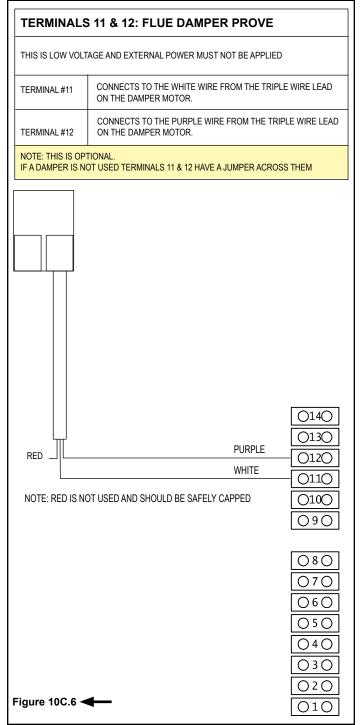


C.5 - TERMINALS 9 & 10 FLUE DAMPER CONNECTION

TERMINALS 9 & 10: FLUE DAMPER CONNECTION

THIS IS LOW VOLTAGE AND EXTERNAL POWER MUST NOT BE APPLIED IS THE NEUTRAL CONNECTION FOR THE DAMPER MOTOR. TERMINAL #9 BLACK WIRE. IS THE HOT CONNECTION FOR THE DAMPER MOTOR. TERMINAL #10 RED WIRE. NOTE: THIS IS OPTIONAL. IF A DAMPER IS NOT USED DO NOT CONNECT ANYTHING TO TERMINALS 9 & 10. 0140 0130 $\bigcirc 12\bigcirc$ 0110 24 VAC DAMPER MOTOR - RED $\bigcirc 10\bigcirc$ NEUTRAL DAMPER MOTOR - BLACK 090 080 070 \bigcirc 6 \bigcirc O5O040 \bigcirc 3 \bigcirc 020 Figure 10C.5

C. 6 - TERMINALS 11 & 12 **FLUE DAMPER PROVE**



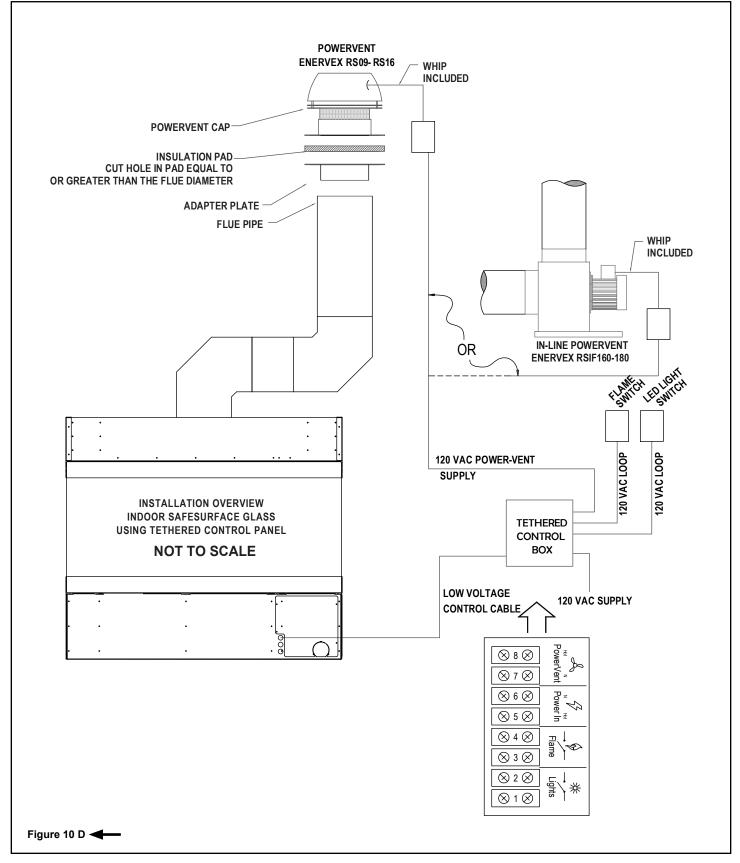
Feet [Meters]					
Transformer Output	12 awg	14 awg	16 awg	18 awg	
40VA(W)	453 [138]	285 [86.9]	179 [54.56]	113 [34.4]	

010

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For Standard Electric Installation Refer To Seciton 10 (A.1 - C.6)

D. TETHERED CONTROL PANEL INSTALLATION OVERVIEW

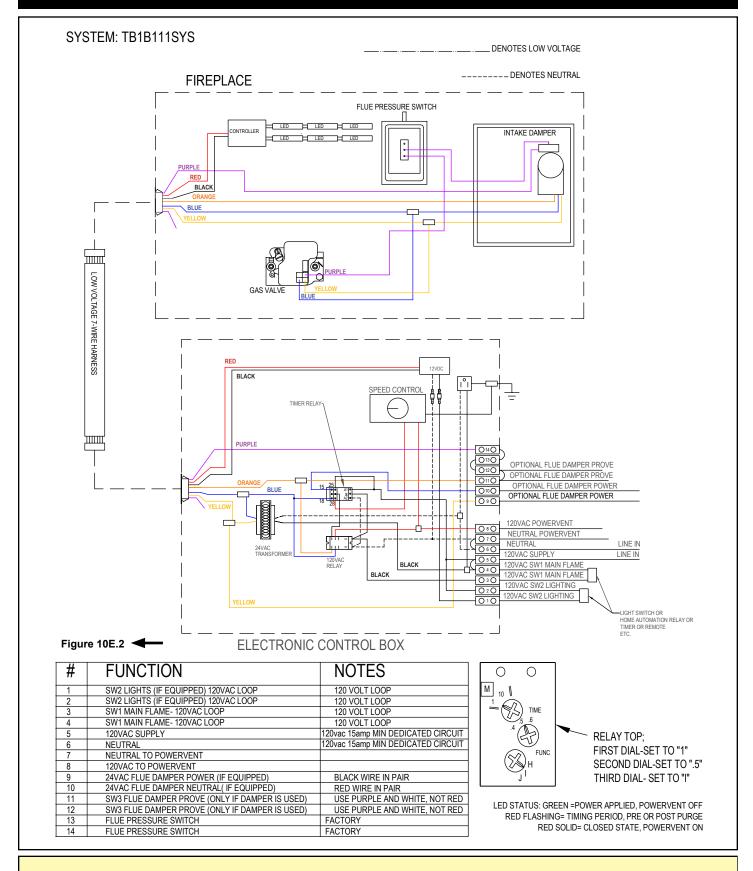


E.1 ELECTRICAL WIRING SCHEMATIC - FIELD WIRING

WIRE THE FIREPLACE TO A 15 AMP MIN DEDICATED CIRCUT. SEE TERMINALS #5 & #6. Powervent Supply Shown With Enervex RS Series Powervent Voltage Chart Voltage Chart (N/L1) and Optional Flue Damper CAP AMP VAC RS12 1.2 1/9 RS12 120 3.2 120 RS14 120 1.4 1/7 RS14 120 3.4 3/7 RS16 120 2.9 RS16 120 3.9 RSIF160 120 5.3 13/16 RSIF160 120 49 RSIF180 120 3.9 1/3 RSIF180 120 7.3 Refer back to Section 10 (A.2) for Junction Box and Capacitor Wiring Details Control Enclosure Optional Flue Damper Low Voltage Harness Remove jumper ☐ To Fireplace between 11 and 12 and connect the damper proving switch purple and white 66 To light the fireplace: Activate the switch. Figure 10E.1 The fireplace has a pre and post timer, set at the factory for 30 seconds The powervent will start after the switch is activated. The flame will not turn on for 30-60 seconds after switch is activated System C - Lights and the powervent will run for 30 seconds after it has been shut off. **FUNCTION** 120 VOLT LOOP 120 VAC SW2 LIGHTING - IF EQUIPPED 120 VAC SW2 LIGHTING - IF EQUIPPED 120 VOLT LOOP 120VAC SW1 MAIN FLAME 120 VOLT LOOP 120 VOLT LOOP 4 120 VAC SW1 MAIN FLAME 120 VAC SUPPLY CONNECT TO CONSTANT POWER SOURCE 5 CONNECT TO CONSTANT POWER SOURCE 6 NEUTRAL DO NOT SHARE NEUTRAL NEUTRAL POWERVENT FROM SPEED CONTROL 8 120VAC POWERVENT 24VAC FLUE DAMPER POWER OPTIONAL 10 24VAC FLUE DAMPER NEUTRAL OPTIONAL 11 SW3 FLUE DAMPER PROVE OPTIONAL. USE PURPLE AND WHITE, NOT RED SW3 DAMPER PROVE OPTIONAL. USE PURPLE AND WHITE, NOT RED 12 CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY) FACTORY WIRED CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY) FACTORY WIRED

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E.2 ELECTRICAL WIRING SCHEMATIC - TROUBLESHOOTING



REFER BACK TO STANDARD ELECTRIC TERMINAL SCHEMATICS IN SCTION 10 (C.1-C.6).

11 - FINISHING

A.1 FINISHING THE WALL - USING THE PROVIDED 1/2" STANDOFFS



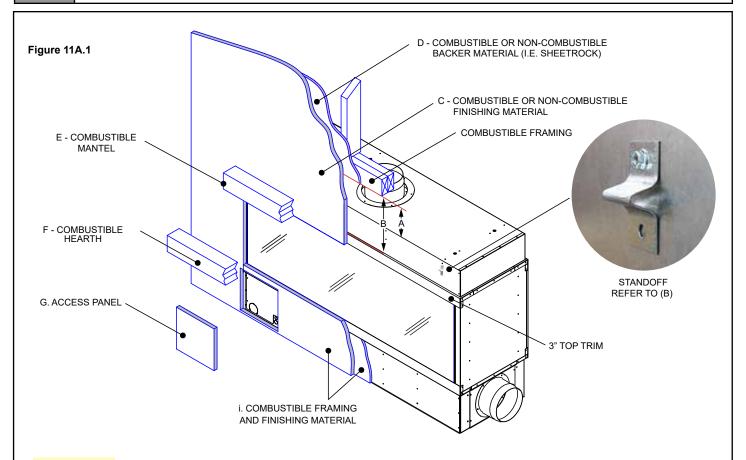
NOTE: REFER TO DIMENSIONS SECTION FOR ALLOWABLE FINISHING DIMENSIONS REQUIRED TO FIT THE GLASS PANELS INTO THE FIREPLACE. FINISHING MATERIALS MUST NOT OVERLAP THE DIMENSIONS HIGHLIGHTED IN GREEN ON PAGE 5. NEVER COVER THE GLASS WITH FINISHING MATERIALS.



NOTE: <u>DO NOT</u> PIERCE ANY OF THE BLACK PAINTED SURFACES WITH SCREWS, RIVETS, ETC. THIS INCLUDES THE 3" [76mm] BLACK TOP AND BOTTOM GLASS TRIM AND ANY PAINTED SIDES ADJACENT TO THE GLASS.



NOTE: REFER TO MANTEL REQUIREMENTS: NON-COMBUSTIBLE ZONE USING PROVIDED 1/2" [13mm] STANDOFFS FOR MORE INFORMATION.



inches [mm]

A. No combustible materials may be within 6 [152] of the top of the fireplace.

B. 1/2 [13] CLEARANCE TO COMBUSTIBLES ON SURFACE.

The fireplace ships with hood standoffs in place to ensure a 1/2 [13] clearance to combustibles is maintained on the surface. See Figure 10A.1. If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2 [13] minimum thickness must be used in the space* between the top of the 3 [76] trim to the combustible framing the full width of the fireplace. The space* includes a 7 [178] minimum above the top of the fireplace that is recommended for ease of attachment.

- *= 15 [381] for 3'-7' units and 19 [483] for 8' units. See Figure 10A.2
- C. Combustible material may cover the non-combustible area mentioned in B.
- D. Combustible finishing materials allowed.
- E. Combustible mantel may be placed above the top of the glass viewing area. There are no restrictions on mantel depth.
- F. Combustible hearth may be placed below the bottom of the glass viewing area.
- G. Flat covers will cover the components access. Gas and electric inlets are located behind this panel. There are four access panel options all located on the pilot side of the fireplace; front (shown above), side, back and inside behind the glass.

Please take consideration of which option will be used to access the components for service later during planning.

I. Combustible framing and finishing materials allowed.

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11 - FINISHING

A.2 FINISHING THE WALL - NOT USING THE PROVIDED 1/2" STANDOFFS



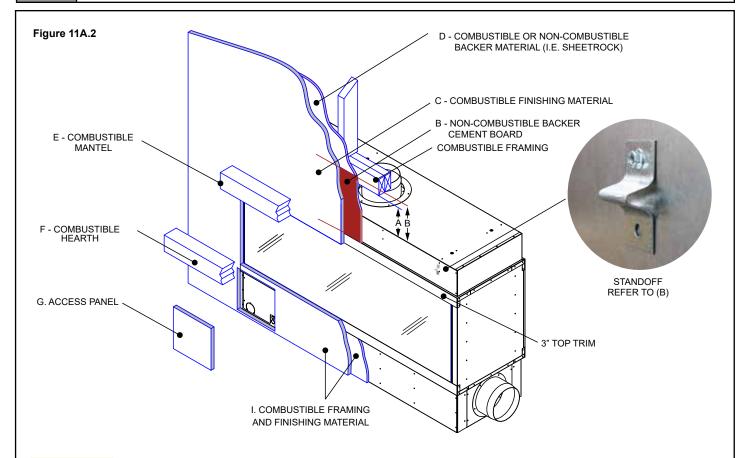
NOTE: REFER TO DIMENSIONS SECTION FOR ALLOWABLE FINISHING DIMENSIONS REQUIRED TO FIT THE GLASS PANELS INTO THE FIREPLACE. FINISHING MATERIALS MUST NOT OVERLAP THE DIMENSIONS HIGHLIGHTED IN GREEN ON PAGE 5. NEVER COVER THE GLASS WITH FINISHING MATERIALS.



NOTE: <u>DO NOT</u> PIERCE ANY OF THE BLACK PAINTED SURFACES WITH SCREWS, RIVETS, ETC. THIS INCLUDES THE 3" [76mm] BLACK TOP AND BOTTOM GLASS TRIM AND ANY PAINTED SIDES ADJACENT TO THE GLASS.



NOTE: REFER TO MANTEL REQUIREMENTS: NON-COMBUSTIBLE ZONE USING PROVIDED 1/2" [13mm] STANDOFFS FOR MORE INFORMATION.



inches [mm]

A. No combustible materials may be within 6 [152] of the top of the fireplace.

B. 1/2 [13] CLEARANCE TO COMBUSTIBLES ON SURFACE.

The fireplace ships with hood standoffs in place to ensure a 1/2 [13] clearance to combustibles is maintained on the surface. See Figure 10A.1. If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2 [13] minimum thickness must be used in the space* between the top of the 3 [76] trim to the combustible framing the full width of the fireplace. The space* includes a 7 [178] minimum above the top of the fireplace that is recommended for ease of attachment. *= 15 [381] for 3'-7' units and 19 [483] for 8' units. See Figure 10A.2

- C. Combustible material may cover the non-combustible area mentioned in B.
- D. Combustible finishing materials allowed.
- E. Combustible mantel may be placed above the top of the glass viewing area. There are no restrictions on mantel depth.
- F. Combustible hearth may be placed below the bottom of the glass viewing area.
- G. Flat covers will cover the components access. Gas and electric inlets are located behind this panel. There are four access panel options all located on the pilot side of the fireplace; front (shown above), side, back and inside behind the glass.

Please take consideration of which option will be used to access the components for service later during planning.

I. Combustible framing and finishing materials allowed.

12 - LIGHTING & SHUTDOWN

FOR YOUR SAFETY - READ BEFORE LIGHTING



STOP: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

DUE TO HIGH SURFACE TEMPERATURES, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air. It is important to make sure the termination cap remains unobstructed at all times from snow, ice, leaves or other debris.

- This fireplace is equipped with an ignition device which automatically lights the pilot and main burner.
 The pilot and burner light automatically with the wall switch. DO NOT try to light the pilot by hand. Before lighting this fireplace, follow these instructions exactly.
- BEFORE LIGHTING, smell all around the appliance for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- 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 which has been under water.

WHAT TO DO IF YOU SMELL GAS:

- Do not touch any electrical switches
- Do not try to light any appliance
- · Do not use the 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

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE



NOTE: A PAINT SMELL WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING.



NOTE: 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.

A. LIGHTING THE FIREPLACE

To light the fireplace:

Activate the switch.

The fireplace has a pre and post timer, set at the factory for 30 seconds.

The powervent will start after the switch is activated.

The flame will not turn on for 30-60 seconds after switch is activated.

The powervent will run for 30 seconds after the fireplace has been shut off.

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12 - LIGHTING & SHUTDOWN



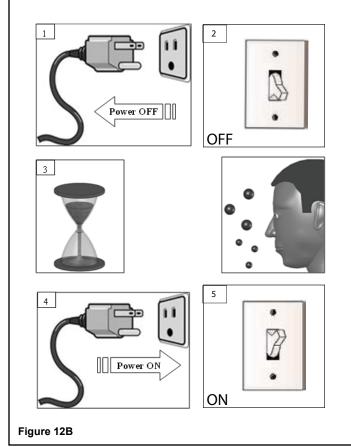
STOP! Read safety information on previous page and front cover of this manual before continuing.



NOTE: This fireplace is equipped with an ignition device which automatically lights the pilot. DO NOT try to light the pilot by hand.

B. IF THE FIREPLACE DOES NOT LIGHT

- 1. Turn off the fireplace at switch.
- 2. Turn off all electrical power to fireplace.
- Wait five (5) minutes to allow any gas that may have accumulated inside firebox to escape. If you then smell gas, STOP! Follow safety information on front cover and on previous page of the installation manual. If you don't smell gas, go to next step.
- 4. Turn ON all electrical power to fireplace.
- 5. Turn fireplace on at switch.





CAUTION: If fireplace will not operate, follow instructions TURNING OFF GAS TO FIREPLACE and call your service technician or the gas supplier.



NOTE: When fireplace is initially lit, condensation may appear on the glass; this is normal in all gas fireplaces and will disappear after several minutes.

13 - PRESSURE TESTING



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.



NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than $\frac{1}{2}$ psi (3.5 kPa).

INLET PRESSURE TEST

- 1. The valve has an Allen-plug on the inlet and outlet.
- 2. Install a barb fitting on the tap you want to measure.
- 3. Light the fireplace, check the pressure.
- 4. Turn off fireplace; reinstall plug.
- Check for leaks.



CAUTION: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION



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

14 - FINALIZING THE INSTALLATION

A. INSTALLING THE MEDIA

Figure 14A

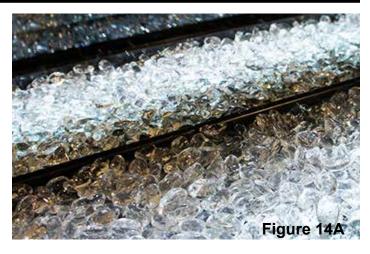
Place the supplied glass media into the base tray.

Cover the base evenly. Do not use more than the supplied amount.

Do not get any glass media into the pilot area; a hazardous condition could result!

You should be able to see the top line of the burner through the media.

DO NOT COVER THE BURNERS; POOR FLAME APPEARANCE WILL RESULT.



NOTE: DO NOT SUBSTITUTE THE SUPPLIED MEDIA WITH ANY OTHER KIND OF MEDIA WITHOUT WRITTEN APPROVAL OF Stellar by Heat&Glo.

B. FLAME APPEARANCE

Flame appearance is affected by several factors including altitude, venting configuration and fuel quality. Although the venturi setting has been factory set, adjustments may be necessary for optimal performance and visual aesthetics.

When fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during first 15 minutes of operation. If flames remain blue, or become dark orange with evidence of sooting (black tips), the burner tube venturi may need adjustment. Contact Stellar Hearth.

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15 - MAINTENANCE

The appliance is required to be inspected at least once a year by a professional service person. The compartment below firebox (behind lower access panel) must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative that the burner be cleaned once a year.

VALVE AND ELECTRICAL ACCESS

There is an access panel under the floor of the firebox should more extensive service be needed. Remove the inner and outer glass panels. Remove the glass media on the end with the pilot. The end floor lifts out; remove the screws and lift it out. If the LED's are mounted on a "U" shaped steel bracket, loosen the bracket and flip the LED's over the burner. There is a panel covering the valve area. Remove the screws and lift the panel up and out to expose the valve area.



NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

A. VENT SYSTEM

- · Annual examination of venting system by a qualified agency is required.
- IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALL ATION
- The flow of combustion air must not be obstructed.

B. GLASS CLEANING & REPLACEMENT



WARNING! RISK OF INJURY! DO NOT remove glass until it is cooled to room temperature. Glass breakage could occur. See Section 6 for glass installation and removal instructions.

- · Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this fireplace with glass/frame assembly removed, cracked or broken.
- · The glass assembly shall only be replaced as a complete unit.
- Replacement of glass & frame assembly, must only be performed by a licensed or qualified service person.
- DO NOT SUBSTITUTE MATERIALS.
- · Do not strike or slam glass door assembly.



NOTE: IN CASE OF CHIPPED OR BROKEN GLASS

Due to the size and sensitivity of shipping the glass separately, it is best to have the replacement glass cut locally if needed. Refer to Section 16- Replacement Parts for more information.



CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING. KEEP APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS.

16 - REPLACEMENT PARTS

IMPORTANT: REPLACEMENT PARTS

Parts must be ordered from a dealer or distributor.

Hearth & Home Technologies does not sell directly to consumers.

Provide model number and serial number when requesting service parts from your dealer or distributor.

A. REPLACEMENT PARTS LIST

PART	PART NUMBER
Gas Valve - 3' - 7' Units	SV9501
Gas Valve - 8' Units	SV9601
Pilot Assembly	112-5000
Pilot Tube	16400-2851
Replacement Ignitor	B13M-1D643C
Orifice, NG #43	16400-2043
Orifice, Propane #55	16400-2055
Vacuum Switch	112-5003
Transformer, 24 VAC	112-5002
Timer Relay	112-5014
Solid State Relay	112-5009
Speed Control, 10 AMP	16400-4000

PART	QUANTITY
Ships standard with Crystal Clear unless otherwise specified. See your dealer for other glass media or natural stone options.	Varies by model size 3' = 40 lbs 4' = 50 lbs 5' = 60 lbs 6' = 70 lbs 7' = 80 lbs 8' = 90 lbs

PART	PART NUMBER	
Natural Gas to Propane Gas Conversion Kit - All Sizes	NG2LP	
Propane Gas to Natural Gas Conversion Kit - All Sizes	LP2NG	

PART	PART NUMBER
Enervex Chimney Fan used for 3' - 5' units	RS12
Enervex Chimney Fan used for 6' - 8' units	RS14
Enervex In-line Chimney Fan used for 3' - 5' units	RSIF160
Enervex In-line Chimney Fan used for 6' - 8' units	RSIF180

PART	PART NUMBER
8 Inch Exhaust Collar - 3'-5' Units	16400-1450
10 Inch Intake/Exhaust Collar - 6'-7' Units	16400-1550
12 Inch Intake Collar - 8' Units	16800-1550
LED Controller	16400-1901
LED Remote Control	16400-1901R
LED Transformer, 12VDC	16400-1900
Switch, 15 Amp Toggle	16400-3013
2-Gang Electrical Box	16400-3014
White Nylon 2-Gang Plate	16400-3015
Suction Cup	675-9605
8 Inch Powervent Chimney Collar	117-001
10 Inch Powervent Chimney Collar	117-002

PART	PART NUMBER	
Replacement Capacitor - RS12	601.0400.0064	
Replacement Capacitor - RS14	604.0400.0064	
Replacement Capacitor - RSIF160	604.0600.0064	
Replacement Capacitor -RSIF180	604.0800.0064	

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16 - REPLACEMENT PARTS

B. GLASS SIZE AND SPECIFICATIONS - FRONT (LONG PANEL)

NOTE: IN CASE OF CHIPPED OR BROKEN GLASS

Due to the size and sensitivity of shipping the glass separately, it is best to have the replacement glass cut locally if needed using the specifications listed here or have your local dealer assist you with contacting Stellar by Heat&Glo directly for more information.

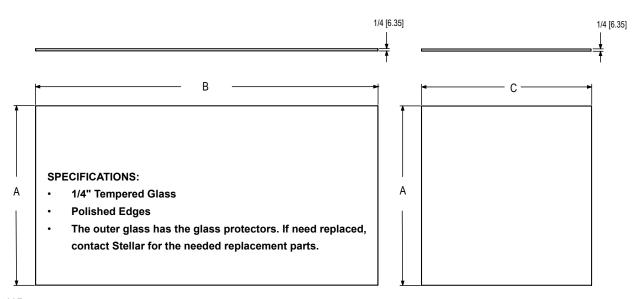


Figure 16B

LONG - FRONT PANELS				SHORT - END PANEL				
MODEL	B.	O.T.\	B.	QTY	C.	QTY	C.	QTY
	OUTER WIDTH	QTY	INNER WIDTH		OUTER WIDTH		INNER WIDTH	
3'	39-1/4 [997]	2	37-1/16 [941]	2	23-5/16 [592]	1	18-15/16 [481]	1
4'	51-1/4 [1,302]	2	49-1/16 [1,246]	2	23-5/16 [592]	1	18-15/16 [481]	1
5'	63-1/4 [1,607]	2	61-1/16 [1,551]	2	23-5/16 [592]	1	18-15/16 [481]	1
6'	75-1/4 [1,911]	2	73-1/16 [1856]	2	23-5/16 [592]	1	18-15/16 [481]	1
7'	87-1/4 [2,216]	2	85-1/6 [2,161]	2	23-5/16 [592]	1	18-15/16 [481]	1
8'	99-1/4 [2,521]	2	97-1/16 [2,465]	2	23-5/16 [592]	1	18-15/16 [481]	1

INNER & OUTER GLASS BOTH				
Model A. HEIGHT				
20"	21-5/8 [549]			
24"	25-5/8 [651]			
30"	31-5/8 [803]			
36"	37-5/8 [956]			
48"	49-5/8 [1,260)			
60"	61-5/8 [1,565]			

inches [mm]

16- REPLACEMENT PARTS

C. GLASS TRIM PIECES IDENTIFICATION

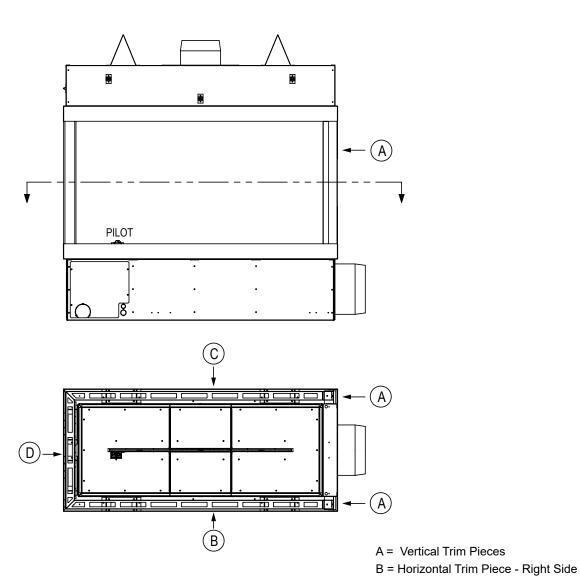


Figure 16.C

A. Vertical Trim Model Height Part # Qty 3PR-20GL SRV16400-1433 2 3PR-24GL SRV16400-1033 2 3PR-30GL SRV16400-1633 2 3PR-36GL SRV16400-1833 2 3PR-48GL SRV16400-1533 2 3PR-60GL SRV16400-1933 2 8PR-60GL SRV16400-1933 2

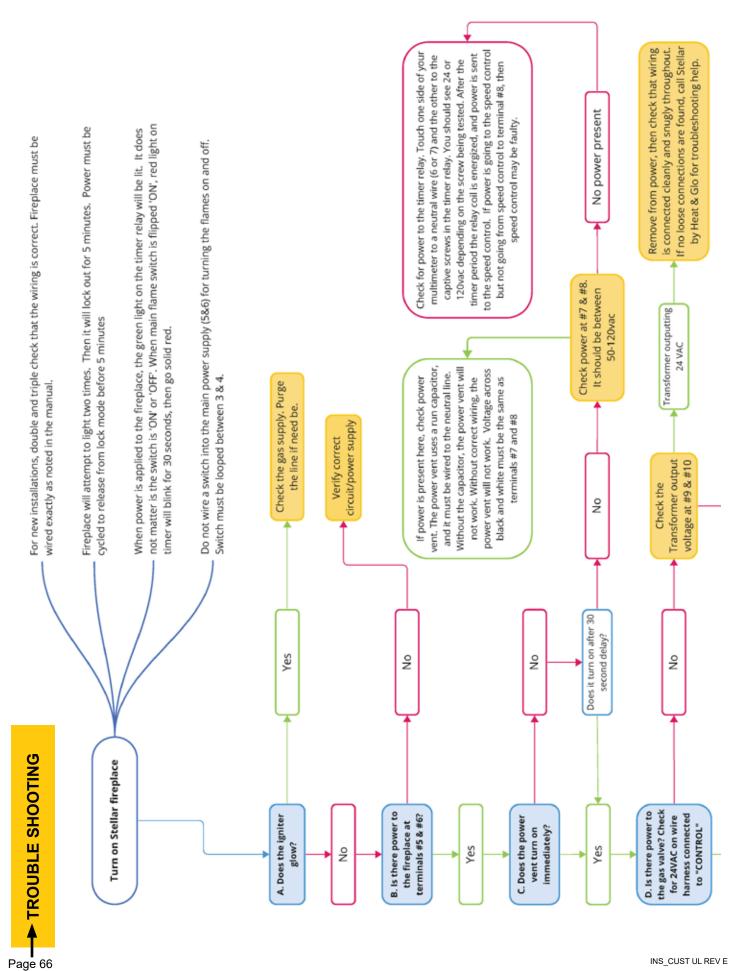
Model	Horizontal Trim P B. RIGHT SID		Horizontal Trim Pieces C. LEFT SIDE		Horizontal Trim Pieces D. Between Glass - End	
Height	Looking At Fro					
	Part #	Qty	PART#	Qty	Part #	Qty
3'	SRV16300-1344	1	SRV16300-1244	1	SRV16400-1045	1
4'	SRV16400-1344	1	SRV16400-1244	1	SRV16400-1045	1
5'	SRV16500-1344	1	SRV16500-1244	1	SRV16400-1045	1
6'	SRV16600-1344	1	SRV16600-1244	1	SRV16400-1045	1
7'	SRV16700-1344	1	SRV16700-1244	1	SRV16400-1045	1
8'	SRV16800-1344	1	SRV16800-1244	1	SRV16400-1045	1

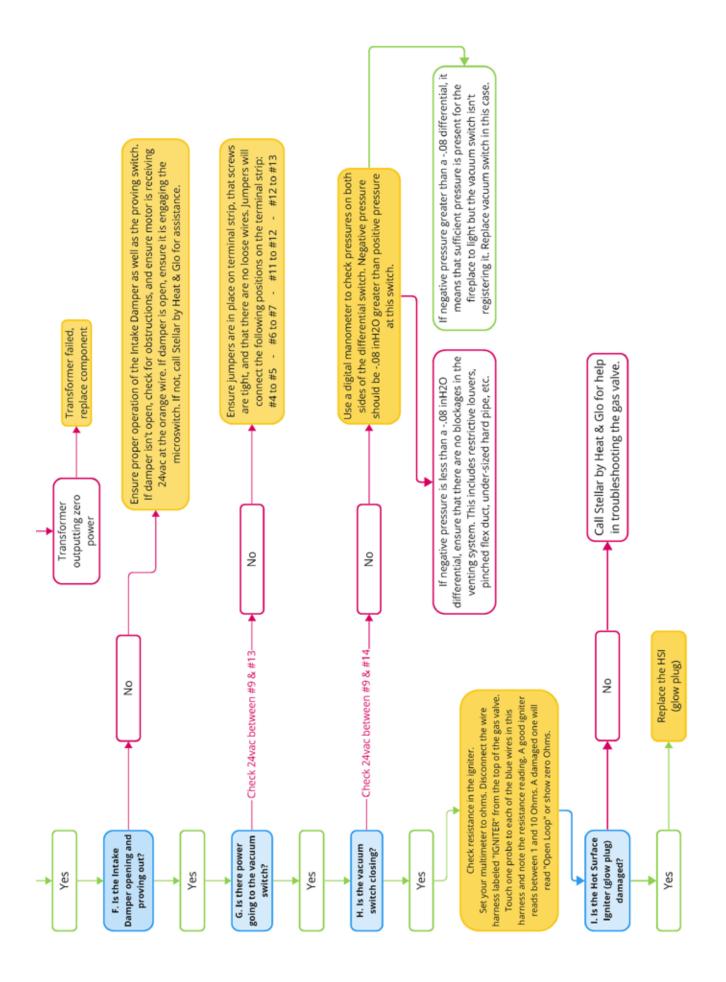
C = Horizontal Trim Piece - Left Side D = Horizontal Trim Piece - End

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17 - SERVICE & MAINTENANCE HISTORY

	Service & Maintenance History	Provided By
Date:	Description of Service	Name







3 in 1 LED Controller (2.4G) Instruction Manual

Contents

Product features	2
Set up output mode	3
Compatible with remote	3
2.4G RF remote control instruction	1-7
Link / Unlink Instructions	. 4
Auto transmitting & Synchronization	5
Dynamic mode table selection	5
PWM frequency switching	. 6
"Do Not Disturb" mode is activated and shut down	. 7
DMX512 LED transmitter control instruction	8
Attention	9

Product features

Made by new 2.4GHz wireless transmitting technology with low power consumption, strong ability to build network automatically and anti-interference. with MiBoxer 2.4GHz gateway to get wireless dimming color, remote control, timing control, group control, music rhythm function. Support 2.4G RF remote control.



16 Millions of colors to choose



Color temperature adjustable



Dim brightness / Saturation



2.4G RF wireless transmission technology



Remote control distance 30m



Auto-transmitting & Synchronization



Support Smartphone app control (2.4GHz gateway is needed)



Support third party voice control (2.4GHz gateway is needed)



DMX512 controllable

(Only for RGB+CCT output mode DMX512 LED transmitter is needed)

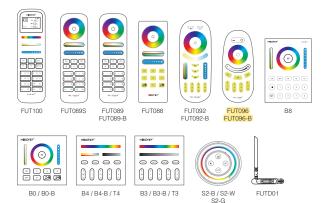
Set up output mode

Set up correct output mode based on the feature of lights
Setting method: Press "SET" button continuously to switch output mode (attention: it will log out without operation within 3 seconds)

Output mode sheet (confirm output mode based on color of indicator)

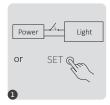
Indicator color Red Light		Green Light	Blue Light	
Output	RGB	RGBW	RGB+CCT	

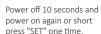
Compatible with these 2.4G RF remote controls (Purchased separately)



2.4G RF Remote control instruction

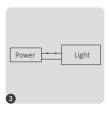
1). Linking Code Instructions







Short press " I " button 3 times within 3 seconds.

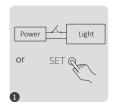


Lights blink 3 times slowly means linking is done successfully.



Linking failed if light is not blinking slowly, Please follow above steps again. (Note: Light that have linked can't link again)

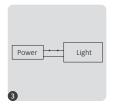
2). Unlinking Code Instructions



Power off 10 seconds and power on again or short press "SET" one time.



Short press " I " button 5 times within 3 seconds.



Lights blink 10 times quickly means unlinking is done successfully.



Unlinking failed if light is not blinking quickly, Please follow above steps again. (Note: Light haven't linked that don't need to unlink)

3). Auto transmitting & Synchronization (only for remote control)

Remote signal auto transmitting

One light can transmit the signals from the remote control to another light within 30m, as long as there is a light within 30m, the remote control distance can be limitless

Dynamic modes auto synchronization

Multi lights can synchronize if they are in same dynamic mode and linked with same remote (distance between each light is within 30m)



4). Dynamic mode table selection (only for remote control)

Select dynamic mode table 1:

While the light is in static mode, short press "S+" button 5 times quickly until blue light flashes 3 times slowly, static mode is activated successfully.

Select dynamic mode table 2:

While the light is in static mode, short press " **S-**" button 5 times quickly until yellow light flashes 3 times slowly, static mode is activated successfully.

Dynamic mode table 1 (default)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	Adjustable
6	American	
7	Fat Tuesday	
8	Party	
9	Slow Color Splash	

Dynamic mode table 2 (need to switch manually)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Seven colors gradual change	
2	White light Gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	Adjustable
6	Red light gradual change +Flash 3 times	
7	Green light gradual change +Flash 3 times	
8	Blue light gradual change +Flash 3 times	
9	White light gradual change +Flash 3 times	

5). PWM high frequency / low frequency switching (only for remote control)

Switch to high frequency (16KHz):

Press "OFF" button 1 time within three seconds and press "ON" button 5 times, Activated successfully once led light flashes 2 times quickly.

Switch to low frequency (250Hz):

Press "ON" button 1 time within three seconds and press "OFF" button 5 times, Activated successfully once led light flashes 2 times slowly.

6). "Do Not Disturb" mode is activated and shut down (default activated)

Turn on "Do Not Disturb" mode (wide using in the area which have power failure frequently to save energy)

2.4G RF Remote turn on and turn off instruction

Turn on "Do Not Disturb" mode:

Press "OFF" button three times within three seconds and press "ON" button three times, Activated successfully once led light flashes four times quickly.

Attention: Do not disturb mode is activated

- When the light is OFF status (For example: Use app or remote to turn off light)
 The light is OFF status once you turn off power and turn on again.
 (User must turn off and turn on power twice times to activate light or use APP / remote to activate light)
- 2. When the light is ON status

The light is ON status once you turn off and turn on power one time.

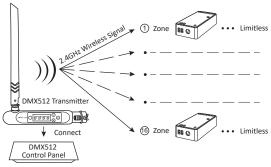
Turn off "Do Not Disturb" mode:

Press "ON" button three times within three seconds and press "OFF" button three times, closed successfully once led light flashes four times slowly.

Attention: The light will be always "ON" status if you turn on and turn off power once user closed "Do Not Disturb" mode.

DMX512 LED Transmitter Control (Purchased separately)

Only for RGB+CCT output mode



DMX512 LED Transmitter Link/Unlink

Follow instruction of DMX512 transmitter (FUTD01), Choose the zone for the light by pressing "+" or "-" (e.g. "CH12" means zone 12)







Link

The controller is powered off for 10 seconds and then powered on, or press "SET" button 1 time.

Short press "" 3 times within 3 seconds while the indicator of controller is ON

Link is done once indicator of controller flashes 3 times slowly

Unlink

The controller is powered off for 10 seconds and then powered on, or press "SET" button 1 time.

Short press " 5 times within 3 seconds while the indicator of controller is ON Unlink is done once indicator of controller flashes 10 times quickly



If the link or unlink failed, please follow the above steps again.

Attention

- 1. Please turn off power supply before installation.
- 2. Please ensure input voltage to be same as requirements from device.
- 3. Don't disassemble device if you are not expert, otherwise it will damage it.
- Please do not use the light in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.



Scan QR code to watch 2.4GHz series video instruction Or enter into following link directly https://miboxer.com/light/video/1pc_remote.html



Hearth & Home Technologies LLC LIMITED LIFETIME WARRANTY

Hearth & Home Technologies LLC ("HHT") extends the following warranty for HHT gas, wood, pellet and electric hearth appliances (each a "Product" and collectively, the "Product(s)") and certain component parts set forth in the table below ("Component Part(s)") that are purchased from a HHT authorized dealer or distributor.

WARRANTY COVERAGE:

HHT warrants that the Products and their Component Parts will be free from defects in materials and workmanship for the applicable period of Warranty coverage set forth in the table below ("Warranty Period"). If a Product or Component Parts are found to be defective in materials or workmanship during the applicable Warranty Period, HHT will, at its option, repair the applicable Component Part(s), replace the applicable Component Part(s), or refund the purchase price of the applicable Product(s). The maximum amount recoverable under this Warranty is limited to the purchase price of the Product. This Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer. This Warranty is subject to conditions, exclusions, and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins at the date of installation. In the case of new home constructions, Warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product(s) by an independent, authorized HHT dealer or distributor, whichever occurs earlier. However, the Warranty coverage shall commence no later than 24 months following the date of Product shipment from HHT, regardless of the installation or occupancy date.

The term "Lifetime" in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, 10 years from the beginning date of warranty coverage for wood and pellet appliances, and 5 years from the beginning of warranty coverage for standalone gas log sets. These time periods reflect the minimum expected useful lives of the designated Component Parts under normal operating conditions.

Warranty Period					HHT Manuf	actured Ap	pliances and Venting
Component Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Component Parts Covered by this Warranty
1 Ye	ear	x	x	x		x	All parts including handles, external enameled components and other material except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
2 Ye	ars				x		All parts except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
			X	Х			Igniters, Auger Motors, Electronic Components, and Glass
2 yea	ars	x					Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		Х			Molded Refractory Panels, Glass Liners
3 years			x				Firepots, burnpots, mechanical feeders/auger assemblies
5 yea	ars	х					Burners and logs for standalone gas log sets (Vented and Vent Free gas log sets not sold as components of the fireplace or stove)
5 years	1 year	x					Vent Free Burners and Vent Free Log components of HHT manufactured fireplaces or stoves
,	,		X	Х			Castings, Medallions and Baffles
6 years	3 years			Х			Catalysts
7 years	3 years		х	х			Manifold tubes, HHT Chimney and Terminations
10 years	1 year	Х					Burners, logs and refractory components of HHT manufactured fireplaces or stoves
Limited Lifetime	3 years	x	x	х			Firebox and heat exchanger, FlexBurn® System (engine, inner cover, access cover and fireback)
					I		
1 Year	None	X	X	Х	Х	Х	All purchased replacement parts

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WARRANTY CONDITIONS:

- Because HHT cannot control the quality of any Products sold by unauthorized sellers, this Warranty only covers Products that are purchased through an HHT authorized dealer or distributor unless otherwise prohibited by law; a list of HHT authorized dealers is available on the HHT branded websites.
- This Warranty is only valid while the applicable Product remains at the site of original installation.
- This Warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the applicable Product is authorized to sell applicable Product.
- Contact your installing distributor or dealer for Warranty service. If the installing dealer or distributor is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking Warranty service from a dealer other than the dealer from whom you originally purchased the applicable Product.
- No HHT consumer should bear cost of warranty service or costs incurred while servicing warranty claims (i.e., travel, gas, or mileage) when the service is performed within the terms of this Warranty. Check with your dealer or distributor in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this Warranty.

WARRANTY EXCLUSIONS:

This Warranty does not cover the following:

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

This warranty is void if:

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

LIMITATIONS OF REMEDIES AND LIABILITY:

• EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. The owner's exclusive remedy and HHT's sole obligation under this Warranty or in contract, tort or otherwise, shall be limited to replacement of the Component Part(s), repair of the Component Part(s), or refund of the original purchase price of the applicable Product(s), as specified above; provided, however, that (i) if HHT is unable to provide replacement of the Component Part(s) and repair of the Component Part(s) is not commercially practicable or cannot be timely made, or (ii) the customer is willing to accept a refund of the purchase price of the applicable Product(s), HHT may discharge all such obligations by refunding the purchase price of the applicable Product. In no event will HHT be liable for any incidental or consequential damages caused by defects in the applicable Product. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from State to State. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE FOR THE APPLICABLE PRODUCT. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

4021-645M 9/21 Page 2 of 2





ELECTRONIC IGNITION FIRE PIT INSERT







ElSeries

On/Off Models

Installation & Operation Instructions

Install Confidence.™



Hearth Products Controls Fire-inspired since 1975. 860-EI ON/OFF







This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.



WARNING: For Outdoor Use Only.

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



WARNING

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

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



DANGER

FIRE OR EXPLOSION HAZARD

If you smell gas:

- · Shut off gas to the appliance.
- Extinguish an open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.

Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.



DANGER



CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space

such as a camper, tent, car, or home.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

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- Hearth Products Controls Company recommends that our products are installed
 by professionals locally licensed by the authority having jurisdiction in gas piping.
 All installation instructions must be followed to ensure proper performance and
 safety. Hearth Products Controls Company assumes no responsibility for problems
 relating to the installation.
- To qualify for warranty, all instructions must be strictly followed. Otherwise, warranty may be void. Never alter product or configuration in any way.
- Annual servicing should be handled by professionals certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists or in Canada by WETT (Wood Energy Technical Training).
- It is the installer's responsibility to ensure a safe installation and to educate the end-user regarding the features, safety recommendations and proper operation of this product.
- Please reference page 1 for all warnings.

INSTALLER:

Leave this manual with the appliance.

END USER:

Retain this manual for future reference.

SELECT MODELS Certified to ANSI Z21.97-2014 CSA 2.41-2014



Technical Support

For information and support contact your Hearth Products Controls dealer.

Symbol Legend



This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.



Necessary instructions



Please reference page 1 for all warnings.

Important Safety Information for Installers

Leave this manual with the end-user and instruct them to retain it for future reference. Instructions and product updates are also available at **www.hpcfire.com** under the Support tab.

Installers must carefully follow the instructions in this manual to prevent personal injury or property loss. These instructions contain information critical to the safe installation and operation of the fire pit.

- Instructions are updated as needed. It is the responsibility of the installers to check for product updates and installation manual updates at www.hpcfire.com/ support.html prior to installation.
- It is the responsibility of the installer to follow:
 - The National Fuel Gas Code, ANSI Z223.1/NFPA 54 or International Fuel Gas Code.
 - Natural Gas and Propane Installation Code CSA B149.1 or CSA B149.2.
 - The National Electrical Code, ANSI/NFPA70. In Canada, Canadian Electrical Code CSA22.1.
 - Local codes
- **Control options:** Use of wall switch is required for safety shutoff with optional remote control (#578-C), automatic shutoff timer or whole house system.

Gas

- Only use the gas/fuel type specified for this fire pit, refer to the label on the fire pit control box. Never use an alternative fuel to include biofuel, ethanol, lighter fluid, or any other fuel.
- Gas pressure and type should be checked prior to use and installation.
 - Natural Gas Fire Pit: Supply Pressure: Minimum: 3.5 inches W.C.;
 Maximum: 7.0 inches W.C.
 - **LP Gas:** Supply Pressure: Minimum: 8.0 inches W.C.; Maximum: 11.0 inches W.C.

IMPORTANT If pressure is low, this will reduce flame height on HIGH setting, resulting in little to no flame variation.

- If not using supplied flex line, ensure any flex line that may be used from the permanent main fuel supply to the product is rated to the stated max BTU of the product and certified to ANSI Z21.75*CSA 6.27.
- The EI Series is not for use with small LP Tanks and must utilize permanent fixed piping for fuel supply.

Electrical

- Verify correct 120 VAC 1 amp or 24, 12 VAC 4-amp power supply. Only use the type specified for this fire pit. Refer to the label on the fire pit control box. All electronic applications should utilize a GFCI-protected circuit.
 - If removing power cord plug and hard wiring within junction box, use only a certified Electrician and must follow the National Electrical Code (NEC), NFPA 70 and all local codes.

IMPORTANT

24 and 12 VAC powered fire pit inserts:

- Fire Pit will not perform properly if power supply rating is below 100W, or wire size is too small.
- HPC highly recommends using our HPC/Sebco 24 and 12 VAC 100W power supply series
 - 24 VACS (311-PS1, 311-PS3, 311-PS5 Models)
 - 12 VACS (313-PS1, 313-PS3, 313-PS5 Models)

A Class II 24 and 12 VACS, 4-amp, 100 W transformer must be used to power the fire pit and be able to be switched on and off from a remote location to allow for easy access or emergency.

- Wire sizing: Wire lengths 75 ft or less: 14 gauge

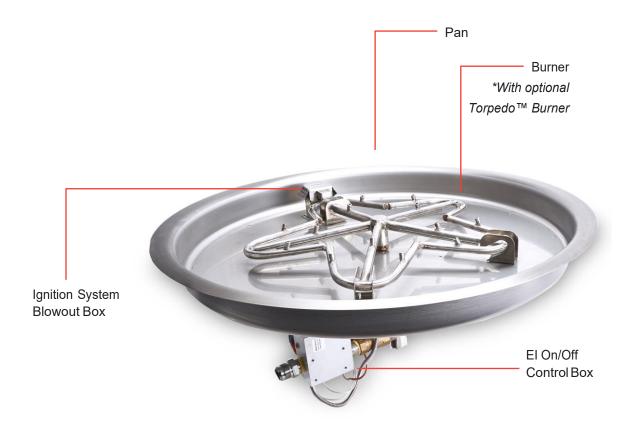
- Wire lengths 76 ft or more: 12 gauge

Important Safety Information for End-Users

- Never leave an operating fire pit unattended or with someone not familiar with its operation or emergency shut-off locations.
- Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.
- Young children should be carefully supervised when they are in fire pit.
- Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

2 Product Features and Parts List

Product Features



Parts List

- Fire Pit Insert
- Gas Input Flex Line 24"
- Installation and Operation Instructions

3 Selecting the Fire Pit Location

NOTE: All fire pits and systems are designed and intended for outdoor use only.

IMPORTANT

It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. HPC is not responsible for damage resulting from failure to follow these recommendations.

- · Select a location that
 - ensures above-grade installation of the fire pit.
 - offers good drainage.
 - allows easy access for installation and maintenance of the fire pit.
 - provides sufficient horizontal room to enjoy the fire pit while allowing a safe distance from the heat and flame.

IMPORTANT

Deck installation — If installing fire pit on a wood or composite deck, it is required to use the Deck Insulation Kit(s) and locally bought paver stones. Kit includes basalt material and instructions.

#FPI-DECK39SQ; #FPI-DECK20SQ. Also refer to drawing- Deck Insulation Kit- Install.

• Fire pits create extremely elevated temperatures. For clearances refer to table 3.1. Clothing or other flammable materials should not be placed on or near fire pit.

Clearances around Fire Pit

Fire Pit Clearances	Up to 200k BTU	201k ~ 400k BTU
Under Valve Box when applicable for drainage	2"	2"
Sides surrounding fire pit from structure or combustibles	36" (12" for noncombustible)	48" (24" for noncombustible)
Overhead clearance above product	84"	Non-combustible screen only

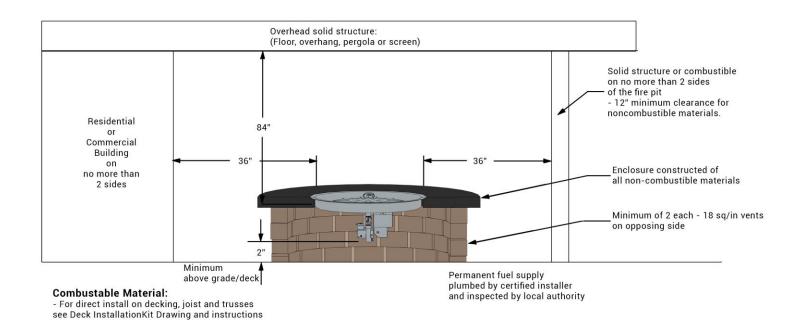
Table 3.1 - Fire Pit Clearances

4 Overhead Structures and Sidewall Clearance Requirements

It is important to review the clearance requirements below for any type of overhead structure such as pergola, roof, overhang, screens, arbor, etc. or a sidewall to ensure that the distances are met. Figures 4.1 and 4.2.

Figure 1 - Up to 200k BTU
For outdoor Use Only

		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED



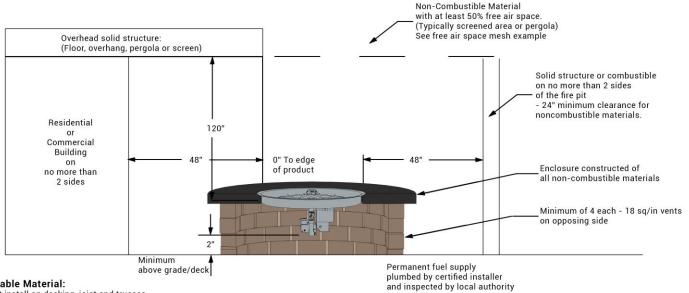
clearance questions,	DRAWN	DATE 8/18/2022	С	learanc	e's - Standard Fire	Pit Up to 200k bt	tu
Clearance from overnead structure Clearance from structure/combustible	CHECKED				HPC))	
All items may or may not apply to your project	QA				FIRE INSPIRED®	3	
Clearance's apply to any and all sides of the project.	MFG		SIZE	FSCM NO.	DWG NO		REV
Read and follow all instructions and local codes	APPROVED		SCALE		ı	SHEET	etc -

Table 4.1 – Clearances for standard fire pit up to 200k BTU

4 Overhead Structures and Sidewall Clearance Requirements

Figure 2 - 201k - 400k BTU For outdoor Use Only

		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED



Combustable Material:

- For direct install on decking, joist and trusses see Deck InstallationKit Drawing and instructions

Free Air Space Mesh Example

3:1 Scale of 20x20x.013

- -50% free air space minimum. HPC is not responsible for screen that melts
- -For non-combustible screening a 20x20x .013 wire mest thickness or courser. (More open space) -For all other non-combustible covering an on-site estimate of free air space will be nesacessary
- DRAWN DATE Diagram illustrates common clearance questions. Clearance's - Standard Fire Pit Up to 400k btu 8/18/2022 Clearance from overhead structure CHECKED Clearance from structure/combustible All items may or may not apply to your project FIRE INSPIRED® FSCM NO. REV DWG NO MFG Clearance's apply to any and all sides Read and follow all instructions APPROVED SCALE SHEET and local codes

Table 4.2 - Clearances for standard fire pit up to 201k to 400k BTU

5 Fire Pit Enclosures Requirements

Location and design

 The enclosure must be installed above-grade and allow for drainage to prevent water damage to fire pit.

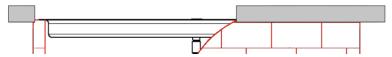


Figure 5.1 – Pan lip recessed on a trough.

- Refer to cut sheets on our website for important dimensional information for your fire pit. Visit www.hpcfire.com
- The fire pit assembly should be recessed a minimum of two inches from the top
 of the enclosure to protect flame from being blown out.
- It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. Manufacturer is not responsible for damage.
- The enclosure must be constructed on a stable surface and be level. HPC recommends the use of the installation collar (optional) that may be mortared into or sandwiched between layers of the enclosure.
- The weight of the fire pit must be supported by the pan and not by any control/ valve box.
- HPC recommends that the pan lip is recessed on a trough (linear), and large round enclosures, Figure 5.1.

NOTE: HPC cannot guarantee the lip on all our products will be perfectly flat and will not warp due to heat.

- There must be a minimum of 2 inches under the valve box for proper ventilation and drainage, see clearance drawings on page 9 and 10.
- The product must be accessible for service.

Gas

- The supply line must have a gas shutoff on the exterior of the enclosure to allow for emergency shut off and maintenance. The gas shutoff should NOT be used to adjust flame height.
- Fuel line sizing is the responsibility of the installer and must be able to supply the stated maximum BTU for the product refer to product label on fire pit.

5 Fire Pit Enclosures Requirements

Construction materials

- Use non-combustible materials and construction for gas supply, power, and enclosure.
- The interior void space of the enclosure surrounding the valve box cannot be filled with any material (gravel, crushed rock, concrete, etc.).

Venting

- The enclosure must incorporate at least two vents to allow heat and or residual fuel
 to escape. Failure to properly vent the enclosure may result in the fire pit overheating
 or explosion.
- Some enclosures may require more ventilation based on material, size, and extended use.
- The vent may also work as a drain when installed at bottom sidewall to prevent water build up.
- · Vent specifications:
 - A minimum of two vents (18 square inches for each vent) on opposing sides of the enclosure totaling 36 inches of free area are required (example: 3-inch x 6-inch or larger). Or multiple vents uniformly made throughout the enclosure totaling 36 square inches or more of free area are acceptable for large units to prevent overtempts to the electronics.
 - Ventilation along the bottom of the enclosure allows for a full open design is acceptable as well. HPC unfinished enclosures reflect this ventilation.
 - Installation of vents in the mid-to-lower area of the enclosure is recommended.
- Failure to properly vent the enclosure may result in the fire pit overheating or explosion. Continuous overheating could lead to heat damage to internal components.
- When installing insert inside a non-HPC copper or concrete bowl, ventilation should be below the bowl. If bowl is mounted on top of a column, a 6" hole is recommended to allow gas supply, electrical and water plumbing to clear.
- OVERHEATING: the fire pit will automatically close the gas valve if the temperature
 exceeds 190°F inside the valve box to prevent component damage. Turn main
 power to the fire pit off and on to reset. To correct overheating, ensure enclosure
 has adequate ventilation per the guidelines in this section.

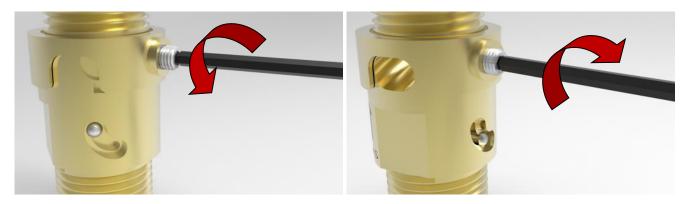
6 Installing the Fire Pit

IMPORTANT

Ensure unit is set to proper gas type before installing fire pit into enclosure. If gas type is incorrect, follow steps below before continuing to Installation Steps:

UGO™ Orifice Gas Style Setting:

1. Using a 2.5mm hex driver to loosen set screw on the back side of orifice and rotate collar. Once set lightly snug the set screw to lock down the collar but do not over tighten. (For NG, venture holes should be closed. For LP, venture holes should be open.)



1. On the front side of orifice, use a #2 flat head screwdriver to rotate orifice from either NG to LP or LP to NG depending on proper gas type. Always ensure that the colors for the orifice and collar are aligned.





WARNING

ORIFICE AND ALL FITTINGS MUST BE GAS LEAK CHECKED ANNUALLY BY AN NFI CERTIFIED TECHNICIAN. SEE SECTION "9 MAINTAINING THE FIREPIT" ON PAGE 20 FOR ROUTINE MAINTENANCE.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

6 Installing the Fire Pit

Fuel line

- Fire pit must have a gas shutoff on the outside of the exterior of the fire pit to allow for emergency shut off and maintenance. The gas shutoff should not be used to adjust flame height.
- The installer is responsible for using the correct fuel line sizing that can supply the stated maximum BTU for the product – refer to product label on the fire pit for specifications.

INSTALLATION

We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.

Perform all leak tests with leak detector or leak reactant.

IMPORTANT

To prevent damage, unhook the fire pit from the gas supply for pressure leak tests of the supply line.

IMPORTANT

Burn Testing: It is the responsibility of the qualified installer to test for gas leaks at all connections.

IMPORTANT

Gas Plumbing Connections: Use joint compound or tape that is resistant to all gases. Apply joint compound only to all male pipe fittings. DO NOT use thread sealant on flare fittings. Be sure to tighten every joint securely.

Installation Steps:

- Set fire pit in properly constructed enclosure, read Section 5 Fire Pit Enclosure Requirements.
- Position fire pit following safety recommendations with access to all gas connections for testing. Read Section 3 – Selecting the Fire Pit Location for more details.
- 3. Shut off gas supply to fire pit.
- 4. Connect proper 120 VAC, 24 VAC or 12VAC electrical power following all local codes.
- 5. Connect fire pit to main gas supply. Warning: avoid sharp bends with flex line to prevent whistling.

6 Installing the Fire Pit

- 6. Turn on gas supply, purge gas lines of air and perform leak test on all inlet connections. Repair as needed.
- 7. Initial Start-up after install:

Several "ON/OFF" cycles may be necessary to purge air in gas lines after system installation.

- 1. Turn "ON" gas to fire pit.
- 2. Remove Blowout Box lid to allow viewing of hot surface igniter
- 3. Turn "ON" electrical power to fire pit via wall switch or breaker.
- 4. Hot surface igniter should begin to glow within 10 seconds.
- 5. Pilot flame will eventually igniter. NOTE: This may take several cycles due to air in the gas line. Unit will lockout after 15 cycles- to reset, please turn "OFF" electrical power using wall switch or breaker then turn "ON", repeat step 4.
- 6. Main burner will igniter.
- 8. Once fire pit is lit, perform leak test on all gas connections. Repair as needed.

IMPORTANT For Penta Burner inserts, flame will be smaller with no media on the burner.

- 9. Turn off fire pit and allow it to cool.
- 10. Apply media as described in **Section 7, Adding Approved Media**. When filling the pan with lava rock and/or decorative glass, the instructions in Section 7 must be followed.
- 11. Turn on fire pit again and perform leak test with media correctly installed. If gas leak is detected verify correct media application and repair as needed.
- 12. Verify correct operation and lighting.
- 13. Review safety manual with end-user. Instruct end-user that fire pit or media must not be changed or modified.
- 14. Leave manual with end user.
- 15. Apply the Start Up and Shutdown decal next to control box in an obvious and highly visible position.

7 Adding Approved Media



WARNING

FOR GLASS MEDIA USAGE WITH LP GAS - WHEN USING APPROVED DECORATIVE GLASS TO COVER BURNER APPLY ONLY ENOUGH TO HIDE BURNER. APPLYING OVER 1/2" MAY CREATE BACK PRESSURE AND GAS LEAKAGE FROM AIR MIXER RESULTING IN LP POOLING UNDER FIRE PIT.



WARNING

FOR GLASS MEDIA USAGE WITH LP GAS - THE UNIT MUST BE TESTED WITH MEDIA OVER BURNER FOR CONFIRMATION OF NO BACK PRESSURE CREATING GAS TO LEAK OUT OF AIR MIXER VENTURI HOLES. THIS MAY HAVE TO BE DONE PRIOR TO PLACING IN ENCLOSURE IF NO ACCESS DOOR.



WARNING

Never use any material that is non-porous or holds moisture such as gravel, pebbles, river rock, etc. When heated, non-porous material will not allow heated steam to readily escape which can break and cause personal injury or damage. Material that holds moisture can boil and fracture unexpectedly when exposed to heat.

IMPORTANT

The fire pit is designed to use approved media correctly installed over the burner to achieve proper combustion.

- Never install a mesh or screen under the media.
- Media affects flame pattern. It is possible to create an unusual flame pattern that could damage your enclosure. Enclosure damage from an open flame fire feature is not covered under any warranty.

7 Adding Approved Media

Application of Approved Media

Please follow the instructions below to add the final addition to your fire pit.

Particular attention needs to be on the pilot assembly area.

Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.

Lava Rock Only Application

1) Install your fire pit per instructions.



2) Apply lava rock ONLY deep enough to cover ring.



3) Blowout Box: Leave vents open. Do not cover vents with lava rock or allow any rock to block flame opening. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!

Decorative Glass Application

1) Install your fire pit per instructions.



2) Fill pan with media. Cover burner with 1/4 to 1/2 inches of glass. Do not overfill pan with glass. All LP installations must be checked for back pressure with media installed. Failure to do so may result in personal injury or property damage.



3) Blowout Box: Do not cover blowout box vents or opening with glass. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!

8 Operating the Fire Pit

- Before use, be sure to test all gas connections for leaks. Do not use fire pit if there is any evidence of leaking gas. If leaking gas suspected, turn off the main gas supply and repair immediately.
- Do not use the enclosure as a seating area. Wind and gusty conditions will affect the flame in an unpredictable manner. If conditions exist that are not safe for patrons, turn off the fire pit.
- The hose should be inspected before each use of the fire pit and replaced prior to
 use if there is evidence of excessive abrasion or wear or if the hose is damaged.
 The replacement hose assembly shall be that specified by the manufacturer.
- Do not use the fire pit if any part has been under water. Immediately call a qualified service technician to inspect the fire pit and to replace any part of the control system and any gas control that has been under water.
- Never use any material that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. This material, when heated will cause the trapped moisture to boil and fracture unexpectedly. This material is not sufficiently porous to allow heated steam to readily escape which can break and cause personal injury or damage.
- Solid fuels shall not be burned in the fire pit.
- Leaves, sticks, wood, paper, clothing, food material, should be kept away from the
 fire pit. Clothing or other flammable materials should not be hung from the appliance
 or placed on or near the appliance. Keep the appliance area free from gasoline, and
 other flammable vapors and liquids.
- · Fire pit is not for cooking.
- Make sure that there is no vegetation or other objects over the top or sides of the fire pit that could interfere with safe operation. See clearances in Section 3 – Selecting the Fire Pit Location.
- If lava rock is wet, allow the fire pit to burn for 45 minutes prior to coming within 15 feet of the fire pit.
- When the fire pit is not in operation, turn off gas valve.
- When not in use, the fire pit must be always covered.

8 Operating the Fire Pit

Start-up

Initial Start-up: Several "ON/OFF" cycles may be necessary to purge air in gas lines after system installation. Fire pit will lockout after 15 attempts to light pilot, please power OFF then ON to restart.

Sequence of Operation:

- 1. The igniter will be powered (glow red) for five seconds before pilot valve opens.
- This sequence will repeat up to 15 times (approximately 15 minutes) before going into lockout. To reset, turn "OFF" power then back "ON" again.3. Pilot flame will ignite and warm thermocouple; it may take 30 seconds at times for

2. The igniter will only be powered the initial 15 seconds of the 30-second pilot cycle.

- 3. Pilot flame will ignite and warm thermocouple; it may take 30 seconds at times for thermocouple to get hot. If thermocouple is not hot in 60 seconds, system will shut down. If this occurs, go back to Step 1.
- 4. Once thermocouple is hot, main valve will open allowing main burner to ignite.
- 5. If pilot flame is blown out at any time, system will shut down, and then automatically restart (Step 1).

El Fire Pit Start Up

- 1. STOP! Read the safety information on "What to Do If Smell Gas" (Pg. 1).
- 2. Confirm there is no debris in the fire pit (as mentioned in warnings) including water.
- 3. Turn "ON" electrical power and gas to fire pit.
- 4. Using wall switch to turn "ON" fire pit this may take several cycles to purge any air.
- 5. To reset after lockout, power unit down, wait 5 minutes, then restart.
- 6. Once the fire pit has ignited **DO NOT** leave unattended.

This product is not for use with small tanks.

DANGER

If you smell gas:

- 1) Shut off gas to appliance.
- 2) Extinguish any open flame.
- If odor continues, keep away from appliance and immediately call gas supplier or fire department.

El Fire Pit Shutdown

1. Turn "OFF" fire pit using remote, wall switch or app.

IMPORTANT

FOR REMOTE CONTROL USE, YOU MUST ALSO TURN OFF POWER TO ELECTRICAL OUTLET OR GAS TO FIRE PIT TO PREVENT ACCIDENTAL START.

2. Once fire pit is cooled, use appropriate cover to protect fire pit.

9 Maintaining the Fire Pit

- Any guard or protective device removed for servicing must be replaced prior to operating the fire pit.
- We suggest that our products be serviced annually by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.
- Ensure gas is shut off and fire pit is cool before servicing.
- Keep fire pit always covered when not in use and free of debris.
- In some areas of the country, spiders or insects have been known to build nests and/or lay eggs in the venturi holes of the air-mixer for LP units. This can cause fuel to fill the fire feature cavity and result in personal injury or property damage. Periodic inspection by a qualified service technician of the air-mixer is required to ensure your fire feature performs properly, Figure 9.1.
- Burner Cleaning: One time a year. If flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes may require cleaning. The appliance can be cleaned by carefully removing the logs and media to allow access to burner. Use a brush to carefully remove dust, spider webs, and loose particles from base, logs, and fire ring itself. If evidence of damage, fire ring must be replaced with fire ring specified by the manufacturer.
- Thermocouple cleaning of soot: Once every six months or as needed. Remove lava rock & glass around pilot, then the blowout box lid. Clean thermocouple of any soot using soft brush. Be careful not to damage hot wire element. Place lava rock or glass back as explained in Section 7 Adding Approved Media.
- Always ensure that the union fitting is tight. If loose, torque until there is no leak (recommended torque value of 80 ft lb.).
- Visually inspect the pilot. The pilot flame should cover 3/8 inch to 1/2 inch of the thermocouple, Figure 9.2. Cleaning of the pilot orifice may be required by removing pilot hood counterclockwise and removing orifice, Figure 9.3.

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.



Figure 9.1 – Locating orifice for cleaning



Figure 9.2 – Pilot flame coverage of thermocouple.



Figure 9.3 - Cleaning pilot orifice

10 Troubleshooting

Table 10.1 and 10.2, below indicates some potential causes and countermeasures to the symptoms indicated in bold type. Please contact your retailer or certified technician for service and repair.

 The error number and description are shown by the number of LED blinks on the module inside of the valve box.

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.

120v and 24v units only

Error Number &			
Description	Problem	Possible Causes	Solution
		Air in gas line	New install – May take several attempts
		No gas flow – Gas not ON or	Confirm gas is ON upstream
1		line obstruction	Debris in line – insulation, dirt, plastic, etc.
Igniter failure	Pilot Will Not Light	Pilot orifice dirty or clogged	Remove orifice and clean (Section 9)
6	i not vim itot zignt	Gas pressure improper	Confirm proper gas pressure (Section 1)
Igniter open		Igniter element damaged	Change igniter element
		Damaged wires	Inspect wires to igniter. Confirm insulation is in good condition and connections are tight
		Loose thermocouple at the valve box	Tighten down connection at valve box. Should be tightly snug.
3 Thermocouple		Thermocouple cracked/broke under pilot assembly	Replace thermocouple
error	No Main Duman	Gas pressure improper	Confirm proper gas pressure (Section 1)
4	No Main Burner (Pilot Flame Present)	Smallpilotflame	Remove pilot head and clean orifice (Section 9)
Hardware fault		Dirty thermocouple	Clean using soft brush
pilot/main valve		Fire ring obstructed	Confirm no debris or water in ring
5 Flame at startup		Improperly applied media	See Section 7.
riaine at staitup		Pilot flame present always	Debris inside valve
		Smallpilotflame	Remove pilot head and clean orifice (Section 9)
	Main Burner Turning Off/On	Improperly applied media	See Section 7.
	Frequently	Gas pressure improper	Gas pressure too low (Section 1)
	litoquonay	Thermocouple defective	Change thermocouple
		No power to unit	Confirm breaker, wall switch and remote are on
2		Remote not working	Change batteries
Over temperature		Tremote not working	Re-sync remote (High/Low models only)
	No Power or		Check external fuse (5A)
10	Response from Unit	Has power to unit but will not	Check voltage to unit
Internal control fault or Over temperature	Unit	cycle	Module sensing wrong voltage. Replace module and transformer
		Over temperature	Inadequate venting. See proper venting in Section 5. Power OFF then back ON to reset

Table 10.1 – Troubleshooting

10 Troubleshooting

12v units only

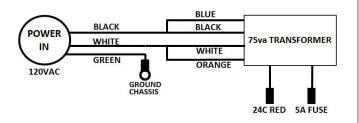
Error Number &	Duchlan	Passible Course	Calution
Description	Problem	Possible Causes	Solution
		Air in gas line	New install – May take several attempts
		No gas flow – Gas not ON or	Confirm gas is ON upstream
2		line obstruction	Debris in line – insulation, dirt, plastic, etc.
Igniter failure	Pilot Will Not Light	Pilot orifice dirty or clogged	Remove orifice and clean (Section 9)
igrittor railare		Gas pressure improper	Confirm proper gas pressure (Section 1)
		Igniter element damaged	Change igniter element
		Damaged wires	Inspect wires to igniter. Confirm insulation is in good condition and connections are tight
3		Loose thermocouple at the valve box	Tighten down connection at valve box. Should be tightly snug.
Thermocouple error	No Main Burner (Pilot Flame Present)	Thermocouple cracked/broke under pilot assembly	Replace thermocouple
4		Gas pressure improper	Confirm proper gas pressure (Section 1)
		Smallpilotflame	Remove pilot head and clean orifice (Section 9)
Flame at startup		Dirty thermocouple	Clean using soft brush
5 Hardware fault	,	Fire ring obstructed	Confirm no debris or water in ring
pilot/main valve		Improperly applied media	See Section 7.
p.154.114.11		Pilot flame present always	Debris inside valve
Slow Flash	Thermocouple hot at start-up and delay to prove absence of flame	Thermocouple still hot	Let cool down and unit will recycle
		Over temperature	Inadequate venting see proper venting in Section 5. Power OFF then back ON to reset
			Check external fuse (5A)
Fast Flash	Safety	Has power to unit but will not	Check voltage to unit
	Shutdown	cycle	Module sensing wrong voltage. Replace module and transformer

Table 10.2 – Troubleshooting

11 Wiring Diagram

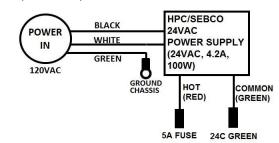
120VAC Models:

(Included in fire pit control box)

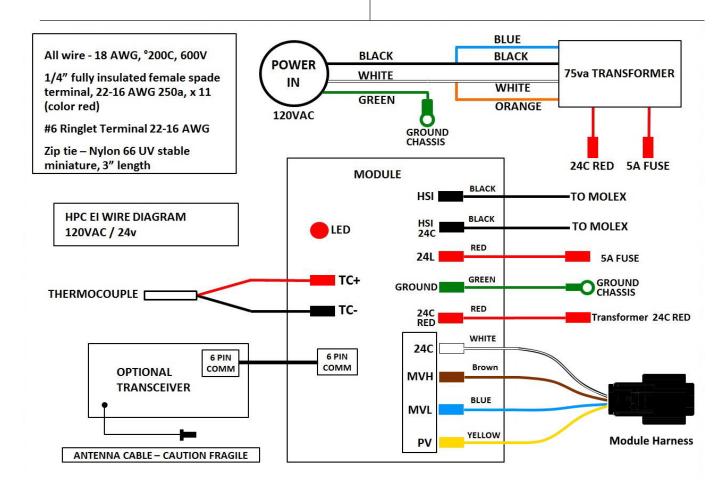


24VAC Models:

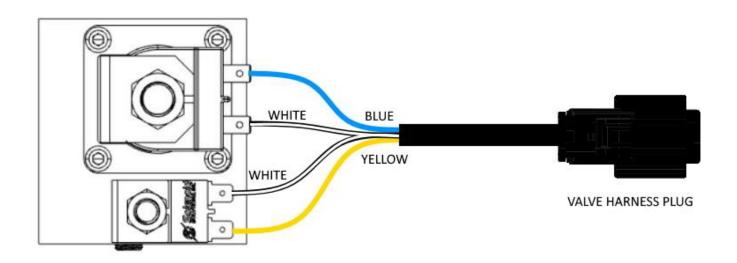
(Power supply sold separately) 311-PSI, 311-PS5



NOTE: 100W Output Required

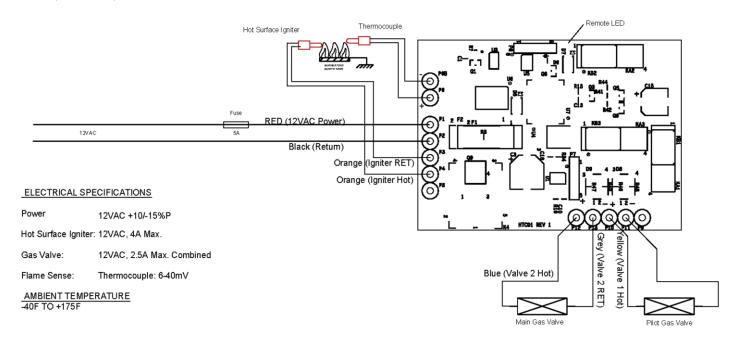


11 Wiring Diagram



12VAC Models:

(Power supply sold separately) 313-PSI, 313-PS3, 313-PS5



12 Compatible Accessories

• **Fire pit cover** – Hearth Products Controls has decorative copper covers and heavy-duty vinyl covers for your fire pit that will protect it from rain, snow, and moisture. See Figure 12.1.

For a complete list of accessories, visit www.hpcfire.com



Figure 12.1 - Fire pit cover

13 Replacement Parts

Please contact your dealer for parts – if unsure please contact HPC or visit our website at **www.hpcfire.com** and we will be happy to help you.

El Series Replacement Components

Part Number	Item
311-T/C	Thermocouple
312-IGNITER	24v Hot Surface Igniter
313-IGNITER	12v Hot Surface Igniter
312-EIMOD	24v Control Module
313-EIMOD-R	12v Module
210-EI415	24v Gas Valve
313-EI-PILOT/12V	12v Pilot Gas Valve
313-EI-MAIN/12V	12v Main Gas Valve
576-75VA	Transformer
579	120VAC Power Cord
Please Buy Local	Fuse (5A) – common fast acting

Pilot Assembly

Part Number	Fire Pit Size	Gas
HSIP-36SS	50k ~ 275k BTU	NG
HSIP-36SS-300NG	300k BTU	NG
HSIP-36SS-400NG	400k BTU	NG
HSIP-36SS-50/225LP	50k ~ 225k BTU	LP
HSIP-36SS-250 / 400LP	250k ~ 400k BTU	LP
12v Pilot Assembly		
HSIP12V-36SS	50k ~ 275k BTU	NG
HSIP12V-36SS-LP/LOW	50k ~ 275k BTU	LP

Warranty

Hearth Products Controls Co. (HPC) warrants fire pits against manufacturing defects that prevent safe and correct function as follows:

1) Stainless Steel Fire Pit and Outdoor Fireplace Burners - Lifetime Warranty

Limited Warranty:

- 2) Electronics, Gas Valve: Commercial-1 year; Residential-3 year.
- 3) Pilot Assembly: Commercial-1 year; Residential-2 year.
- 4) Stainless Steel Pan, Valve Box: Commercial-1 year; Residential-5 years

Warranty commences from the date of original sale / shipment from HPC FOB Dayton, Ohio. This warranty is for parts and in-house (HPC) labor. The defective product must be sent back to HPC with a Return Merchandise Authorization (RMA) issued by HPC for that specific product and any other additional information for the nature of the defect or warranty claim. The warranty does not cover items that have been damaged by overheating, modification, abuse, or improper storage. Also, any labor involving installation or maintenance with the unit is not covered. This warranty excludes claims for consequential, indirect-collateral expenses arising from product defects or warranty recovery.

Rev.0 5/8/2019



Hearth Products Controls

Fire-inspired since 1975.

2225 Lyons Road Miamisburg, Ohio 45342

For detailed product information, go to www.hpcfire.com



BY:

Project Name: Farm Credit **Project Number:** 02-23-2720

Subcontractor: Comfort Systems

Specification: 10 30 00 - Fire Place/Pit

Submittal Number: #103000-1

Construction Manager:

NABHOLZ CONSTRUCTION SERVICES			
Revise & Resubmi	t		
Reviewed & Amend As Noted			
X			
By: William Ray	Date:_08/10/2023		

APPROVED	□REV
□ APPROVED AS CORRECTED	□иот
☐REVIEWED BY CONSULTANT	□ SUP

☐ REVISE AND RESUBMIT	
□NOT APPROVED	
□ SUPPLEMENTAL HJ COMMENT	rs

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to the techniques of construction; and for coordination of the work of all trades.

Design Review Comments:

Jorge Andrade			
9/12/2023			





CSA CERTIFIED-OUTDOOR USE ONLY FOR COMMERCIAL AND RESIDENTIAL USE.

1/4" TAP PLUG
FOR MANIFOLD
PRESSURE
CHECK
SIDE ELEVATION

AVAILABLE IN:

- •120VAC OR 24VAC
- ON/OFF OR HI/LO

MATERIAL: 304 STAINLESS STEEL

HI/LO MODELS HAVE A 40% REDUCTION IN BTU ON LOW SETTING

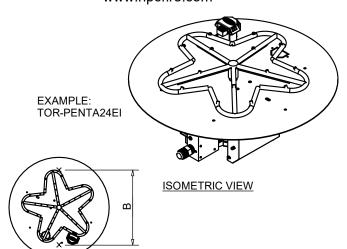
	PENTA BURNER								
			BTU	DIMENSION CHART					
PAR	T NUMBER*	PENTA			В"	C" (+	·/- 1/2")		
			TORPEDO	Α"	Ь	PENTA	TORPEDO		
TOR-	PENTA18EI	65K	90k	18	12	7-3/4	7-3/4		
TOR-	PENTA24EI	125K	140k	24	18	9-3/4	7-3/4		
TOR-	PENTA30EI	200K	225k	30	24	9-3/4	7-3/4		
TOR-	PENTA36EI	250K	275k	36	30	10-3/4	7-3/4		
TOR-	PENTA42EI	400K	375K	42	36	11-3/4	7-3/4		
TOR-	PENTA54EI	400K	400K	54	48	11-3/4	7-3/4		

*FOR TORPEDO BURNERS ADD TOR-

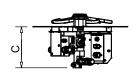
ROUND BURNER							
PART NUMBER	BTU		SION CHART				
	ыо	Α"	В"	C" (+/- 1/2")			
14SSEI	90K	14	12	7-3/4			

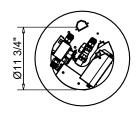
HEARTH PRODUCTS CONTROLS 2225 LYONS RD. MIAMISBURG, OH 45342 TOLL FREE: 877.585.9800

PHONE: 937.436.9800 www.hpcfire.com

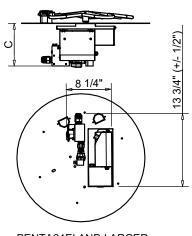


TOP VIEW









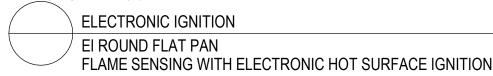
PENTA24EI AND LARGER
CONTROLS CONFIGURATION

NOTES:

- 1. PROPER VENTING
 - ENCLOSURES:
 - For Fire Pit Inserts upto 200K BTU: Required 2 vents, 18 sq.in. each on opposing sides.
 - For Fire Pit Inserts 200K to 400K BTU: Required 4 vents, 18 sq.in. each on opposing sides
 - BOWLS (Copper, concrete or metal) Bowl to be raised above mounting surface minimum of 3/4" gap; Bowl to have a minimum of 6" diameter hole in bottom
- 2. GAS SUPPLY FOR USE WITH FIXED PIPING SYSTEMS ONLY NOT FOR USE WITH SMALL TANKS.
 - Natural Gas: Supply Pressure: Minimum: 3.5" W.C; Maximum: 7.0" W.C.
 - LP Gas: Supply Pressure: Minimum: 8" W.C.; Maximum: 11.0" W.C.

IMPORTANT: Ensure any flex line that may be used from the permanent main fuel supply to the product is rated to the stated max btu of the product and certified to ANSI Z21.75*CSA 6.27.

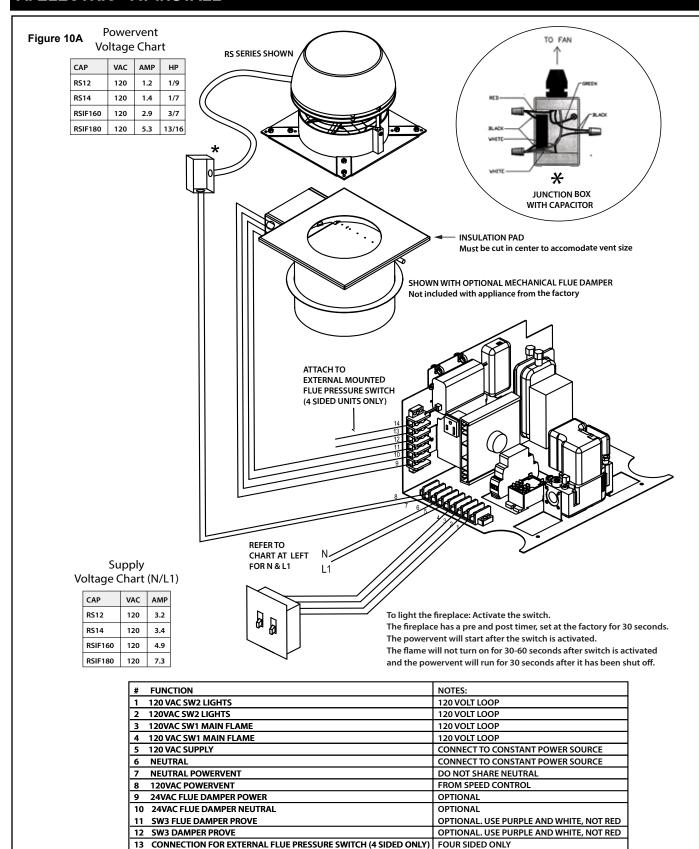
- 3. MODIFICATION OF PRODUCT WILL VOID ANY CERTIFICATION AND WARRANTY
- 4. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODES.
- 5. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS AS OF THE REVISION DATE.
- 6. DO NOT SCALE DRAWING.
- 7. THESE DRAWINGS ARE FOR SIZING AND PLANNING PURPOSES. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT. THE MANUFACTURER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWING.
- CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 771-046





REVISION DATE 8/15/2022

A. ELECTRIC - AT INSTALL



SYSTEM A - LIGHTS

14 CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY) FOUR SIDED ONLY

Figure 10B

CONTROLLER 12VDC FLUE PRESSURE SWITCH SPEED CONTROL INTAKE DAMPER PURPLE O14O O13O **OPTIONAL. FLUE DAMPER PROVE SW3** 0120 OPTIONAL. FLUE DAMPER PROVE SW3 OPTIONAL. FLUE DAMPER POWER O10O OPTIONAL. FLUE DAMPER POWER 090 120VAC POWERVENT 080 NEUTRAL POWERVENT 070 NEUTRAL 060 120 VAC SUPPLY 120VAC SW1 MAIN FLAME 040 120VAC SW1 MAIN FLAME 120VAC SW2 LIGHTING 120VAC SW2 LIGHTING 010 GAS VALVE

#	FUNCTION	NOTES:
1	120VAC SW2 LIGHTS (IF EQUIPPED)	120 VOLT LOOP
2	120VAC SW2 LIGHTING (IF EQUIPPED)	120 VOLT LOOP
3	120VAC SW1 MAIN FLAME	120 VOLT LOOP
4	120 VAC SW1 MAIN FLAME	120 VOLT LOOP
5	120 VAC SUPPLY	120VAC 15AMP MIN DEDICATED CIRCUIT
6	NEUTRAL	120VAC 15AMP MIN DEDICATED CIRCUIT
7	NEUTRAL POWERVENT	DO NOT SHARE NEUTRAL
8	120VAC POWERVENT	FROM SPEED CONTROL
9	24VAC FLUE DAMPER POWER (IF EQUIPPED)	OPTIONAL. BLACK WIRE IN PAIR.
10	24VAC FLUE DAMPER NEUTRAL (IF EQUIPPED)	OPTIONAL. RED WIRE IN PAIR.
11	SW3 FLUE DAMPER PROVE (ONLY IF DAMPER IS USED)	OPTIONAL. USE PURPLE AND WHITE, NOT RED
12	SW3 DAMPER PROVE (ONLY IF DAMPER IS USED)	OPTIONAL. USE PURPLE AND WHITE, NOT RED
13	CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)	FOUR SIDED ONLY
14	CONNECTION FOR EXTERNAL FLUE PRESSURE SWITCH (4 SIDED ONLY)	FOUR SIDED ONLY

Supply

Voltage Chart (N/L1)

RSIF180 120 7.3

RS12

RS14

RSIF160

VAC AMP

120 4.9

120 3.2

120 3.4

Powervent

Voltage Chart

120 1.2 1/9

120

RS12

RS14

RSIF160 120

RSIF180

VAC AMP HP

2.9

120 5.3 13/16

1.4 1/7

3/7

LINE IN

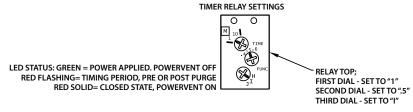
LINE IN

LIGHT SWITCH, •

HOME AUTOMATION RELAY,

TIMER OR REMOTE, ETC •

SYSTEM FB1B111SYS (1BL)



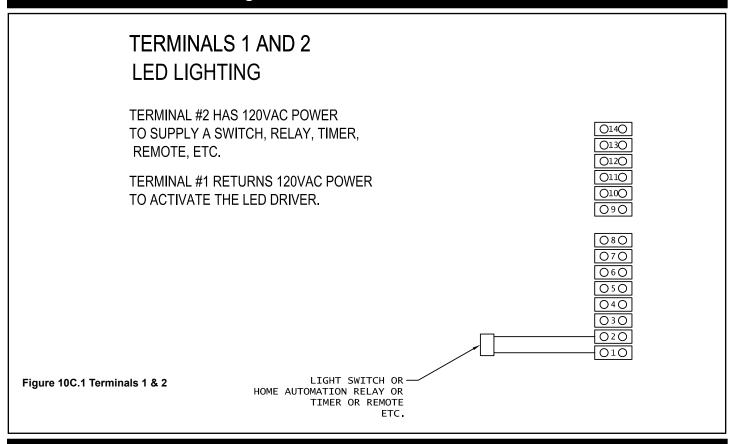
To light the fireplace: Activate the switch.

The fireplace has a pre and post timer, set at the factory for 30 seconds.

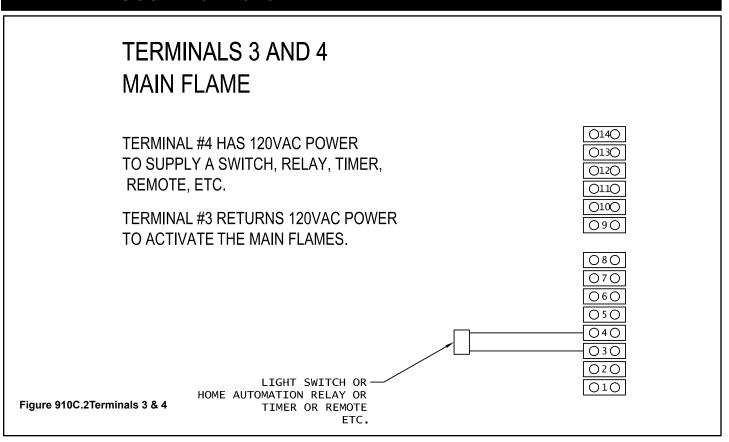
The powervent will start after the switch is activated.

The flame will not turn on for 30-60 seconds after switch is activated and the powervent will run for 30 seconds after it has been shut off.

C.1 TERMINALS 1 & 2 - LED Lights



C.2 TERMINALS 3 & 4 - Main Flame



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C.3 TERMINALS 5 & 6 - Fireplace Power

TERMINALS 5 AND 6 FIREPLACE POWER

TERMINAL #5 IS THE 120VAC POWER SUPPLY FOR THE FIREPLACE. THIS IS A CONSTANT POWER SUPPLY AND SHOULD NOT BE SWITCHED. A SERVICE DISCONNECT MAY BE DESIRED.

TERMINAL #6 IS THE NEUTRAL CONNECTION.

LINE IN

GROUND - LOCATE THE GREEN WIRE CLUSTER CONNECT THE GREEN WIRE TAIL TO BUILDING GROUND

010

0140

O13O

O12O O11O

O10O

080 070 060

Figure 10C.3 Terminals 5 & 6

Terminals 7 & 8

C.4 TERMINALS 7 & 8 - Powervent Connection

TERMINAL #7 IS THE NEUTRAL CONNECTION FOR THE POWERVENT MOTOR. **MOTOR** TERMINAL #8 IS THE HOT CONNECTION FOR THE POWERVENT MOTOR FROM THE SPEED CONTROL. POWERVENT POWER MUST COME FROM THE TERMINAL BLOCK AND NOT ANY OTHER POWER SOURCE. O14O O13O O12O 0110 0100 090 120VAC POWERVENT 080 NEUTRAL POWERVENT 070 060 050 **TERMINALS 7 AND 8** 040 030 POWERVENT CONNECTION Figure 10C.4 020

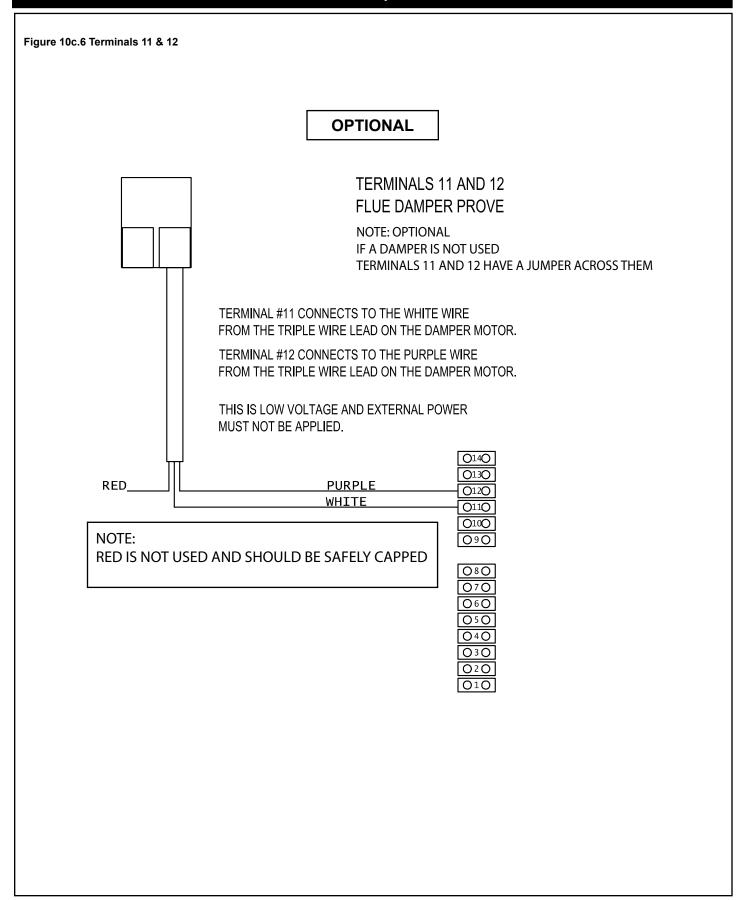
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C.5 TERMINALS 9 & 10 - OPTIONAL Flue Damper Connection

Figure 10C.5 Terminals 9 & 10
OPTIONAL
TERMINALS 9 & 10 FLUE DAMPER CONNECTION
TERMINAL #9 IS THE NEUTRAL CONNECTION FOR THE DAMPER MOTOR. BLACK WIRE
TERMINAL #10 IS THE HOT CONNECTION FOR THE DAMPER MOTOR. RED WIRE
THIS IS LOW VOLTAGE AND EXTERNAL POWER MUST NOT BE APPLIED
O14O O13O O12O O11O
24 VAC DAMPER MOTOR - RED NEUTRAL DAMPER MOTOR - BLACK 090
NOTE: OPTIONAL IF A DAMPER IS NOT USED DO NOT CONNECT ANYTHING TO TERMINALS 9 & 10 O80 O70 O60 O50 O40 O30
020 010

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C.6 TERMINALS 11 & 12 - OPTIONAL Flue Damper Connection



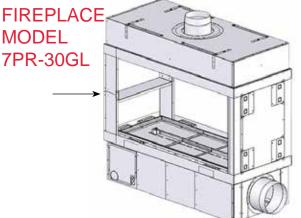
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4 - PREPARE THE FIREPLACE

C. SHIPPING SUPPORT BRACKETS

The hood must be supported at specific locations using 1/4-20 UNC threaded rods.

Temporary support brackets are put in place for shipping and installation support and must stay in place until fireplace hood is fully supported.



- Install the threaded rods in the appropriate locations for I, J & K
 as noted below in Framing A.
- Level the fireplace.
- Ensure fireplace is fully supported and leveled and then remove support brackets.

CAUTION! RISK OF INJURY!

DO NOT remove support brackets until fireplace is fully supported and level.

Figure 3C
Temporary Shipping Support Bracket

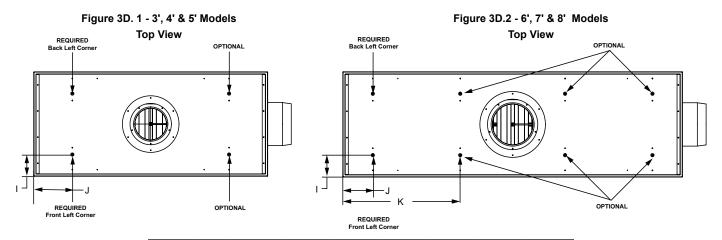
D. THREADED RODS

The Pier fireplace requires 2 threaded rods to be placed at the glass-to-glass intersections.

Placement of the required threaded rods is at the I & J intersection at the front left and back left corners notated as REQUIRED I & J locations.

Additional locations are provided if your installation needs more support notated as OPTIONAL I, J & K locations. Once the required threaded rods are in place and the the hood fully supported, the temporary support brackets may be taken off.

See next page for threaded rod installation option.



Qty 2 threaded rods are required in the front and back left hand corner										
glass-to-glass intersections (I & J)										
All other locations are optional if additional support is needed.										
MODEL QTY Additional I J K										
	REQ OPT INCHES MM INCHES MM INCHES									
3' PR	2	2	5	127	6-3/8	162	NA	NA		
4' PR	2	2	5	127	NA	NA				
5' PR	2	2	5	NA	NA					
6' PR	2	6	5	127	6-7/8	175	26-7/8	683		
7' PR 2 6 5 127 6-7/8 175 32-7/8 83										
8' PR	2	6	5	127	6-7/8	175	38-7/8	987		
UFIX			3	127	0-170	173	30-170	301		

The hood shall be supported at specific locations using 1/4-20 UNC threaded rods.

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4 - PREPARE THE FIREPLACE

E. THREADED RODS INSTALLATION (EXAMPLE)

There are several different ways to support the fireplace top and one option is to use a Unistrut installed over the fireplace that is secured to structurally sound framing. Refer to Figure 4B.

For each threaded rod installation you may need:



Super Strut



1/4-20 Eyebolt



Quick Link



Turnbuckle



Qty 2 1/4-20 Threaded Rod or All Thread

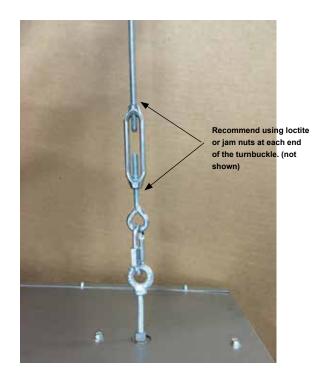




Nut

(Qty Per Threaded Rod Used)





- Install the threaded rod fully into the threaded fastener located on top of the fireplace.
- Insert the threaded rod into a hole in the Unistrut straight above the threaded fastener located on top the fireplace.
- Use a fender washer and nut on the top end of the threaded rod to adjust the height of the fireplace opening. Make sure the opening dimension is exact all the way around. Use Locktite to secure the nut from from loosening (not shown).
- If the top of the threaded rod is to be secured into blind threaded fastener or if there isn't clearance above to adjust the rod, you can use a turnbuckle to adjust the height.
- Install an eyebolt fully into the threaded nut located on top of the fireplace.
- Use a quick link to connect the eye bolt to the reverse thread side of the turnbuckle.
- Thread the threaded rod into the normal side of the turnbuckle.
- Use the locktight or jam nuts to secrure the turnbuckle from loosening.

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NOTE: Framing dimensions should allow for wall covering thickness and fireplace facing materials. When using a hearth, adjust rough opening size as necessary to maintain at least minimum clearance requirements.



CAUTION: Install fireplace on metal, concrete or hard wood surface extending the full width and depth of fireplace.



CAUTION: Vent cap location must be in compliance with guidelines in Section 8 (Venting) of this manual.

If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over top of fireplace to support the added weight. Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used.



NOTE: REFER TO DIMENSIONS SECTION FOR ALLOWABLE FINISHING DIMENSIONS REQUIRED TO FIT THE GLASS PANELS INTO THE FIREPLACE. FINISHING MATERIALS MUST NOT OVERLAP THE DIMENSIONS HIGHLIGHTED IN GREEN IN SECTION 2 (DIMENSIONS). NEVER COVER THE GLASS WITH FINISHING MATERIALS.



NOTE: <u>DO NOT</u> PIERCE ANY OF THE BLACK PAINTED SURFACES WITH SCREWS, RIVETS, ETC.
THIS INCLUDES THE 3" [76] BLACK TOP AND BOTTOM GLASS TRIM AND ANY PAINTED SIDES ADJACENT TO THE GLASS.

IMPORTANT FRAMING NOTES:

THE FIREPLACE IS NOT LOAD-BEARING

FRAMING SHOULD BE BUILT AFTER THE FIREPLACE IS INSTALLED OR EXTRA CLEARANCE MUST BE PLANNED FOR AT THE INTAKE COLLAR AND FOR THE THICKNESS OF MATERIALS USED.

FRAMING DIMENSIONS ASSUMING 1/2" [13] DRYWALL AND NON-COMBUSTIBLE BOARD USED.

THESE DIMENSIONS REPRESENT THE FRAMING DIMENSIONS FOR COMBUSTIBLE MATERIAL.

NON-COMBUSTIBLE FRAMING AND FINISHING MATERIALS MAY BE USED WITHIN THESE DIMENSIONS RIGHT UP TO THE UNIT.

NO COMBUSTIBLE MATERIAL WITHIN 6" [152] OF THE TOP OF THE FIREPLACE.

NO COMBUSTIBLE MATERIAL WITHIN 1" [25] OF THE SIDES, BACK AND FRONT OF THE FIREPLACE.

COMBUSTIBLE MATERIAL SHALL NOT BE PLACED DIRECTLY ON THE FACE OF THE FIREPLACE, TOP AND SIDES.

SEE SECTION 5 (NON-COMBUSTIBLE ZONE) AND SECTION 10 (FINISHING) FOR DETAILS REGARDING 1/2" [25] STANDOFFS.

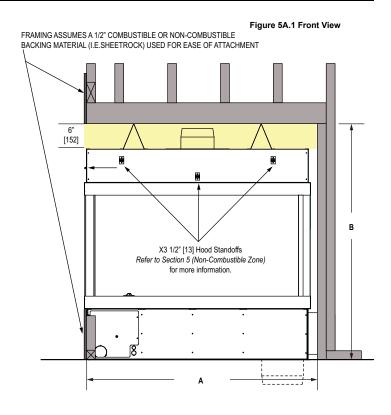
STEEL SURFACE MAY BE COVERED WITH NON-COMBUSTIBLE FINISHING MATERIAL.

1" CLEARANCE TO THE B-VENT MUST BE MAINTAINED.

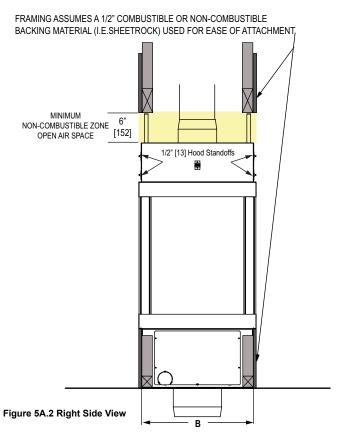
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A. FRAMING DIMENSIONS

	Framing Width	Framing Height	Framing Depth
MODEL	А	В	С
3PR-20GL	42-3/4 [1,086]	52 [1,321]	23 [584]
4PR-20GL	54-3/4 [1,391]	52 [1,321]	23 [584]
5PR-20GL	66-3/4 [1,695]	52 [1,321]	23 [584]
6PR-20GL	78-3/4 [2,000]	52 [1,321]	23 [584]
7PR-20GL	90-3/4 [2,205]	52 [1,321]	23 [584]
8PR-20GL	102-3/4 [2,610]	58 [1,473]	23 [584]
3PR-24GL	42-3/4 [1,086]	56 [1,422]	23 [584]
4PR-24GL	54-3/4 [1,391]	56 [1,422]	23 [584]
5PR-24GL	66-3/4 [1,695]	56 [1,422]	23 [584]
6PR-24GL	78-3/4 [2,000]	56 [1,422]	23 [584]
7PR-24GL	90-3/4 [2,205]	56 [1,422]	23 [584]
8PR-24GL	102-3/4 [2,610]	62 [1,574]	23 [584]
3PR-30GL	42-3/4 [1,086]	62 [1,574]	23 [584]
4PR-30GL	54-3/4 [1,391]	62 [1,574]	23 [584]
5PR-30GL	66-3/4 [1,695]	62 [1,574]	23 [584]
6PR-30GL	78-3/4 [2,000]	62 [1,574]	23 [584]
7PR-30GL	90-3/4 [2,205]	62 [1,574]	23 [584]
8PR-30GL	102-3/4 [2,610]	68 [1,727]	23 [584]
3PR-36GL	42-3/4 [1,086]	68 [1,727]	23 [584]
4PR-36GL	54-3/4 [1,391]	68 [1,727]	23 [584]
5PR-36GL	66-3/4 [1,695]	68 [1,727]	23 [584]
6PR-36GL	78-3/4 [2,000]	68 [1,727]	23 [584]
7PR-36GL	90-3/4 [2,205]	68 [1,727]	23 [584]
8PR-36GL	102-3/4 [2,610]	74 [1,880]	23 [584]
3PR-48GL	42-3/4 [1,086]	80 [2,032]	23 [584]
4PR-48GL	54-3/4 [1,391]	80 [2,032]	23 [584]
5PR-48GL	66-3/4 [1,695]	80 [2,032]	23 [584]
6PR-48GL	78-3/4 [2,000]	80 [2,032]	23 [584]
7PR-48GL	90-3/4 [2,205]	80 [2,032]	23 [584]
8PR-48GL	102-3/4 [2,610]	86 [2,184]	23 [584]
3PR-60GL	42-3/4 [1,086]	92 [2,337]	23 [584]
4PR-60GL	54-3/4 [1,391]	92 [2,337]	23 [584]
5PR-60GL	66-3/4 [1,695]	92 [2,337]	23 [584]
6PR-60GL	78-3/4 [2,000]	92 [2,337]	23 [584]
7PR-60GL	90-3/4 [2,205]	92 [2,337]	23 [584]
8PR-60GL	102-3/4 [2,610]	98 [2,489]	23 [584]



Refer to Section 5 (Non-combustible Zone) for more information on the 1/2" [13] clearance standoffs.



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B.1 NON-COMBUSTIBLE ZONE - USING THE PROVIDED 1/2" STANDOFFS

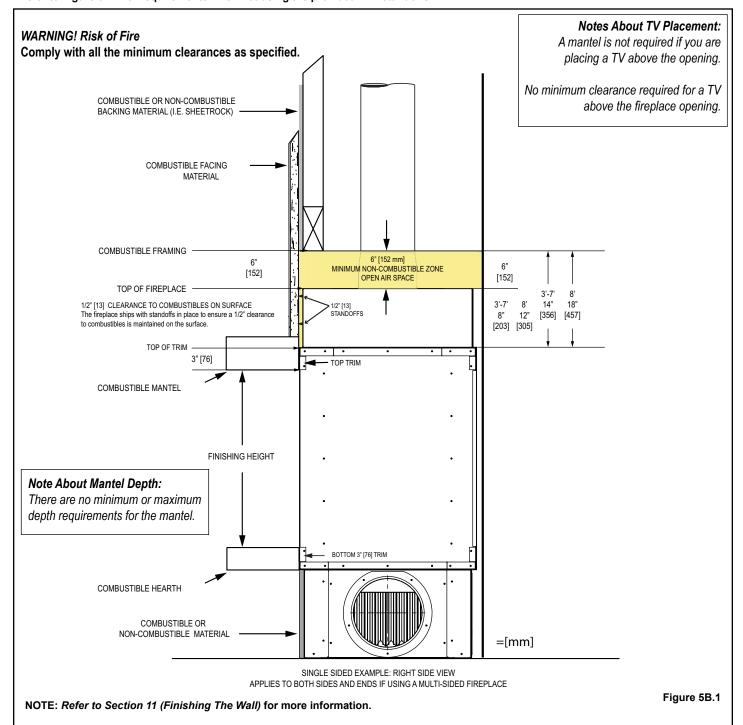
The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the upper left, center and right front of the fireplace and are to ensure that the 1/2" [12.7mm] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2" [12.7mm] minimum thickness must be used in the space* between the top of the 3" trim to the combustible framing the full width of the fireplace. The space* includes a 7" [178mm] minimum above the top of the fireplace that is recommended for ease of attachment. *= 15" [381] for 3'-7' units and 19" [483] for 8' units.



1/2" [12.7mm] Standoff

Refer to Figure 5B.1 below for a standard installation using the provided 1/2"standoffs. Refer to Figure 5B.2 for requirements when not using the provided 1/2" standoffs.



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B.2 NON-COMBUSTIBLE ZONE - NOT USING THE PROVIDED 1/2" STANDOFFS

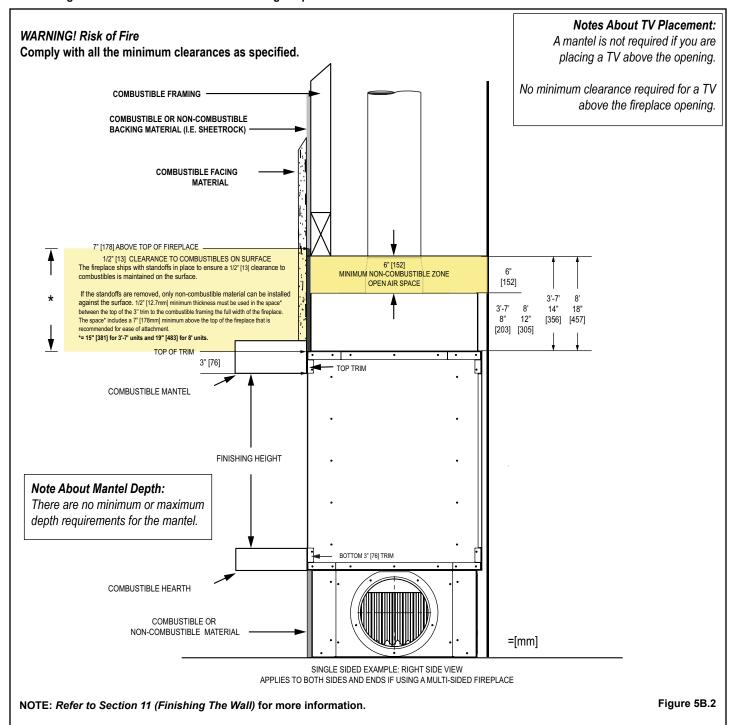
The fireplace has standoffs installed on the front of the fireplace standard from the factory. They are located on the left, center and right front hood of the fireplace and are to ensure that the 1/2" [12.7mm] required clearance to combustibles on the surface of the fireplace is maintained.

If the standoffs are removed, only non-combustible material can be installed against the surface of the fireplace such as a non-combustible backer cement board. 1/2" [12.7mm] minimum thickness must be used in the space* between the top of the 3" trim to the combustible framing the full width of the fireplace. The space* includes a 7" [178mm] minimum above the top of the fireplace that is recommended for ease of attachment. *= 15" [381] for 3'-7' units and 19" [483] for 8' units.



1/2" [12.7mm] Standoff

Refer to Figure 5B.2 below for requirements when not using the provided 1/2" standoffs. Refer to Figure 5B.1 for a standard installation using the provided 1/2" standoffs.



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7 - GAS LINE SPECIFICATIONS

This fireplace is manufactured for use with Natural Gas or Propane.



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.



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.



NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas line at test pressures equal to or less than $\frac{1}{2}$ psi (3.5 kPa).



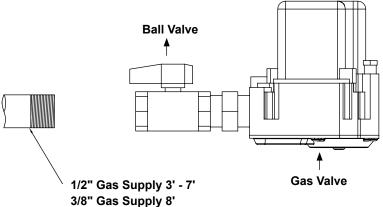
NOTE: For high altitude installations, consult Stellar Hearth Products directly for proper rating methods.

GAS LINE CONNECTION	Propane	NG
MINIMUM INLET GAS PRESSURE	11.0 inches W.C. (recommended)	7.0 inches W.C. (recommended)
MAXIMUM INLET GAS PRESSURE	14.0 inches W.C.	10.0 inches W.C.
MANIFOLD PRESSURE (HI)	10.0 inches W.C.	3.5 inches W.C.
ORIFICE SIZE	See Specifications Chart in Section 3.C	See Specifications Chart in Section 3.C
INPUT BTU/HR	See Specifications Chart in Section 3.C	See Specifications Chart in Section 3.C

NOTE: Have the gas supply line installed in accordance with local codes. If not, follar ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

NOTE: A listed (and Commonwealth of Massachusetts approved) 1/2 in. [13] T-handle manual shut-off ball valve and flexible connector are connected to the 1/2" [13] control valve inlet.

Figure 7



ADDITIONAL INFORMATION
IN SECTION 3B (GAS & ELECTRIC ACCESS LOCATIONS)

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ELECTRONIC IGNITION FIRE PIT INSERT







EISeries

On/Off Models

Installation & Operation Instructions









This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.



WARNING: For Outdoor Use Only.

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



WARNING

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

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



DANGER

FIRE OR EXPLOSION HAZARD

If you smell gas:

- Shut off gas to the appliance.
- Extinguish an open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.

Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.



DANGER



CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space

such as a camper, tent, car, or home.

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

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.



1

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- Hearth Products Controls Company recommends that our products are installed
 by professionals locally licensed by the authority having jurisdiction in gas piping.
 All installation instructions must be followed to ensure proper performance and
 safety. Hearth Products Controls Company assumes no responsibility for problems
 relating to the installation.
- To qualify for warranty, all instructions must be strictly followed. Otherwise, warranty may be void. Never alter product or configuration in any way.
- Annual servicing should be handled by professionals certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists or in Canada by WETT (Wood Energy Technical Training).
- It is the installer's responsibility to ensure a safe installation and to educate the end-user regarding the features, safety recommendations and proper operation of this product.
- Please reference page 1 for all warnings.

INSTALLER:

Leave this manual with the appliance.

END USER:

Retain this manual for future reference.

SELECT MODELS Certified to ANSI Z21.97-2014 CSA 2.41-2014



Technical Support

For information and support contact your Hearth Products Controls dealer.



Symbol Legend



This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.



Necessary instructions





Please reference page 1 for all warnings.

Important Safety Information for Installers

Leave this manual with the end-user and instruct them to retain it for future reference. Instructions and product updates are also available at **www.hpcfire.com** under the Support tab.

Installers must carefully follow the instructions in this manual to prevent personal injury or property loss. These instructions contain information critical to the safe installation and operation of the fire pit.

- Instructions are updated as needed. It is the responsibility of the installers to check for product updates and installation manual updates at www.hpcfire.com/ support.html prior to installation.
- It is the responsibility of the installer to follow:
 - The National Fuel Gas Code, ANSI Z223.1/NFPA 54 or International Fuel Gas Code.
 - Natural Gas and Propane Installation Code CSA B149.1 or CSA B149.2.
 - The National Electrical Code, ANSI/NFPA 70. In Canada, Canadian Electrical Code CSA22.1.
 - Local codes
- **Control options:** Use of wall switch, optional remote control (#578-C), automatic shut-off timer or whole house system.

Gas

- Only use the gas/fuel type specified for this fire pit, refer to the label on the fire pit control box. Never use an alternative fuel to include biofuel, ethanol, lighter fluid, or any other fuel.
- Gas pressure and type should be checked prior to use and installation.
 - Natural Gas Fire Pit: Supply Pressure: Minimum: 3.5 inches W.C.;
 Maximum: 7.0 inches W.C.
 - **LP Gas:** Supply Pressure: Minimum: 8.0 inches W.C.; Maximum: 11.0 inches W.C.

IMPORTANT If pressure is low, this will reduce flame height on HIGH setting, resulting in little to no flame variation.



- If not using supplied flex line, ensure any flex line that may be used from the permanent main fuel supply to the product is rated to the stated max BTU of the product and certified to ANSI Z21.75*CSA 6.27.
- The El Series is not for use with small LP Tanks and must utilize permanent fixed piping for fuel supply.

Electrical

- Verify correct 120 VAC 1 amp or 24, 12 VAC 4-amp power supply. Only use the
 type specified for this fire pit. Refer to the label on the fire pit control box. All
 electronic applications should utilize a GFCI-protected circuit.
 - If removing power cord plug and hard wiring within junction box, use only a certified Electrician and must follow the National Electrical Code (NEC), NFPA 70 and all local codes.

IMPORTANT

24 and 12 VAC powered fire pit inserts:

- Fire Pit will not perform properly if power supply rating is below 100W, or wire size is too small.
- HPC highly recommends using our HPC/Sebco 24 and 12 VAC 100W power supply series
 - 24 VACS (311-PS1, 311-PS3, 311-PS5 Models)
 - 12 VACS (313-PS1, 313-PS3, 313-PS5 Models)
- HPC recommends that both 24 and 12 VAC fire pits when being wired to not be daisy chained in line. Each fire pit should have its own dedicated line.

A Class II 24 and 12 VACS, 4-amp, 100 W transformer must be used to power the fire pit and be able to be switched on and off from a remote location to allow for easy access or emergency.

- Wire sizing: Wire lengths 75 ft or less: 14 gauge

- Wire lengths 76 ft or more: 12 gauge

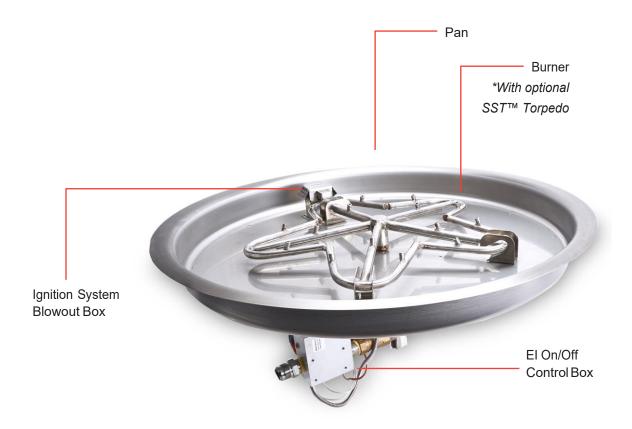
Important Safety Information for End-Users

- Never leave an operating fire pit unattended or with someone not familiar with its operation or emergency shut-off locations.
- Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.
- Young children should be carefully supervised when they are in fire pit.
- Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.



2 Product Features and Parts List

Product Features



Parts List

- Fire Pit Insert
- Gas Input Flex Line 24"
- Installation and Operation Instructions



3 Selecting the Fire Pit Location

NOTE: All fire pits and systems are designed and intended for outdoor use only.

IMPORTANT

It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. HPC is not responsible for damage resulting from failure to follow these recommendations.

- · Select a location that
 - ensures above-grade installation of the fire pit.
 - offers good drainage.
 - allows easy access for installation and maintenance of the fire pit.
 - provides sufficient horizontal room to enjoy the fire pit while allowing a safe distance from the heat and flame.

IMPORTANT

Deck installation — If installing fire pit on a wood or composite deck, it is required to use the Deck Insulation Kit(s) and locally bought paver stones. Kit includes basalt material and instructions.

#FPI-DECK39SQ; #FPI-DECK20SQ. Also refer to drawing- Deck Insulation Kit- Install.

 Fire pits create extremely elevated temperatures. For clearances refer to table 3.1. Clothing or other flammable materials should not be placed on or near fire pit.

Clearances around Fire Pit

Fire Pit Clearances	Up to 200k BTU	201k ~ 400k BTU
Under Valve Box when applicable for drainage	2"	2"
Sides surrounding fire pit from structure or combustibles	36" (12" for non-	48" (24" for noncombustible)
Overhead clearance above product	84"	Non-combustible screen only

Table 3.1 - Fire Pit Clearances



4 Overhead Structures and Sidewall Clearance Requirements

It is important to review the clearance requirements below for any type of overhead structure such as pergola, roof, overhang, screens, arbor, etc. or a sidewall to ensure that the distances are met. Figures 4.1 and 4.2.

For outdoor Use Only

REVISIONS						
ZONE	REV	DESCRIPTION	DATE	APPROVED		

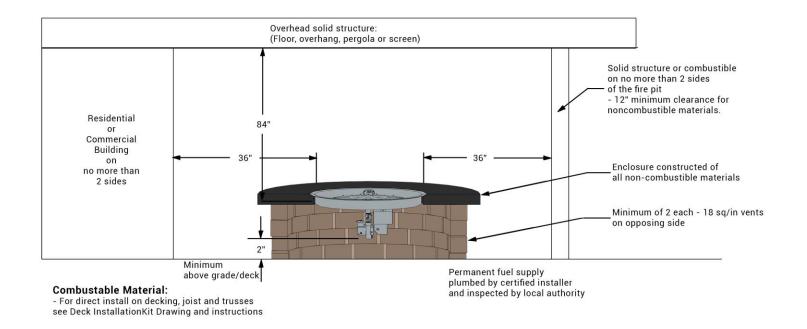


Diagram illustrates common clearance questions,	DRAWN	DATE 8/18/2022	Clearance's - Standard Fire Pit Up to 200k btu				otu	
Clearance from overhead structure Clearance from structure/combustible	CHECKED							
All items may or may not apply to your project	QA		FIRE INSPIRED®					
Clearance's apply to any and all sides of the project.	MFG		SIZE	FSCM NO.		DWG NO		REV
Read and follow all instructions and local codes	APPROVED		SCALE				SHEET	

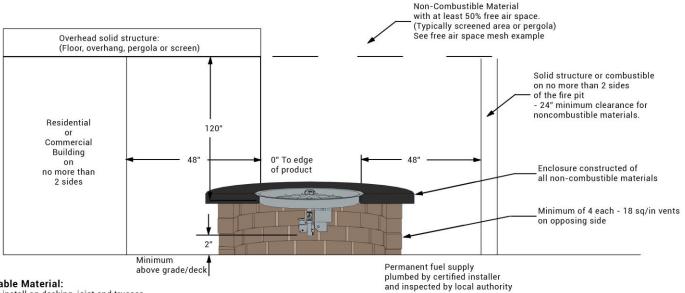
Table 4.1 – Clearances for standard fire pit up to 200k BTU



4 Overhead Structures and Sidewall Clearance Requirements

Figure 2 - 201k - 400k BTU For outdoor Use Only

REVISIONS						
ZONE	REV	DESCRIPTION	DATE	APPROVED		



Combustable Material:

- For direct install on decking, joist and trusses see Deck InstallationKit Drawing and instructions

Free Air Space Mesh Example

3:1 Scale of 20x20x.013

- -50% free air space minimum. HPC is not responsible for screen that melts
- -For non-combustible screening a 20x20x .013 wire mest thickness or courser. (More open space) -For all other non-combustible covering an on-site estimate of free air space will be nesacessary
- DRAWN DATE Diagram illustrates common clearance questions. Clearance's - Standard Fire Pit Up to 400k btu 8/18/2022 Clearance from overhead structure CHECKED Clearance from structure/combustible All items may or may not apply to your project FIRE INSPIRED® FSCM NO. REV DWG NO MFG Clearance's apply to any and all sides Read and follow all instructions APPROVED SCALE SHEET and local codes



5 Fire Pit Enclosures Requirements

Location and design

 The enclosure must be installed above-grade and allow for drainage to prevent water damage to fire pit.

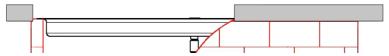


Figure 5.1 – Pan lip recessed on a trough.

- Refer to cut sheets on our website for important dimensional information for your fire pit. Visit www.hpcfire.com
- The fire pit assembly should be recessed a minimum of two inches from the top
 of the enclosure to protect flame from being blown out.
- It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. Manufacturer is not responsible for damage.
- The enclosure must be constructed on a stable surface and be level. HPC recommends the use of the installation collar (optional) that may be mortared into or sandwiched between layers of the enclosure.
- The weight of the fire pit must be supported by the pan and not by any control/ valve box.
- HPC recommends that the pan lip is recessed on a trough (linear), and large round enclosures, Figure 5.1.

NOTE: HPC cannot guarantee the lip on all our products will be perfectly flat and will not warp due to heat.

- There must be a minimum of 2 inches under the valve box for proper ventilation and drainage, see clearance drawings on page 9 and 10.
- The product must be accessible for service.

Gas

- Fire pit must have a gas shutoff on the exterior of the fire pit to allow for emergency shut off and maintenance. The gas shutoff should NOT be used to adjust flame height.
- Fuel line sizing is the responsibility of the installer and must be able to supply the stated maximum BTU for the product refer to product label on fire pit.



5 Fire Pit Enclosures Requirements

Construction materials

- Use non-combustible materials and construction for gas supply, power, and enclosure.
- The interior void space of the enclosure surrounding the valve box cannot be filled with any material (gravel, crushed rock, concrete, etc.).

Venting

- The enclosure must incorporate at least two vents to allow heat and or residual fuel
 to escape. Failure to properly vent the enclosure may result in the fire pit overheating
 or explosion.
- Some enclosures may require more ventilation based on material, size, and extended use.
- The vent may also work as a drain when installed at bottom sidewall to prevent water build up.
- · Vent specifications:
 - A minimum of two vents (18 square inches for each vent) on opposing sides of the enclosure totaling 36 inches of free area are required (example: 3-inch x 6-inch or larger). Or multiple vents uniformly made throughout the enclosure totaling 36 square inches or more of free area are acceptable.
 - We recommend 4 vents total to reduce the risk of thermal shutdown.
 - Installation of the vents in the mid-to-lower area of the enclosure is recommended.
- Failure to properly vent the enclosure may result in the fire pit overheating or explosion. Continuous overheating could lead to heat damage to internal components.
- When installing insert inside a non-HPC copper or concrete bowl, ventilation should be below the bowl. If bowl is mounted on top of a column, a 6" hole is recommended to allow gas supply, electrical and water plumbing to clear.
- OVERHEATING: the fire pit will automatically close the gas valve if the temperature
 exceeds 190°F inside the valve box to prevent component damage. Turn main
 power to the fire pit off and on to reset. To correct overheating, ensure enclosure
 has adequate ventilation per the guidelines in this section.



6 Installing the Fire Pit

Fuel line

- Fire pit must have a gas shutoff on the outside of the exterior of the fire pit to allow for emergency shut off and maintenance. The gas shutoff should not be used to adjust flame height.
- The installer is responsible for using the correct fuel line sizing that can supply the stated maximum BTU for the product – refer to product label on the fire pit for specifications.

INSTALLATION

We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.

Perform all leak tests with leak detector or leak reactant.

IMPORTANT

To prevent damage, unhook the fire pit from the gas supply for pressure leak tests of the supply line.

IMPORTANT

Burn Testing: It is the responsibility of the qualified installer to test for gas leaks at all connections.

IMPORTANT

Gas Plumbing Connections: Use joint compound or tape that is resistant to all gases. Apply joint compound only to all male pipe fittings. DO NOT use on flex line flared fittings. Be sure to tighten every joint securely.

Installation Steps:

- Set fire pit in properly constructed enclosure, read Section 5 Fire Pit Enclosure Requirements.
- Position fire pit following safety recommendations with access to all gas connections for testing. Read Section 3 – Selecting the Fire Pit Location for more details.
- 3. Shut off gas supply to fire pit.
- 4. Connect proper 120 VAC, 24 VAC or 12VAC electrical power following all local codes.
- 5. Connect fire pit to main gas supply. Warning: avoid sharp bends with flex line to prevent whistling.



6 Installing the Fire Pit

- 6. Turn on gas supply, purge gas lines of air and perform leak test on all inlet connections. Repair as needed.
- 7. Initial Start-up after install:

Several "ON/OFF" cycles may be necessary to purge air in gas lines after system installation.

- 1. Turn "ON" gas to fire pit.
- 2. Remove Blowout Box lid to allow viewing of hot surface igniter
- 3. Turn "ON" electrical power to fire pit via wall switch or breaker.
- 4. Hot surface igniter should begin to glow within 10 seconds.
- 5. Pilot flame will eventually igniter. NOTE: This may take several cycles due to air in the gas line. Unit will lockout after 15 cycles- to reset, please turn "OFF" electrical power using wall switch or breaker then turn "ON", repeat step 4.
- 6. Main burner will igniter.
- 8. Once fire pit is lit, perform leak test on all gas connections. Repair as needed.

IMPORTANT For Penta Burner inserts, flame will be smaller with no media on the burner.

- 9. Turn off fire pit and allow it to cool.
- 10. Apply media as described in **Section 7, Adding Approved Media**. When filling the pan with lava rock and/or decorative glass, the instructions in Section 7 must be followed.
- 11. Turn on fire pit again and perform leak test with media correctly installed. If gas leak is detected verify correct media application and repair as needed.
- 12. Verify correct operation and lighting.
- 13. Review safety manual with end-user. Instruct end-user that fire pit or media must not be changed or modified.
- 14. Leave manual with end user.
- 15. Apply the Start Up and Shutdown decal next to control box in an obvious and highly visible position.



7 Adding Approved Media

WARNING

FOR GLASS MEDIA USAGE WITH LP GAS - WHEN USING APPROVED DECORATIVE GLASS TO COVER BURNER APPLY ONLY ENOUGH TO HIDE BURNER. APPLYING OVER 1/2" MAY CREATE BACK PRESSURE AND GAS LEAKAGE FROM AIR MIXER RESULTING IN LP POOLING UNDER FIRE PIT.

WARNING

FOR GLASS MEDIA USAGE WITH LP GAS - THE UNIT MUST BE TESTED WITH MEDIA OVER BURNER FOR CONFIRMATION OF NO BACK PRESSURE CREATING GAS TO LEAK OUT OF AIR MIXER VENTURI HOLES. THIS MAY HAVE TO BE DONE PRIOR TO PLACING IN ENCLOSURE IF NO ACCESS DOOR.

WARNING

Never use any material that is non-porous or holds moisture such as gravel, pebbles, river rock, etc. When heated, non-porous material will not allow heated steam to readily escape which can break and cause personal injury or damage. Material that holds moisture can boil and fracture unexpectedly when exposed to heat.

IMPORTANT)

The fire pit is designed to use approved media correctly installed over the burner to achieve proper combustion.

- · Never install a mesh or screen under the media.
- Media affects flame pattern. It is possible to create an unusual flame pattern that could damage your enclosure. Enclosure damage from an open flame fire feature is not covered under any warranty.



7 Adding Approved Media

Application of Approved Media

Please follow the instructions below to add the final addition to your fire pit.

Particular attention needs to be on the pilot assembly area.

Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.

Lava Rock Only Application

1) Install your fire pit per instructions.



2) Apply lava rock ONLY deep enough to cover ring.



3) Blowout Box: Leave vents open. Do not cover vents with lava rock or allow any rock to block flame opening. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!

Decorative Glass Application

1) Install your fire pit per instructions.



2) Fill pan with media. Cover burner with 1/4 to 1/2 inches of glass. Do not overfill pan with glass. All LP installations must be checked for back pressure with media installed. Failure to do so may result in personal injury or property damage.



3) Blowout Box: Do not cover blowout box vents or opening with glass. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!



8 Operating the Fire Pit

- Before use, be sure to test all gas connections for leaks. Do not use fire pit if there is any evidence of leaking gas. If leaking gas suspected, turn off the main gas supply and repair immediately.
- Do not use the enclosure as a seating area. Wind and gusty conditions will affect the flame in an unpredictable manner. If conditions exist that are not safe for patrons, turn off the fire pit.
- The hose should be inspected before each use of the fire pit and replaced prior to use if there is evidence of excessive abrasion or wear or if the hose is damaged. The replacement hose assembly shall be that specified by the manufacturer.
- Do not use the fire pit if any part has been under water. Immediately call a qualified service technician to inspect the fire pit and to replace any part of the control system and any gas control that has been under water.
- Never use any material that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. This material, when heated will cause the trapped moisture to boil and fracture unexpectedly. This material is not sufficiently porous to allow heated steam to readily escape which can break and cause personal injury or damage.
- Solid fuels shall not be burned in the fire pit.
- Leaves, sticks, wood, paper, clothing, food material, should be kept away from the
 fire pit. Clothing or other flammable materials should not be hung from the appliance
 or placed on or near the appliance. Keep the appliance area free from gasoline, and
 other flammable vapors and liquids.
- · Fire pit is not for cooking.
- Make sure that there is no vegetation or other objects over the top or sides of the fire pit that could interfere with safe operation. See clearances in Section 3 – Selecting the Fire Pit Location.
- If lava rock is wet, allow the fire pit to burn for 45 minutes prior to coming within 15 feet of the fire pit.
- When the fire pit is not in operation, turn off gas valve.
- · When not in use, the fire pit must be always covered.



8 Operating the Fire Pit

Start-up

Initial Start-up: Several "ON/OFF" cycles may be necessary to purge air in gas lines after system installation. Fire pit will lockout after 15 attempts to light pilot, please power OFF then ON to restart.

Sequence of Operation:

- 1. The igniter will be powered (glow red) for five seconds before pilot valve opens.
- This sequence will repeat up to 15 times (approximately 15 minutes) before going into lockout. To reset, turn "OFF" power then back "ON" again.

 3. Pilot flame will ignite and warm thermocouple; it may take 30 seconds at times for

2. The igniter will only be powered the initial 15 seconds of the 30-second pilot cycle.

- 3. Pilot flame will ignite and warm thermocouple; it may take 30 seconds at times for thermocouple to get hot. If thermocouple is not hot in 60 seconds, system will shut down. If this occurs, go back to Step 1.
- 4. Once thermocouple is hot, main valve will open allowing main burner to ignite.
- 5. If pilot flame is blown out at any time, system will shut down, and then automatically restart (Step 1).

El Fire Pit Start Up

- 1. STOP! Read the safety information on "What to Do If Smell Gas" (Pg. 1).
- 2. Confirm there is no debris in the fire pit (as mentioned in warnings) including water.
- 3. Turn "ON" electrical power and gas to fire pit.
- 4. Using wall switch to turn "ON" fire pit this may take several cycles to purge any air.
- 5. To reset after lockout, power unit down, wait 5 minutes, then restart.
- 6. Once the fire pit has ignited **DO NOT** leave unattended.

This product is not for use with small tanks.

♠

DANGER

If you smell gas:

- 1) Shut off gas to appliance.
- 2) Extinguish any open flame.
- If odor continues, keep away from appliance and immediately call gas supplier or fire department.

El Fire Pit Shutdown

1. Turn "OFF" fire pit using remote, wall switch or app.

IMPORTANT

FOR REMOTE CONTROL USE, YOU MUST ALSO TURN OFF POWER TO ELECTRICAL OUTLET OR GAS TO FIRE PIT TO PREVENT ACCIDENTAL START.

2. Once fire pit is cooled, use appropriate cover to protect fire pit.



9 Maintaining the Fire Pit

- Any guard or protective device removed for servicing must be replaced prior to operating the fire pit.
- We suggest that our products be serviced annually by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.
- Ensure gas is shut off and fire pit is cool before servicing.
- Keep fire pit always covered when not in use and free of debris.
- In some areas of the country, spiders or insects have been known to build nests and/or lay eggs in the venturi holes of the air-mixer for LP units. This can cause fuel to fill the fire feature cavity and result in personal injury or property damage. Periodic inspection by a qualified service technician of the air-mixer is required to ensure your fire feature performs properly, Figure 9.1.
- Burner Cleaning: One time a year. If flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes may require cleaning. The appliance can be cleaned by carefully removing the logs and media to allow access to burner. Use a brush to carefully remove dust, spider webs, and loose particles from base, logs, and fire ring itself. If evidence of damage, fire ring must be replaced with fire ring specified by the manufacturer.
- Thermocouple cleaning of soot: Once every six months or as needed. Remove lava rock & glass around pilot, then the blowout box lid. Clean thermocouple of any soot using soft brush. Be careful not to damage hot wire element. Place lava rock or glass back as explained in Section 7 – Adding Approved Media.
- Always ensure that the union fitting is tight. If loose, torque until there is no leak (recommended torque value of 80 ft lb.).
- Visually inspect the pilot. The pilot flame should cover 3/8 inch to 1/2 inch of the thermocouple, Figure 9.2. Cleaning of the pilot orifice may be required by removing pilot hood counterclockwise and removing orifice, Figure 9.3.

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.



Figure 9.1 – Locating orifice for cleaning



Figure 9.2 – Pilot flame coverage of thermocouple.



Figure 9.3 - Cleaning pilot orifice



10 Troubleshooting

Table 10.1 and 10.2, below indicates some potential causes and countermeasures to the symptoms indicated in bold type. Please contact your retailer or certified technician for service and repair.

• The error number and description are shown by the number of LED blinks on the module inside of the valve box.

Service



NATIONAL FIREPLACE We suggest that our products be serviced by a professional certified serviced serviced serviced serviced by a professional certified serviced s serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.

120v and 24v units only

Error Number &			
Description	Problem	Possible Causes	Solution
	Pilot Will Not Light	Air in gas line	New install – May take several attempts
		No gas flow – Gas not ON or line obstruction	Confirm gas is ON upstream
1			Debris in line – insulation, dirt, plastic, etc.
Igniter failure		Pilot orifice dirty or clogged	Remove orifice and clean (Section 9)
6		Gas pressure improper	Confirm proper gas pressure (Section 1)
Igniter open		Igniter element damaged	Change igniter element
		Damaged wires	Inspect wires to igniter. Confirm insulation is in good condition and connections are tight
		Loose thermocouple at the valve box	Tighten down connection at valve box. Should be tightly snug.
3 Thermocouple		Thermocouple cracked/broke under pilot assembly	Replace thermocouple
error	No Main Duman	Gas pressure improper	Confirm proper gas pressure (Section 1)
4	No Main Burner (Pilot Flame Present)	Smallpilotflame	Remove pilot head and clean orifice (Section 9)
Hardware fault		Dirty thermocouple	Clean using soft brush
pilot/main valve		Fire ring obstructed	Confirm no debris or water in ring
5 Flame at startup		Improperly applied media	See Section 7.
riaine at staitup		Pilot flame present always	Debris inside valve
	Main Burner Turning Off/On Frequently	Smallpilotflame	Remove pilot head and clean orifice (Section 9)
		Improperly applied media	See Section 7.
		Gas pressure improper	Gas pressure too low (Section 1)
		Thermocouple defective	Change thermocouple
	No Power or Response from	No power to unit	Confirm breaker, wall switch and remote are on
2		Remote not working	Change batteries
Over temperature			Re-sync remote (High/Low models only)
		Has power to unit but will not	Check external fuse (5A)
10			Check voltage to unit
Internal control fault or Over		cycle	Module sensing wrong voltage. Replace module and transformer
temperature		Over temperature	Inadequate venting. See proper venting in Section 5. Power OFF then back ON to reset

Table 10.1 - Troubleshooting



10 Troubleshooting

12v units only

Error Number &						
Description	Problem	Possible Causes	Solution			
7.2.14	Pilot Will Not Light	Air in gas line	New install – May take several attempts			
		No gas flow – Gas not ON or line obstruction	Confirm gas is ON upstream			
			Debris in line – insulation, dirt, plastic, etc.			
2		Pilot orifice dirty or clogged	Remove orifice and clean (Section 9)			
Igniter failure		Gas pressure improper	Confirm proper gas pressure (Section 1)			
		Igniter element damaged	Change igniter element			
		Damaged wires	Inspect wires to igniter. Confirm insulation is in good condition and connections are tight			
3	No Main Burner (Pilot Flame Present)	Loose thermocouple at the valve box	Tighten down connection at valve box. Should be tightly snug.			
Thermocouple error		Thermocouple cracked/broke under pilot assembly	Replace thermocouple			
4		Gas pressure improper	Confirm proper gas pressure (Section 1)			
		Smallpilotflame	Remove pilot head and clean orifice (Section 9)			
Flame at startup		Dirty thermocouple	Clean using soft brush			
5 Hardware fault		Fire ring obstructed	Confirm no debris or water in ring			
pilot/main valve		Improperly applied media	See Section 7.			
		Pilot flame present always	Debris inside valve			
Slow Flash	Thermocouple hot at start-up and delay to prove absence of flame	Thermocouple still hot	Let cool down and unit will recycle			
		Over temperature	Inadequate venting see proper venting in Section 5. Power OFF then back ON to reset			
		Has power to unit but will not	Check external fuse (5A)			
Fast Flash	Safety		Check voltage to unit			
	Shutdown	cycle	Module sensing wrong voltage. Replace module and transformer			

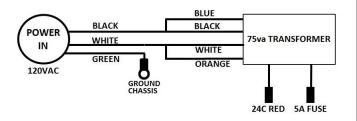
Table 10.2 – Troubleshooting



11 Wiring Diagram

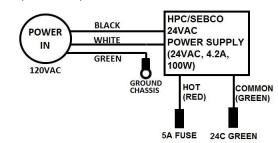
120VAC Models:

(Included in fire pit control box)

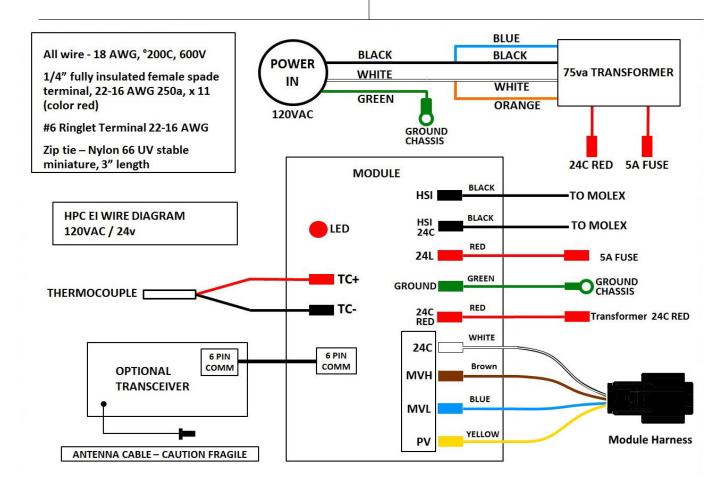


24VAC Models:

(Power supply sold separately) 311-PSI, 311-PS3

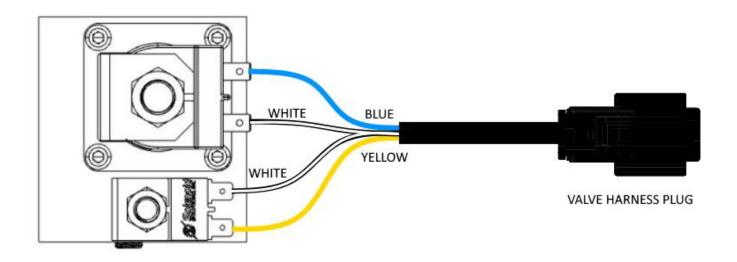


NOTE: 100W Output Required



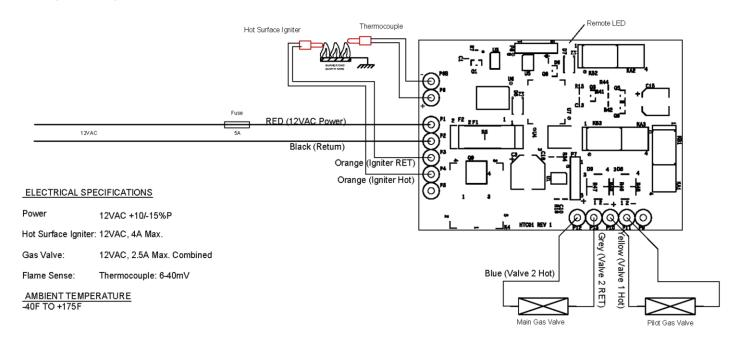


11 Wiring Diagram



12VAC Models:

(Power supply sold separately) 313-PSI, 313-PS3, 313-PS5





12 Compatible Accessories

• **Fire pit cover** – Hearth Products Controls has decorative copper covers and heavy-duty vinyl covers for your fire pit that will protect it from rain, snow, and moisture. See Figure 12.1.

For a complete list of accessories, visit www.hpcfire.com



Figure 12.1 - Fire pit cover

13 Replacement Parts

Please contact your dealer for parts – if unsure please contact HPC or visit our website at **www.hpcfire.com** and we will be happy to help you.

El Series Replacement Components

Part Number	Item
311-T/C	Thermocouple
312-IGNITER	24v Hot Surface Igniter
313-IGNITER	12v Hot Surface Igniter
312-EIMOD	24v Control Module
313-EIMOD-R	12v Module
210-EI415	24v Gas Valve
313-EI-PILOT/12V	12v Pilot Gas Valve
313-EI-MAIN/12V	12v Main Gas Valve
576-75VA	Transformer
579	120VAC Power Cord
Please Buy Local	Fuse (5A) – common fast acting

Pilot Assembly

Part Number	Fire Pit Size	Gas
HSIP-36SS	50k ~ 275k BTU	NG
HSIP-36SS-300NG	300k BTU	NG
HSIP-36SS-400NG	400k BTU	NG
HSIP-36SS-50/225LP	50k ~ 225k BTU	LP
HSIP-36SS-250 / 400LP	250k ~ 400k BTU	LP
12v Pilot Assembly		
HSIP12V-36SS	50k ~ 275k BTU	NG
HSIP12V-36SS-LP/LOW	50k ~ 275k BTU	LP



14 Warranty

Warranty

Hearth Products Controls Co. (HPC) warrants fire pits against manufacturing defects that prevent safe and correct function as follows:

1) Stainless Steel Fire Pit and Outdoor Fireplace Burners - Lifetime Warranty

Limited Warranty:

- 2) Electronics, Gas Valve: Commercial-1 year; Residential-3 year.
- 3) Pilot Assembly: Commercial-1 year; Residential-2 year.
- 4) Stainless Steel Pan, Valve Box: Commercial-1 year; Residential-5 years

Warranty commences from the date of original sale / shipment from HPC FOB Dayton, Ohio. This warranty is for parts and in-house (HPC) labor. The defective product must be sent back to HPC with a Return Merchandise Authorization (RMA) issued by HPC for that specific product and any other additional information for the nature of the defect or warranty claim. The warranty does not cover items that have been damaged by overheating, modification, abuse, or improper storage. Also, any labor involving installation or maintenance with the unit is not covered. This warranty excludes claims for consequential, indirect-collateral expenses arising from product defects or warranty recovery.

Rev.0 5/8/2019



Fire-inspired since 1975.

2225 Lyons Road Miamisburg, Ohio 45342

For detailed product information, go to www.hpcfire.com

