

SUMMIT OPEN LUXURY FIREPLACE POWER VENT MANUAL



A Power-vent fan MUST be installed on any Summit Fireplace that CANNOT meet the Minimum vent run as indicated on page 9, Figure 7 of this installation manual.

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
- Do not try to light any appliance.

- Do not touch any electrical switch; do not use any phone in your building.
- Leave the building immediately.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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



INDOOR AND OUTDOOR USE

Certified to the Canadian and American National Standards: ANSI Z21.50-2019(R2024)/CSA 2.22-2019(R2024) for decorative gas appliances for installation in solid-fuel burning fireplaces.

Thank you for your purchase. We appreciate your business! Please carefully read and follow all instructions in this manual. **Pay special attention to all warnings and safety information.** Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace. **Please read and understand these instructions before installing or operating.**



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.

⚠ WARNING Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

**NOT FOR USE WITH SOLID FUEL
CHECK LOCAL CODES PRIOR TO
INSTALLATION**

⚠ WARNING This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer, and Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**TO REDUCE THE RISK OF FIRE,
ELECTRICAL SHOCK OR INJURY TO
PERSONS, OBSERVE THE FOLLOWING:**

1. Use this unit in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed on the front of the manual.
2. Before servicing or cleaning the unit, switch off at service panel and lock service panel to prevent power from being switched on accidentally.
3. Installation work and electrical wiring must be done by a qualified person(s) in accordance with applicable codes and standards.
4. Follow the appliance manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
5. This unit must be grounded.

SAVE THIS BOOK This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.

This fireplace may not be installed in manufactured (mobile) housing constructed to HUD standards. The fireplace may be installed in aftermarket, non-HUD manufactured housing provided its installation complies with State and Local Codes and in the absence of these codes complies with the National Fuel Gas Code ANSI Z223.1 NFPA 54.

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

NOTICE 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 burns. A physical barrier is recommended if there are to be 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 and away from hot surfaces.

CAUTION Do not remove data plates from module. Data plates contain important warranty and safety information.

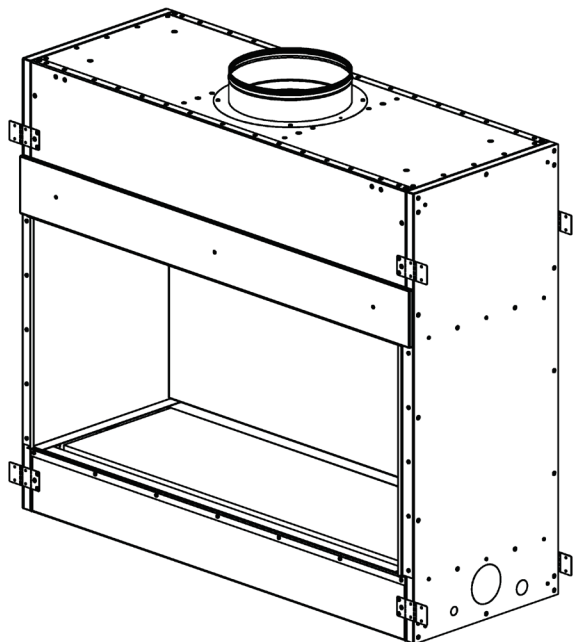
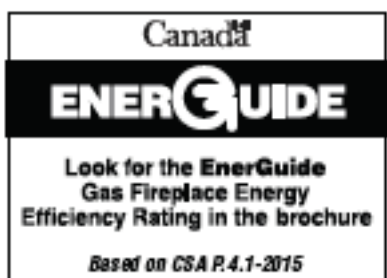


Figure 1 - Fireplace Illustration

CODES AND STANDARDS

These fireplaces comply with National Safety Standards and are tested and listed by PFS Corporation (Report No. F24-308) to ANSI Z21.50-2019(R2024)(in Canada, CSA-2.22-2019(R2024) in both USA and Canada, as vented gas fireplaces. The installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z21.50-2019(R2024)/NFPA 54—latest edition (In Canada, the current CAN/CGA-B149.1 installation code). The fireplace, when installed, must be electrically grounded and wired in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI Z21.50-2019(R2024)—latest edition, or the Canadian Electrical Code, CSA 2.22-2019 (R2024)—latest edition.

These appliances comply with CSA 2.22-2019(R2024) “Testing Method for Measuring Annual Fireplace Efficiency. P4 (EnerGuide) is a measurement of the Canadian Office of Energy Efficiency.



INTRODUCTION

Thank you for the purchase of your Summit Open Luxury Fireplace. All models use an electronic control valve and ignition system. All systems are gas specific, Natural Gas or Liquid Propane, and are not field convertible. Ensure that the gas indicated on the rating plate matches the gas type of the home. Models SML-48BR-VEN SML-48BR-VEP SML-60BR-VEN SML-60BR-VEP SML-72BR-VEN SML-72BR-VEP, SML-84BR-VEN, SML-84BR-VEP, SML-96BR-VEN, SML-96BR-VEP are equipped with Bedrock Linear burners are required to add either ½” reflective glass or Lava granules to the media bed. Option media include cannonballs or driftwood logs. NOTE DO NOT USE ½” reflective glass with Cannonballs. Models SML-48BRT-VEN SML-48BRT-VEP SML-60BRT-VEN SML-60BRT-VEP SML-72BRT-VEN SML-72BRT-VEP are equipped with Bedrock Traditional burners are require the installation of LDBT-DW48 LDBT-DW60 LDBT-DW72 (Linear Driftwood GlowFire™ Logs) as well as ½” reflective glass or Lava granules to the media bed. For either model SML-**-MBP (INCLUDED) and optional panels SML-**-FFP SML-**-MBP, SML-**-GBP, SML-**-OFBB, SML-**-SFBG (**=Size). A venting system and venting cap are not supplied, but are required for proper installation and operation. This is a B-vent system, see specific venting details on page 8.

WARNING This gas appliance must not be connected to a chimney flue servicing a solid fuel burning appliance.

BEFORE YOU BEGIN

Before beginning the installation of your fireplace chassis, media and panels, read these instructions through completely. This Summit Open Luxury Fireplace (SOLF) appliance and its approved components are safe when installed according to the installation manual and are operated as recommended by SOLF. Unless you use SOLF approved components tested for this appliance, YOU MAY CAUSE A FIRE HAZARD! The SOLF warranty will be voided by and (SOLF) disclaims any responsibility for the following actions.

1. Modification of the appliance or any of the components
2. Use of any component part not approved by SOLF in combination with this appliance
3. Installation and/or operation in a manner other that instructed in the manual
4. The burning of anything other than the type of gas approved for use in the gas appliance

The installation must conform with local codes or, in absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1/NFPA 54. NFPA 54 defines the minimum space required for installation of this appliance.

This fireplace must be installed in an unconfined space was a minimum of 50 cubic feet per 1,000 BTUs of gas output. If the space you wish to install the fireplace does not meet these requirements NFPA 54 details several actions that may be taken.

WARNING Installation of this appliance should be done by a qualified service person.

NOTICE This appliance is not intended to be used as a primary source of heat.

CAUTION Do not connect appliance before pressure testing gas piping. Damage to gas valve may result and an unsafe condition may be caused.



Manufactured by Grand Canyon Gas Logs
3515 E. Atlanta Ave. Phoenix, AZ 85040
07-00147

DO NOT REMOVE THIS LABEL
See installation & operating instructions for this model.
Contact local building officials about restrictions and
installation specifications in your area.

DATE
OF MFG.

SERIAL
#

TESTED &
LISTED BY:



ANSI Z21.50-2019(R2024)
CSA 2.22-2019(R2024)
Vented decorative
gas appliances

C US
REPORT NO. (F24-308)

MODEL: SML-☐BRT-VEN	48 ☐	60 ☐	72 ☐	MODEL: SML-☐BR-VEN	48 ☐	60 ☐	72 ☐	84 ☐	96 ☐
HIGH BTU/HR (kW):	69,000 (18.17kW)	95,000 (27.84kW)	95,000 (27.84kW)	HIGH BTU/HR (kW):	60,000 (17.58kW)	75,000 (21.98kW)	90,000 (26.38kW)	105,000 (30.74kW)	120,000 (35.13kW)
LOW BTU/HR (kW):	45,000 (13.19kW)	60,000 (17.58kW)	60,000 (17.58kW)	LOW BTU/HR (kW):	40,000 (11.72kW)	50,000 (14.65kW)	60,000 (14.65kW)	70,000 (20.49kW)	80,000 (23.42kW)
MODEL: SML-☐BRT-VEP	48 ☐	60 ☐	72 ☐	MODEL: SML-☐BR-VEP	48 ☐	60 ☐	72 ☐	84 ☐	96 ☐
HIGH BTU/HR (kW):	62,000 (18.17kW)	85,000 (21.98kW)	85,000 (21.98kW)	HIGH BTU/HR (kW):	60,000 (17.58kW)	75,000 (21.98kW)	90,000 (26.38kW)	105,000 (30.74kW)	120,000 (35.13kW)
LOW BTU/HR (kW):	30,000 (8.79kW)	40,000 (11.72kW)	40,000 (11.72kW)	LOW BTU/HR (kW):	30,000 (11.72kW)	40,000 (14.65kW)	50,000 (14.65kW)	55,000 (16.10kW)	60,000 (17.56kW)

NG Models

Altitude
Input
Reduced Input
P4
Manifold Pressure: 3.5" w.c.(NG)
Minimum Supply Pressure: 5" w.c. (NG)
Maximum Supply Pressure: 7" w.c. (NG)
Pression au Collecteur: .87wPA d'une colonne d'eau (GN)
Pression d'Alimentation Min.: 1.25wPA d'une colonne d'eau (GN)
Pression d'Alimentation Max.: 3.5wPA ** d'une colonne d'eau (GN) **
Maximum inlet pressure not to exceed 13".
Minimum clearance to combustible materials: Top, sides & back:
per standoff spacers for framing and finishing materials. For
non-combustible framing and finishing materials, see installation manual.

MANIFOLD PRESSURE:

ELECTRICAL RATING: 120V/60HZ/20AMP Dedicated
GAS TYPE: NATURAL GAS / LIQUID PROPANE

LP Models

Élévation
Alimentation / Alimentation Réduite
P4
Manifold Pressure: 10" w.c. (LP)
Minimum Supply Pressure: 11" w.c. (LP)
Max. Supply Pressure: 14" w.c. (LP)
Pression au Collecteur: 2.40wPA d'une colonne d'eau (LP)
Pression d'Alimentation Min.: 2.74wPA d'une colonne d'eau (LP)
Pression d'Alimentation Max.: 3.5wPA * d'une colonne d'eau (LP)
** Pression d'alimentation maximale ne devait pas dépasser
3.5wPA. Dégagements minimaux des matériaux combustibles:
Dessus, côtés et arrière: selon les espaces de dégagements
pour les matériaux d'ossature selon le manuel du
propriétaire pour les matériaux de finition.

VENTED DECORATIVE GAS APPLIANCE: NOT A SOURCE OF HEAT; NOT FOR USE WITH SOLID FUEL.

APPAREIL DÉCORATIF À GAZ VENTILÉ: PAS UNE SOURCE DE CHALEUR; NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE.

The installation, including provisions for combustion, ventilation air, and required minimum permanent vent opening,
must conform with National Fuel Gas Code (ANSI Z223.1/NFPA 54) and applicable local building codes.

L'installation, y compris les dispositions pour la combustion, l'air de ventilation et l'ouverture de ventilation permanente minimale requise,
doit être conforme au National Fuel Gas Code (ANSI Z223.1 / NFPA 54) et aux codes du bâtiment locaux applicables.

⚠ WARNING: This gas appliance **must not** be connected to a chimney fuel servicing a solid fuel burning appliance.

⚠ AVERTISSEMENT: Cet appareil à gaz ne doit pas être raccordé à un combustible
de cheminée desservant un appareil à combustible solide.

⚠ WARNING: THIS FIREPLACE IS NOT INTENDED FOR BURNING SOLID FUELS.

⚠ AVERTISSEMENT: CE FOYER N'EST PAS DESTINÉ À BRÛLER DES COMBUSTIBLES SOLIDES.

⚠ WARNING: NOT FOR USE WITH GLASS DOORS.

⚠ AVERTISSEMENT: NE PAS UTILISER AVEC DES PORTES EN VERRE.

HOW TO ORDER

MODEL #ID	
SML	Summit Linear Luxury Fireplace
##	Size
BR	Bedrock Contemporary
BRT	Bedrock Traditional
VEN	Variable Electronic Natural Gas
VEP	Variable Electronic Propane

FIREPLACE BURNER SPECIFICATIONS - BEDROCK CONTEMPORARY MODELS

NATURAL GAS MODELS

	Rated	Rated	Rated Manifold	Rated Inlet	Rated Inlet
LP Models	High	Low	Pressure	min	max
SML-48BR-VEN	60,000	30,000	3.5	5	7
SML-60BR-VEN	75,000	40,000	3.5	5	7
SML-72BR-VEN	90,000	50,000	3.5	5	7
SML-84BR-VEN	105,000	55,000	3.5	5	7
SML-96BR-VEN	120,000	60,000	3.5	5	7

LIQUID PROPANE MODELS

	Rated	Rated	Rated Manifold	Rated Inlet	Rated Inlet
LP Models	High	Low	Pressure	min	max
SML-48BR-VEP	60,000	30,000	10	11	14
SML-60BR-VEP	75,000	40,000	10	11	14
SML-72BR-VEP	90,000	50,000	10	11	14
SML-84BR-VEP	105,000	55,000	10	11	14
SML-96BR-VEP	120,000	60,000	10	11	14

FIREPLACE BURNER SPECIFICATIONS - BEDROCK CONTEMPORARY MODELS

NATURAL GAS MODELS

	Rated	Rated	Rated Manifold	Rated Inlet	Rated Inlet
NG Models	High	Low	Pressure	min	max
SML-48BRT-VEN	69,000	45,000	3.5	5	7
SML-60BRT-VEN	95,000	60,000	3.5	5	7
SML-72BRT-VEN	95,000	60,000	3.5	5	7

LIQUID PROPANE MODELS

	Rated	Rated	Rated Manifold	Rated Inlet	Rated Inlet
LP Models	High	Low	Pressure	min	max
SML-48BRT-VEP	62,000	30,000	10	11	14
SML-60BRT-VEP	85,000	40,000	10	11	14
SML-72BRT-VEP	85,000	40,000	10	11	14

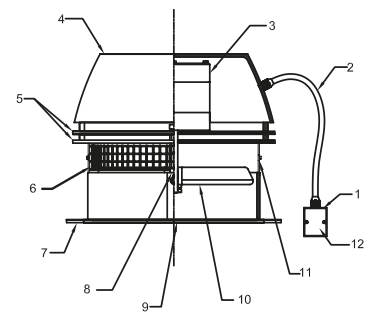
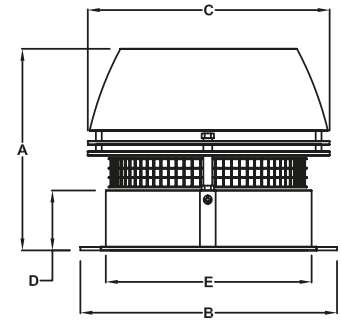
LOG IDENTIFICATION

LDBT-DW48	Bedrock Traditional 48" Western Driftwood logs
LDBT-DW60	Bedrock Traditional 60" Western Driftwood logs
LDBT-DW72	Bedrock Traditional 72" Western Driftwood logs

*BRT models ONLY

Model	Description
SML-PV-KIT	Summit Power-vent Kit Includes, (2) wire harnesses, Metal Brackets, Air Pressure Switch, Chimney Probe and Silicone Tubing
SML-PV-12/14	12" x 14" Steel Chimney Adaptor for RS 014 Fan
SML-PV-12/16	12" x 16" Steel Chimney Adaptor for RS 016 Fan
SML-PV-RS014	RS 014 Power-vent for Summit Linear 48", 60" & 72"
SML-PV-RS016	RS 016 Power-vent for Summit Linear 84" & 96"

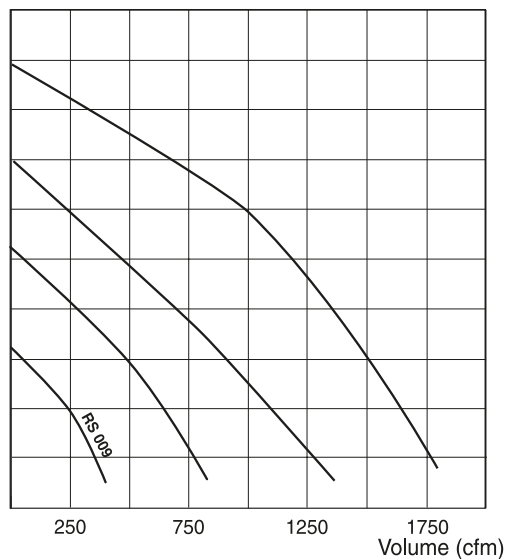
EXODRAFT CHIMNEY FAN MODEL		RS 014	RS 016
Discharge		Horizontal	
Fan type		Axial vane	
Motor type		Totally enclosed, Variable speed, Class H	
Voltage		V AC	1x120
RPM		1600	
CFM	0.0 Ps	1400	1950
Amperage	Amps	1.4	3.9
Motor output	HP	1/7	1/3
	kW	0.1	0.25
Weight	lbs	47	61
	kg	21	28
Dimensions	A	in	13.1
		mm	334
	B x B	in	16.6
		mm	422
	C	in	15.5
		mm	395
	D	in	3.9
		mm	100
	E	in	13.5
		mm	342
Temperature Rating	Interm.	575 °F/300 °C	
	Cont.	482 °F/250 °C	



- 1 Junction Box
- 2 Conduit/cord
- 3 Motor
- 4 Motor Housing
- 5 Cooling Plates
- 6 Bird Screen
- 7 Base Plate
- 8 Locking Nut
- 9 Inlet
- 10 Axial Vane
- 11 Hinges
- 12 Capacitor (inside junction box)

Capacity

P_s (inW.C.)



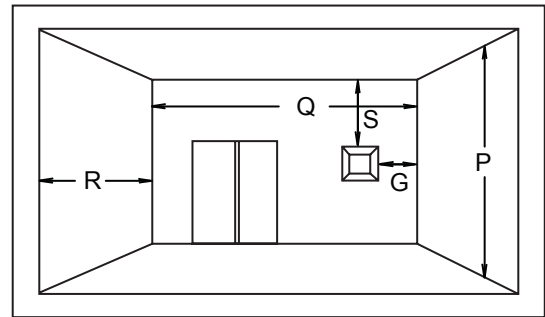
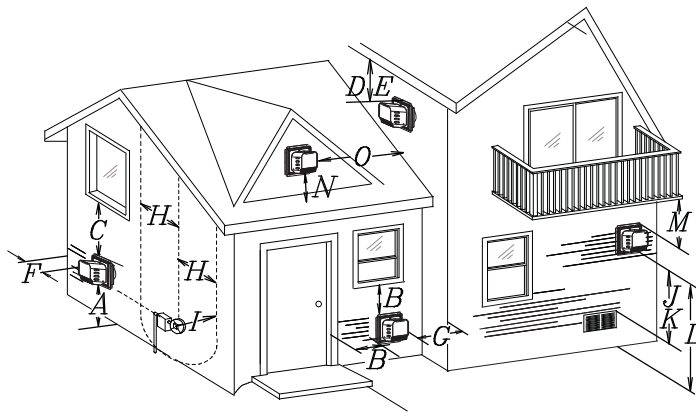
Sizes

Model	Fireplace sizes
RS 014	48", 60" & 72"
RS 016	84" & 96"

Sound data

Model	Lw dB (measured in accordance with ISO 3744)							Lp dB(A)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
RS 014	75	69	65	62	57	51	44	41
RS 016	81	76	72	69	64	58	52	47

COVERED BALCONY APPLICATIONS ††*



$Q_{\text{MIN}} = 3 \text{ feet}$ (0.9m)	$R_{\text{MAX}} = 2 \times Q_{\text{ACTUAL}}$	$R_{\text{MAX}} \leq 15 \text{ feet}$ (4.6m)
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INSTALLATIONS			
	CANADA	U.S.A.	
A	12" (304.8mm)	12" (304.8mm)	Clearance above grade, veranda porch, deck or balcony.
B	12" (304.8mm) ^Δ	9" (228.6mm) ^Δ	Clearance to windows or doors that open.
C	12" (304.8mm)*	12" (304.8mm)*	Clearance to permanently closed windows.
D	18" (457.2mm)**	18" (457.2mm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.
E	12" (304.8mm)**	12" (304.8mm)**	Clearance to unventilated soffit.
F	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.
G	0" (0mm)	0" (0mm)	Clearance to an inside non-combustible corner wall or protruding non-combustible obstructions (chimney, etc.).
	2" (50.8mm)	2" (50.8mm)	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).
H	3' (0.9m)	3' (0.9m)***	Clearance to each side of the center line extended above the meter / regulator assembly to a maximum vertical distance of 15' (4.6m).
I	3' (0.9m)	3' (0.9m)***	Clearance to a service regulator vent outlet.
J	12" (304.8mm)	9" (228.6mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
K	6' (1.8m)	3' (0.9m)	Clearance to a mechanical air supply inlet.
L	7' (2.1m) ‡	7' (2.1m)***	Clearance above a paved sidewalk or paved driveway located on public property.
M	12" (304.8mm)††	12" (304.8mm)***	Clearance under a veranda, porch or deck.
N	12" (304.8mm)	12" (304.8mm)	Clearance above the roof.
O	2' (0.6m) †*	2' (0.6m) †*	Clearance from an adjacent wall including neighbouring buildings.
P	8' (2.4m)	8' (2.4m)	Roof must be non-combustible without openings.
Q	3' (0.9m)	3' (0.9m)	See chart for wider wall dimensions.
R	6' (1.8m)	6' (1.8m)	See chart for deeper wall dimensions. The terminal shall not be installed on any wall that has an opening between the terminal and the open side of the structure.
S	12" (304.8mm)	12" (304.8mm)	Clearance under a covered balcony

^Δ The terminal shall not be located less than 6 feet (1.8m) under a window that opens on a horizontal plane in a structure with three walls and a roof.

* Recommended to prevent condensation on windows and thermal breakage

** It is recommended to maximize the distance to vinyl clad soffits.

*** This is a recommended distance. For additional requirements check local codes.

‡ A vent shall not terminate where it may cause hazardous frost or ice accumulations on adjacent property surfaces..

†† Permitted only if the veranda, porch, or deck is fully open on a minimum of two sides beneath the door.

†* Recommended to prevent recirculation of exhaust products. For additional requirements check local codes.

††* Permitted only if the balcony is fully open on a minimum of one side.

COMMONWEALTH OF MASSACHUSETTS REQUIREMENTS

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Install this appliance in accordance with Massachusetts Rules and Regulations 248 C.M.R. Sections 4.00 through 8.00.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shutoff must be a T-handle type valve.

MINIMUM CLEARANCE TO COMBUSTIBLES

Back and sides of fireplace	0" (0 mm) min.
Floor**	0" (0 mm) min.
Perpendicular wall to opening	19" (483 mm) min.
Top of fireplace	0" or top of studs (0 mm) min.
Mantel clearances	see Mantels, Page 23
Chimney outer pipe surface	1" (26 mm) min.

MAKE-UP AIR REQUIREMENTS

Summit size	Configuration	CFM
96"	Front View	558
84"	Front View	475
72"	Front View	404
60"	Front View	341
48"	Front View	276
96"	Corner	655
84"	Corner	589
72"	Corner	518
60"	Corner	453
48"	Corner	393
96"	Bay	795
84"	Bay	698
72"	Bay	633
60"	Bay	563
48"	Bay	499

 **WARNING** Adequate fresh air must be provided for combustion; otherwise, improper operation and inadequate venting of deadly flue gases may result.

ALL Summit Linear Fireplaces are designed and equipped to use 12" B-Type venting systems. Customers can use any manufacturer of the 12" B-Vent as long as the pipe is UL 441 listed. B-Venting systems can be used with high wind or standard termination caps and can be purchased through any 3rd party venting manufacturer that meets the UL 441 requirements. The 12" B-Type venting **MUST** be connected to the appliance and vented to the outside of the building. Summit Linear Fireplaces defines the installation standards of this product as illustrated (see Figure 7). IF THE STANDARD VENTILATION RUN CANNOT BE ACHIEVED A POWER-VENT FAN **MUST** BE INSTALLED.

Standing code requirement concerning vent installations may vary within your state, province or local codes jurisdiction. Therefore, it is recommended that you check with your local building codes for specific requirements or in absence of local codes, follow Section 7.0 of the current National Fuel Gas Code ANSI Z223.1/NFPA 54. This gas appliance must be vented to the outdoors only and may not be terminated into an attic space or into a chimney flue servicing a solid-fuel burning appliance.

Power-vent chimney run installation Requirements:

Minimum Vent Length – 5'
 Maximum Vertical Run – 100'
 Maximum Horizontal Run – 100'
 Maximum 45 Deg. Elbows – 6 sets
 Maximum 90 Deg Elbow – 4

When adding an exodraft power-vent to a Summit 12" B-Vent chimney vertical & horizontal ventilation runs can be achieved per the above requirements. For horizontal ventilation runs it is recommended 1/8" rise per linear foot to prevent negative vent runs. **NEGATIVE** ventilation runs are **NOT** permitted. If your desired ventilation installation does not meet the above requirements, please contact Summit Open Luxury Fireplace who will consult with Enervex Exodraft fan to determine if the desired ventilation run can be achieved. 800-255-2923.

For Vertical Roof terminations it is recommended to use a chase to support the vent pipe and the weight of the power-vent. IF vent pipe plus power-vent is taller than 3' above the roof, roof stabilizers **MUST** be used to prevent the pipe from breaking in high wind areas.

⚠ WARNING This appliance must be properly connected to a system and must not be connected to a chimney flue servicing a separate solid fuel burning appliance.

⚠ WARNING A Power-vent fan **MUST** be installed on any Summit Fireplace that **CANNOT** meet the Minimum vent run as indicated in Figure 7 of this page. **ANY** additional elbows, shorter or horizontal termination can be achieved with the addition of a Power-vent.

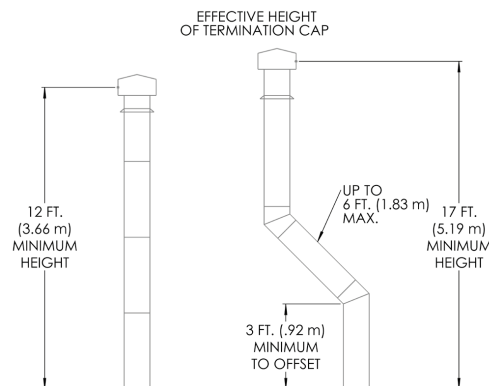


Figure 7 - MINIMUM Vertical Terminations without Power-vent

INSTALLING OUTSIDE AIR KIT

ALL Summit Linear Fireplaces are supplied with knockouts and collars to connect to outside combustion air with 4" collars. Fireplaces are **NOT** supplied with the 4" flex duct. It is recommended that the outside air system be used whenever possible as allowed by municipalities and building codes. Connect 4" Class-1 flex duct or metal vent to the duct collar on the side or back of the firebox, run duct to the fresh air source and terminate using duct termination cap (**NOT** Supplied). Ensure that a 1/8" screen mesh must cover the air intake.

ALL Summit Fireplace Models (with the use of the Outside Air Kit) can be installed in a bedroom (in the United States) which has a total volume of unconfined space appropriate to the particular installation. Refer to the National Fuel Gas Code ANSI Z223.1/NFPA 54 - (current edition), the Uniform Mechanical Code - (current edition), and Local Building Officials for the options allowed in obtaining an effective bedroom volume of unconfined space.

INSTALLING CHIMNEY/VENT SYSTEM CONTINUED

The 10' Rule of Thumb is a guide for calculating chimney height that works under most conditions. However, many factors can cause the need for additional chimney height beyond what 10' Rule of Thumb would indicate. Topographical factors can cause high-pressure zones, which prevent a chimney from drawing. This can occur if the house is located in a low-lying area, in a valley or near the base of a cliff or hillside. The same situation can occur if the chimney is near other steep rooflines or tall buildings. Areas with high winds also frequently require higher than normal chimneys. Certain styles of architecture tend to interfere with a fireplace's draw. If the room in which the fireplace is located has a very high ceiling, smoke may enter the room unless the chimney is terminated at a level higher than that of the ceiling, even if the 10' Rule of Thumb indicates a shorter chimney height.

⚠ WARNING This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

Note: A draft hood is installed and is in the same atmospheric pressure zone as the combustion air inlet to the appliance and is located so that the relief opening is accessible for checking vent operation.

FUNCTION

Use

The **exodraft** model RS chimney fan is a chimney top mounted or horizontal mounted ventilator that is designed to provide large flue gas volume capacities. It is designed and intended for use with residential gas or oil fired central space heating systems, for volume water heating or for combination space heating/volume water heating. It is also suitable for use with gas-fired fireplaces, stoves, BBQ's or residential pizza ovens.

This product is developed to prevent draft problems from occurring by creating a mechanical draft in venting systems and thereby also increasing the capacity and efficiency of a venting system.

The use of the RS Chimney Fan is not restricted to any type of chimney, because the fan creates a negative pressure (below atmospheric) in the chimney or vent.

Code compliance

Installations must conform to requirements of the authority having jurisdiction. Where required by the authority having jurisdiction, the installation must also conform to the standard for Draft Equipment and The National Fuel Gas Code, ANSI Z223.1/NFPA 54.

All electrical wiring must be in accordance with the requirements of authority having jurisdiction or, in the absence of such requirements, with the National Electrical Code, NFPA70.

Listing

The RS is tested and listed to UL Standard 378, Standard for Draft Equipment. The fan is manufactured at an ISO9001 certified plant and bears the European CE compliance label.

The chimney fan must be interlocked with the connected appliance(s) to insure proper combustions and to avoid flue gas spillage.

ETL Intertek Listing # 4004824

WARRANTY

2-Year Factory Warranty

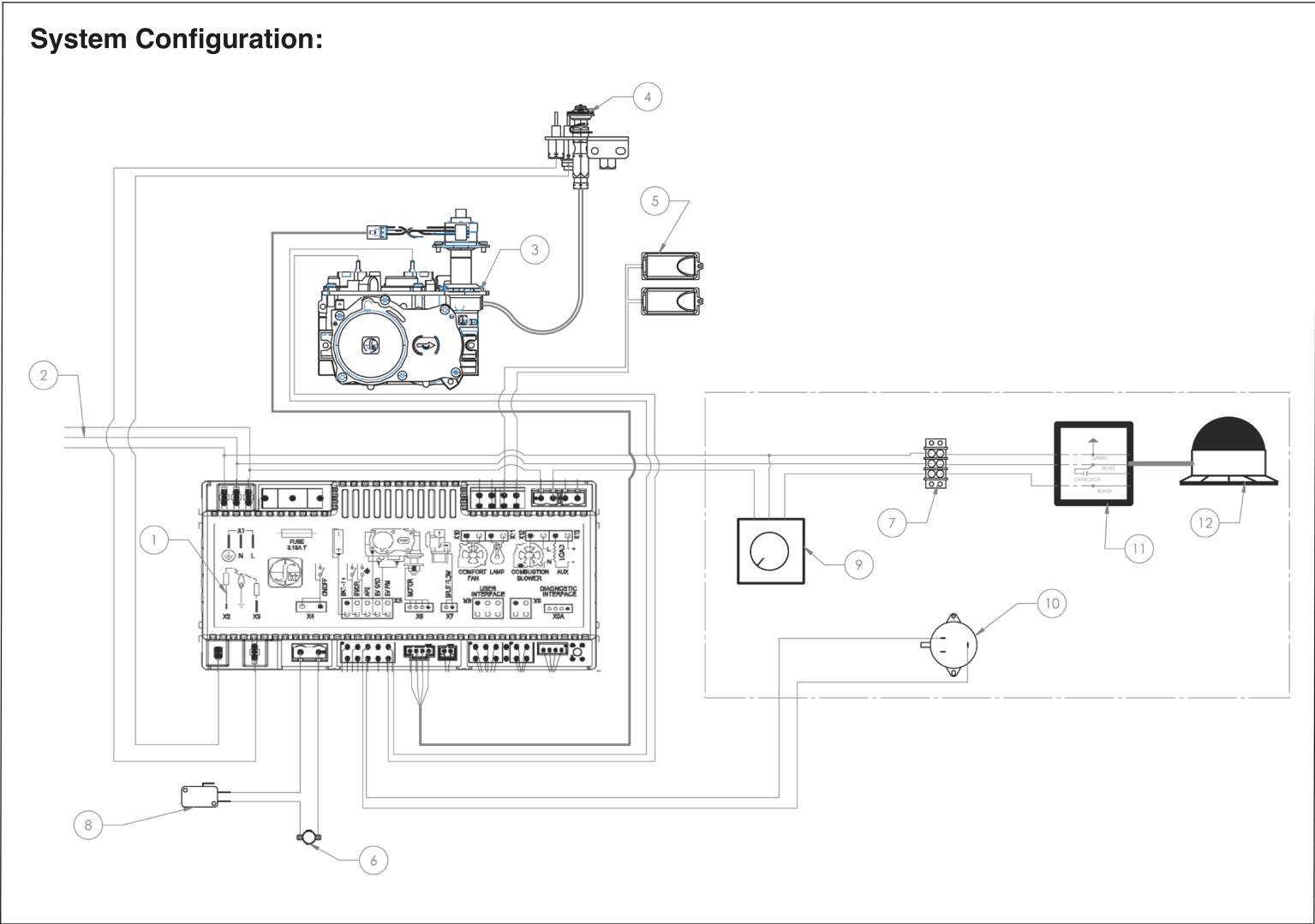
We promise the original user that we will replace or repair as we may elect, any part or parts of the new RS Chimney Fan which are defective in material or workmanship without charge for parts and labor (not including labor for dismantling and installation, freight, etc.) during the first 2-years following the date of invoice.

10-Year Corrosion Perforation Warranty

We promise the original user that we will replace or repair as we may elect, any part or parts of the RS Chimney Fan which are perforated due to corrosion without charge for parts or labor (not including dismantling and installation, freight, etc.) during the first 10-years following the date of invoice.

Complete warranty conditions are available at www.enervex.com or request a copy at: info@enervex.com or at tel.: 1-800.255.2923.

System Configuration:



Sl. No	Part Number	Description	Qty.
1	0.584.665	Proflame II IFC Board	1
2		Power Inlet	1
3	0.885.006 (NG)	SIT Valve	1
4	0.199.160 (NG)	Pilot	1
5	01-00202	Dome Lights	2
6		Spill Switch	1
7		Terminal Block	1
8		Limit Switch	1
9		Variable Speed Switch	1
10		Pressure Switch	1
11		Junction Box	1
12		Enervex Fan	1

Summit Linear Manual Reset Thermostat	
Model	Temperature Rating
Summit Linear 48	265°
Summit Linear 60	290°
Summit Linear 72	290°
Summit Linear 84	250°
Summit Linear 96	250°

INSTALLATION STEPS FOR ENERVEX POWER VENT

RS-14/RS-16 Fan to SIT IFC Board 0.584.665

MATERIALS NEEDED (BOM):

SI No.	Description	Quantity	Supplier
1	Enervex Fan (RS-14/RS-16) 120V AC3.2	1	RPG Brands/Enervex
2	SIR IFC 0.584.665 Board If not installed.	1	RPG Brands/Enervex
3	Power Vent Wiring Harness 01-00217	1	RPG Brands
	3.1 Enervex Fan Wiring Harness with Terminal Block	1	
	3.2 Air Pressure Switch Wiring Harness	1	
	3.3 Bracket: Air Pressure Switch 13-00131	1	
	3.4 Bracket: Variable Speed Switch 02-01201	1	
4	Air Pressure Switch	1	RPG Brands
5	Air Pressure Probe	1	RPG Brands
6	Variable Speed Switch	1	RPG Brands
7	High-temp Silicone Tubing	1	RPG Brands
8	8-32 screws	8	RPG Brands
9	¼" stainless steel or copper tubing	1	Installer
10	Power Wiring to the Fan	1	Installer
11	Approved sealant and fasteners	1	Installer

INSTALLATION STEPS

1. Unscrew the fly-cut deck and remove it from the front of the fireplace.
2. Locate the IFC board in the Base.
 - a. Optional: Remove the LED light track near it.



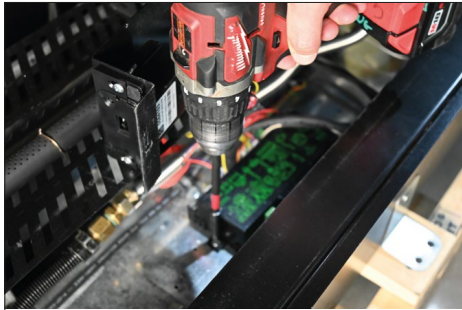
Step 2A

INSTALLATION STEPS FOR ENERVEX POWER VENT

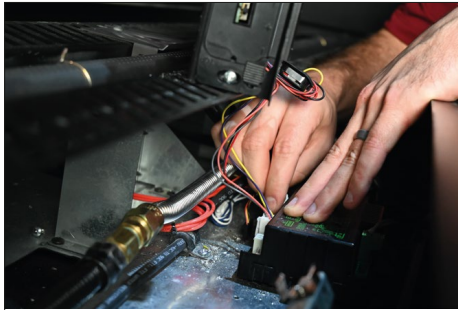
RS-14/RS-16 Fan to SIT IFC Board 0.584.665

3. Disconnect all wire connections from the IFC board. (Verify that the IFC board is 0.584.665. If not, order the correct board.)

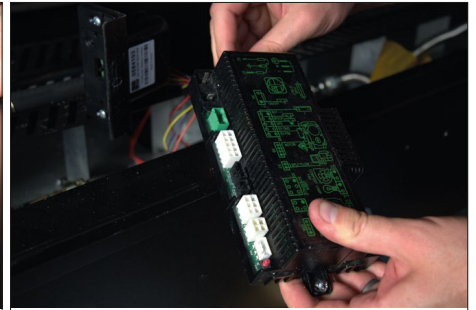
a. Optional: Take out the IFC Board for easier access.



Step 3

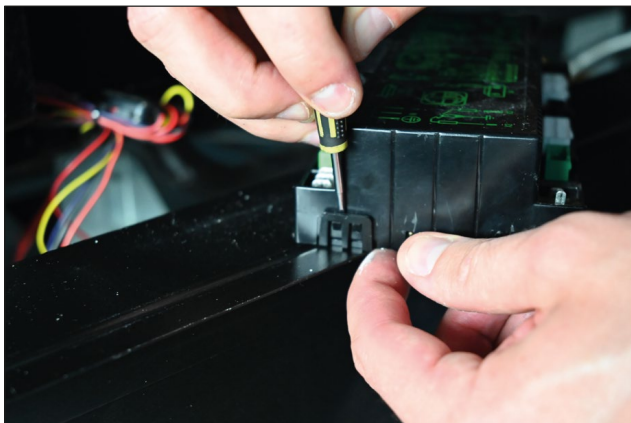


Step 3A

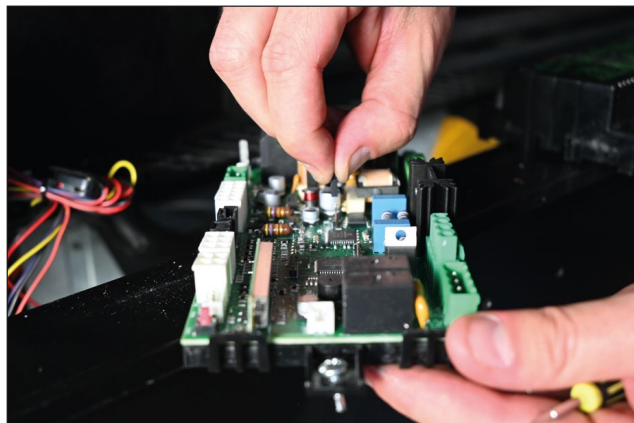


Step 3B

4. Remove the plastic housing on the IFC board. Locate and remove the jumper (see Step 4A).

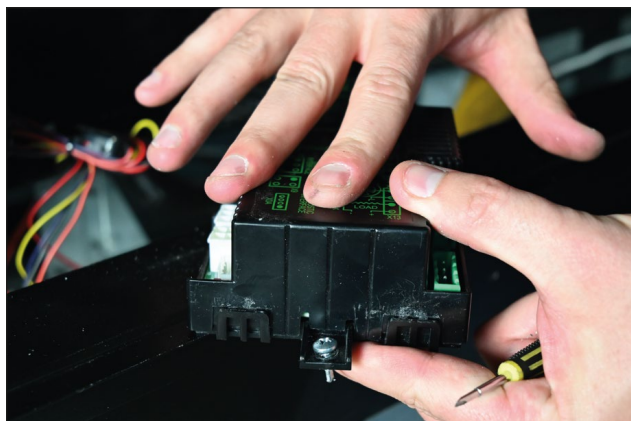


Step 4

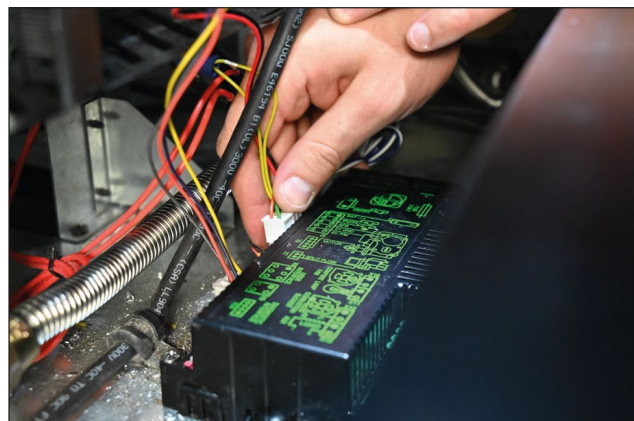


Step 4A

5. Reinstall the plastic housing on the IFC board and reconnect all wiring except the 110V power input.



Step 5

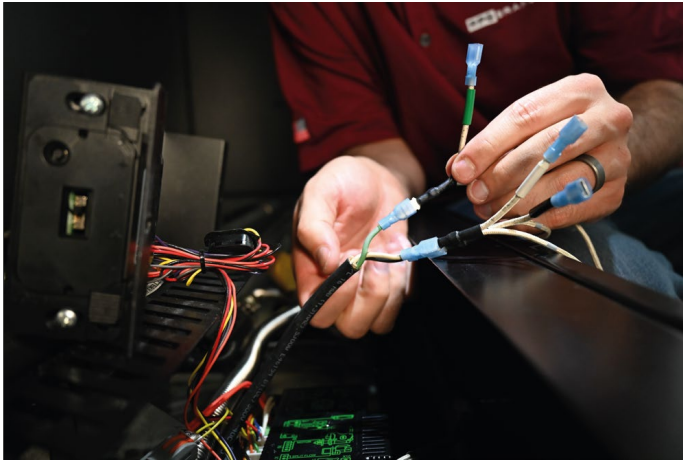


Step 5A

INSTALLATION STEPS FOR ENERVEX POWER VENT

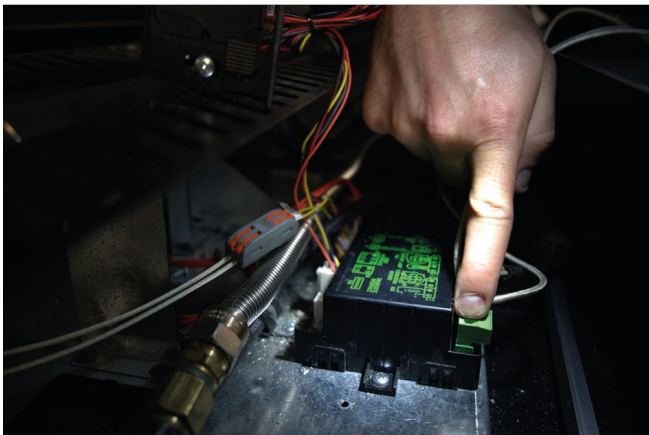
RS-14/RS-16 Fan to SIT IFC Board 0.584.665

6. Connect the male spade connectors from wiring harness 01-00217 to the color-coded female spade terminals for power input (as shown in picture Step 6) and connect the female spade connector from 01-00217 to the IFC Board.

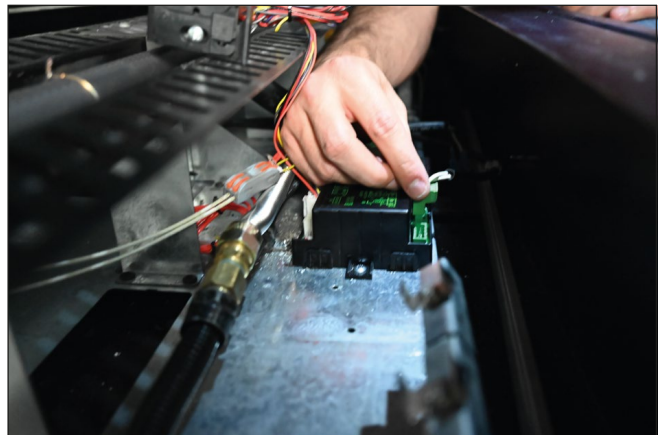


Step 6

7. Plug the 4-pin Phoenix connector from the 01-00217 harness into the X12/X13 port on the IFC board (see picture Step 7A).



Step 7



Step 7A

INSTALLATION STEPS FOR ENERVEX POWER VENT

RS-14/RS-16 Fan to SIT IFC Board 0.584.665

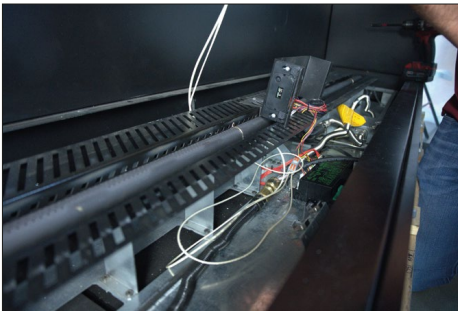
8. Mount the variable speed switch to the bracket 02-01201 and screw it to the base of the burner in the Summit Fireplace (see picture Step 8) and set the switch to ON.



Step 8

9. Route the wire harness from the IFC Board to the variable speed switch and splice in the live (BLACK) and the ground (GREEN) (see picture XX).

10. Route the wiring harness to the back side and screw the terminal block to the back-right end of the Summit Fireplace (see pictures Step 10-10B).



Step 10



Step 10A



Step 10B

INSTALLATION STEPS FOR ENERVEX POWER VENT

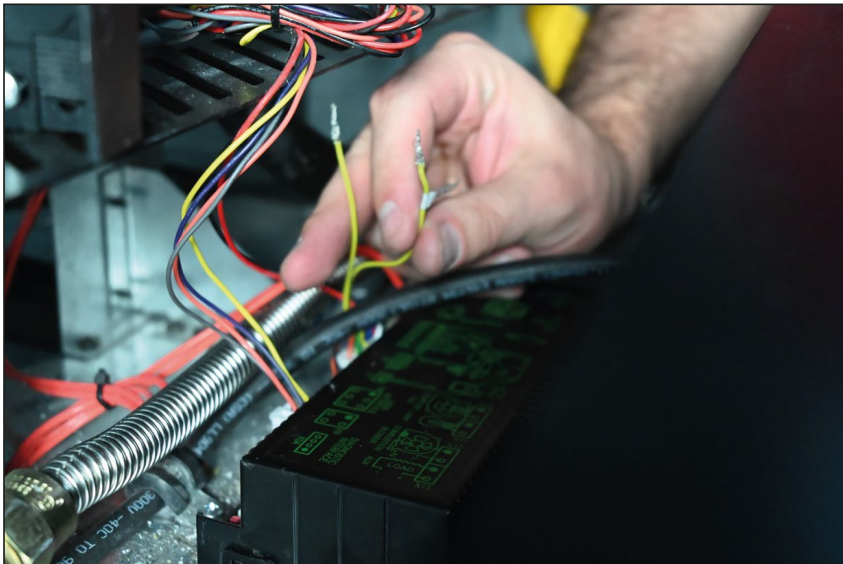
RS-14/RS-16 Fan to SIT IFC Board 0.584.665

11. Mount the air pressure switch to the bracket 13-00131 and screw it to the base of the burner in the fireplace (see picture Step 11).



Step 11

12. Locate the X5 port and identify the APS wire. Splice the yellow-coated loop wire (see picture Step 12).

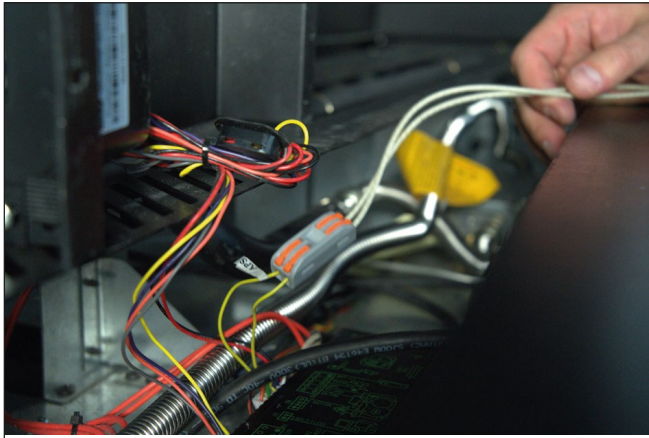


Step 12

INSTALLATION STEPS FOR ENERVEX POWER VENT

RS-14/RS-16 Fan to SIT IFC Board 0.584.665

13. Clip the lever connector to the spliced APS wire and connect the other end to the air pressure switch (see picture 13A) in the normally open position.



Step 13



Step 13A

14. Connect one end of a high-temp silicone tube to the air pressure switch (NEGATIVE P2) and route the other end out of the fireplace through one of the smaller knockouts.



Step 14



Step 14A

INSTALLATION STEPS FOR ENERVEX POWER VENT

RS-14/RS-16 Fan to SIT IFC Board 0.584.665

15. Install the probe into the flue.

The probe must be installed between the appliance and the exhaust fan.

Locate the probe at least a distance of three feet (3') away from any elbow or the top of the fireplace. For fireplace installations the probe should be installed close to the fan inlet. See Fig. 8

To produce an accurate pressure reading, the probe should be installed flush with the inner wall of the chimney pipe. Drill 1/4" hole for the chimney probe and attached the chimney probe bracket to the pipe using 1/4" self-tapping screws. The insert the tube into the drilled hole and use the brass compression fittings to secure the tube in-place in the bracket.

16. Use a high-temp silicone tube to connect the probe to a 1/4" stainless steel or copper tube for the main pressure line.

17. Route the stainless steel or copper tubing with a continuous downward slope and connect the other end of the tube to the silicone tubing from the air pressure switch negative port.

18. Secure all tubing with clamps or brackets to prevent vibration fatigue.

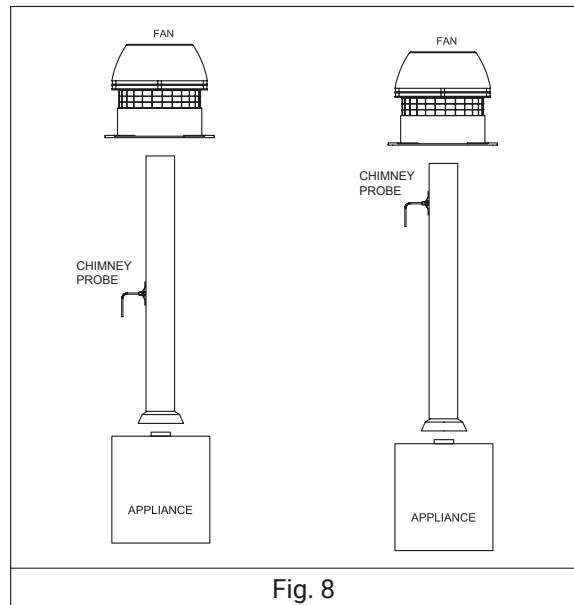
19. Install the Enervex PV fan on top of the flue per the instruction on the next page. Ensure the fan is level and secured with the provided flange.

20. Wire the Fan to the junction box and mount the junction box to the roof and run the power wiring through the wall to the right side of the Summit Fireplace. Route the wiring inside through a small knockout.

21. Connect the fan power wiring to the terminal block installed in Step 9 (Make sure to color match the wires).

22. Reinstall the LED light track.

23. Reinstall the fly-cut deck and fasten it with screws.



CALIBRATION AND VERIFICATION STEPS:

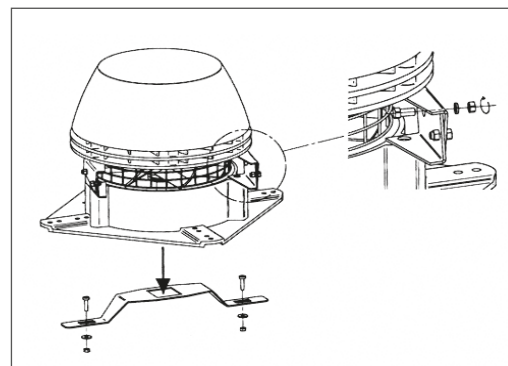
1. Turn the fireplace ON, the fan should turn on immediately.
2. With the fan running, adjust the set screw on the draft switch so the switch only closes when proper draft is detected by the pressure probe.
3. Follow the Enervex specifications for draft setting (typically between $-0.05"$ to $-0.08"$ w.c.).
4. Turn OFF the fan while the fireplace is burning.
5. Verify that the SIT IFC shuts off the gas valve within a few seconds.
6. Repeat the shutdown test to confirm consistent operation.
7. Perform spillage tests for both cold start and warm start conditions per ANSI Z21.50 Section 5.26.
8. Confirm that no combustion gases spill into the room during either test.

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TRANSPORT SAFETY DEVICE

If a transport safety device is present, remove it from the vane and make sure that the vane can revolve without hindrance.

RS 14/16: Before mounting, the transport safety device on the hinges must be removed.



SINGLE FAN ON STEEL CHIMNEY

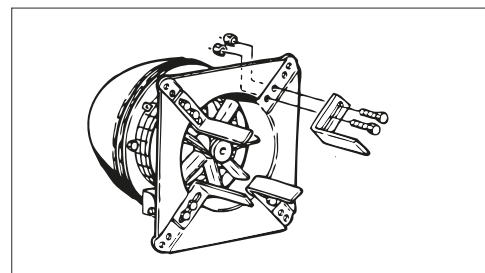
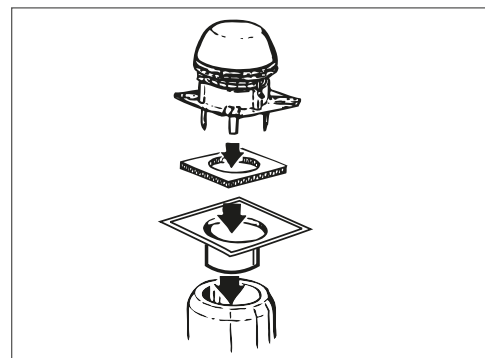
Step 1: Prepare fan location

- ☒ If a stack cap is already installed, it must be removed. The steel chimney adapter (SCA) slides right into the chimney, where the long collar engagement ensures safe anchoring. If necessary, the adapter can be secured by means of long self-tapping stainless steel screws into the side of the collar through the chimney wall.



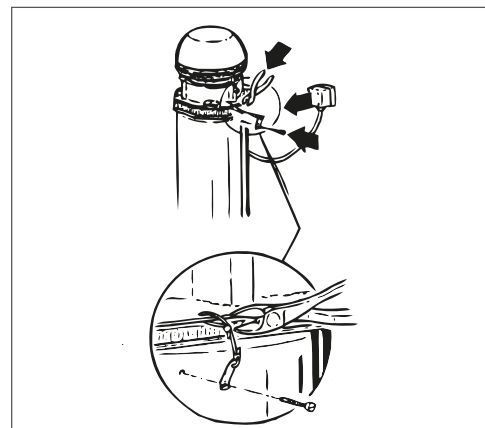
NOTE: If the steel chimney is air cooled, a special adapter for such chimney must be used.

- ☒ Measure the inside diameter of the flue and cut a corresponding hole in the center of the fiber mat. If the flue is so big that the throat in the adapter has been reduced to fit the throat of the fan, the hole in the fiber mat should correspond to the throat.



Step 2: Preparation of fan

- ☒ Locate the installation brackets in the grooves on the underside of the fan base, using the bolts and nuts supplied to secure the brackets. Note that the bolts shall be installed from the bottom side in the two inner holes.
- ☒ Adjust the final position of the installation brackets ensuring that there is a small gap between the brackets and the flue wall/adapter throat. Tighten the nuts. If the brackets touch the flue wall, it may create some vibration noise.



Step 3: Attaching the fan

- ☒ The **exodraft** chimney fan is now ready for installation on the top of the chimney. Place the fiber mat on the top of the adapter, and place the fan on top of the mat. High temperature silicone can be applied on the side of the mat, but is not required. It can also be painted. It is necessary to bolt the fan to the chimney and/or chimney adapter.



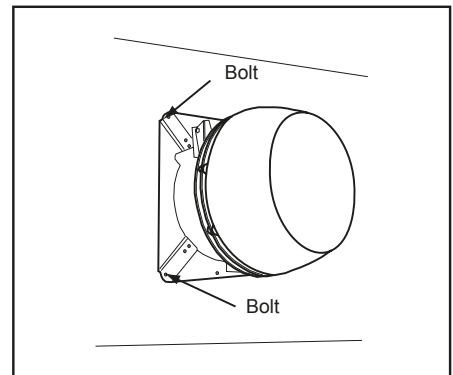
CAUTION

Under conditions with extremely strong winds surrounding the top of the chimney, the chimney fan must be secured by steel wires supplied with the fan.

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WALL MOUNTING OF CHIMNEY FAN

- ☒ When mounting the chimney fan on a wall, the installation instructions for installation on a steel chimney should be followed. Use of the adapter SCA can make the installation easier, but is not a requirement.
- ☒ To ease installation, detach the fan base by removing the bolts holding the hinges together. Center the fan base over the outlet and bolt the base onto the wall with the hinges pointing upwards.
- ☒ After mounting the base securely, attach the fan motor housing by reassembling the fan hinges. Seal with silicone all around the fiber mat to prevent rain from entering the flue.



NOTE

A safety device that prevents the heating appliance operation, in case of a power failure or inadequate draft situation, must be installed.

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GENERAL

DANGER : Turn off electrical power before servicing. Contact with live electric components can cause shock or death.

All electrical wiring must be in accordance with requirements of authority having jurisdiction or, in absence of such requirements, with National Electrical Code NFPA 70 — latest edition. If an external electrical source is utilized, system must be electrically grounded in accordance with requirements of the authority having jurisdiction or, in the absence of such requirements, with the National Electrical Code NFPA 70 — latest edition.

Power requirements for the system depends on the fan size. Electrical requirements are:

- ☒ **RS 014: 1x120 V/60Hz, 1.4 Amps**
- ☒ **RS 016: 1x120 V/60Hz, 3.9 Amps**

The **exodraft** chimney fans have a split capacitor motor with infinitely variable speed.

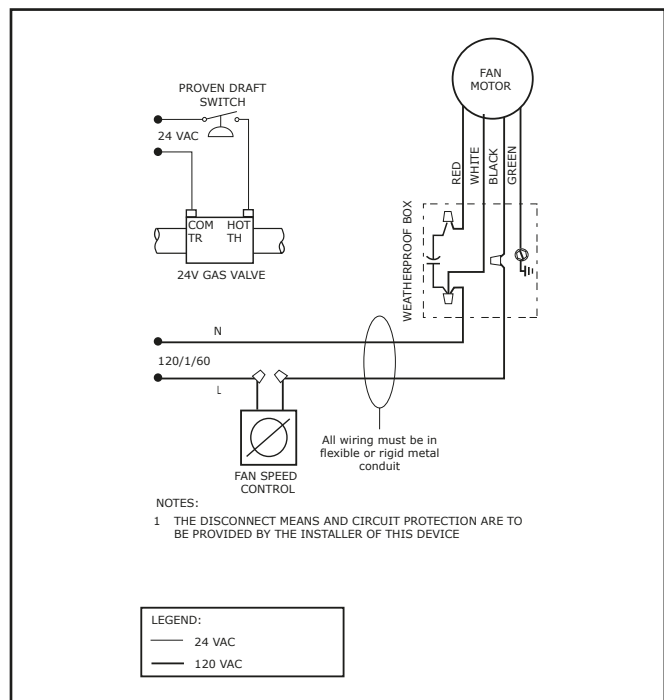
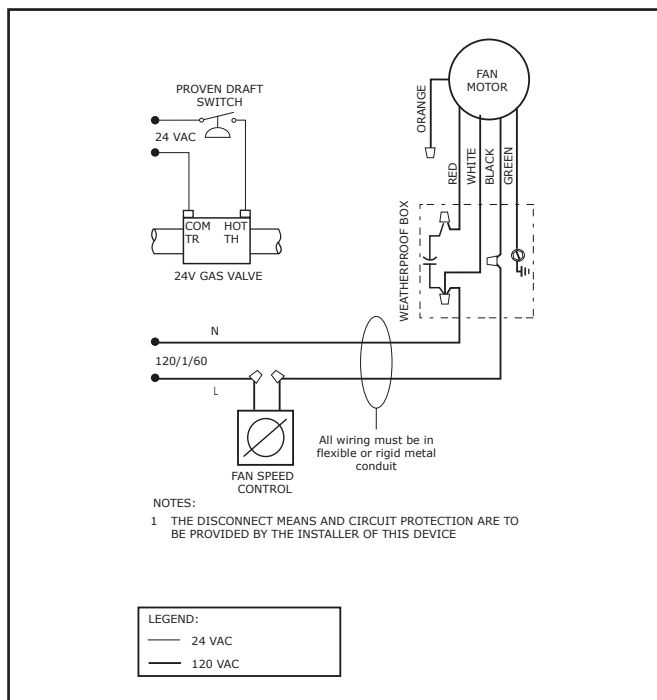
The fan speed control supplied is rated 1x120V/60 Hz and 5 Amps. It has an adjustable low voltage set point of min. 65 V +/- 5 V.



NOTICE: If any of the original wire supplied with the system must be replaced, use similar wire of the same temperature rating. Otherwise, insulation may melt or degrade, exposing bare wire.

WIRING DIAGRAM FOR SINGLE FAN WITH FAN SPEED CONTROL

The wiring diagram below shows the wiring of the chimney fan and how it is connected to the fan speed control.



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SYSTEM TESTING

Before any adjustments are made to the system, follow these procedures:

1. Turn the **exodraft** chimney fan ON and make sure that it is operating. Increase and decrease the speed of the fan by adjusting the fan speed control to make sure it is operating properly.
2. Turn the fan OFF and make sure the pressure switch opens, so the power to the circuit, it controls, is disconnected.



DANGER

Check other heating appliances (water heater, furnace, fireplace etc.) for proper operation while the chimney fan is operating. Make sure no flue gases are spilling out as this can lead to carbon monoxide poisoning.

ADJUSTING THE CHIMNEY FAN SPEED

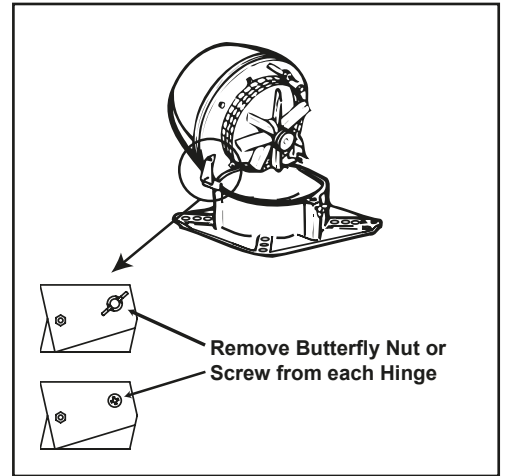
- ☒ Start up all appliances. Use the fan speed control to set the speed of the chimney fan so no back pressure is experienced anywhere in the system. Check the system for flue gas spillage. Mark this setting on the fan speed control cover.

ADJUSTING THE PROVEN DRAFT SWITCH SETTING

- ☒ Remove the snap-on cover from the conduit enclosure by loosening its retaining screw. Turn the slotted Adjustment Screw clockwise to raise the set point pressure and counter clockwise to lower the set point.
- ☒ Set the adjustment to its lowest position. With all appliances operating, reduce the speed of the fan to the set point, where the appliance(s) starts to spill flue gas. Increase the speed of the fan gradually to the point where there is no more spillage. Raise the switch's set point so it opens. Return the fan speed to the original setting marked on the cover.
- ☒ The system is now adjusted so the flue gas spillage will disconnect the heating appliance(s).
- ☒ The procedure described here may not cover all Proven Draft Switches, so please review the Installation Manual for the switch being used.

PRIOR TO CLEANING

Remove butterfly nut or screw from each hinge prior to cleaning if still attached.



CARE AND CLEANING

The **exodraft** Chimney Fan is designed for prolonged use. The fan should be inspected at least once a year when the chimney is inspected. Fuel residues and other deposits should be removed from the fan blades and the bottom of the motor housing.

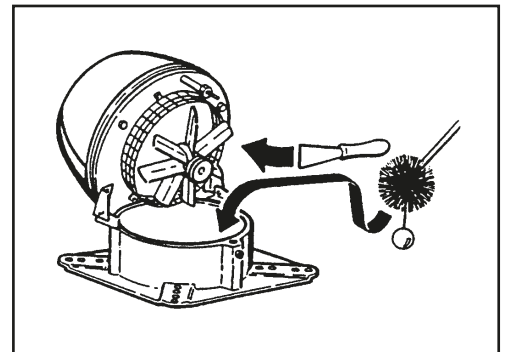
The top of the fan is hinged and can be opened in order to ease the cleaning.

The run capacitor is considered a wear part and will need to be replaced depending on usage.



WARNING

Do not open the motor housing unless power to the chimney fan has been disconnected.



Observation	Problem	Solution
There is no power going to the fan	• The circuit breaker may be off • Fan speed control is off • Bad electrical connections	• Check the circuit breaker • Turn fan speed control on • Check and correct problem
There is power to the fan but it is not operating	• Bad electrical connections • The fan speed control's low voltage setting is too low • The fan speed control is bad	• Check and correct problems with connections. Pay special attention to the wiring in the junction box • Increase the setting with the plastic screw on the fan speed control's front plate • Replace the fan speed control
There is power to the fan but it hums and does not turn	• The motor run capacitor may be bad. • Creosote may stick	• Check capacitor and replace if necessary • Clean fan
The fan seems to work fine, but there is not enough draft	• The fan may be undersized • Obstruction in the flue	• Replace with a larger fan • Clean the chimney
The fan vibrates	• The motor shaft may be bent • The hinges may be bent	• Replace motor • Straighten out hinges
There is airflow noise from the draft hood	• The flue is undersized. • The fan is oversized and running too fast	• There is not much to do about it • Reduce the fan speed
Mechanical noise can be heard	• Foreign matter may be stuck • Motor bearings may be worn out	• Remove matters • Replace bearings

Burner:

Summit Linear Fireplaces burners carry a life time warranty against manufacture defects or breakage as long as the appliance is installed inside and by a professional installer. In the event a defect or breakage occurs a replacement will be available for pick up from the dealer at which the burner was originally purchased. This warranty is limited to original purchaser only. Indoor burners installed outside carry a (1) year warranty.

Electrical and Valves:

Summit Linear Fireplaces Logs valves, remotes, and receivers carry a (2) year warranty against breakage or defects from date of purchase, by original purchaser, and must be installed by a licensed professional installer. This warranty only covers use with Summit Linear Fireplaces Logs burners and logs. In the event a defect or breakage occurs a replacement will be available for pick up from the dealer at which the burner was originally purchased. Batteries are not covered under this warranty. ODS pilot assemblies carry a (1) year warranty.

Refractory Logs:

Summit Linear Fireplaces, logs carry a lifetime warranty against any manufacture defects or breakage as long as the products are installed INDOORS. Logs installed in an outdoor fireplace or outdoor firepits carry a (5) year warranty. This warranty does not cover color fading due to use. In the event defect or breakage occurs, a replacement will be available to pick up from the dealer at which the log set was originally purchased or shipped directly to the customer if ordered online. This warranty does not cover breakage caused by excessive handling once installed and fired and does not cover improper installation. This warranty is limited to original purchaser only.

SCAN QR CODE FOR WARRANTY FORM



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