



Lumis 16 Lumis 22

Owner's Manual

Model Number: **16INC & 22INC**

This product is proudly manufactured in North America by **SUPREME FIREPLACES INC.**

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IMPORTANT: Keep the owner's manual for future use.

For the most up-to-date manual, please refer to the official Supreme Fireplaces Inc website

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1 SAFETY

SUPREME FIREPLACES INC. congratulates you on purchasing a LUMIS wood burning fireplace insert. This insert complies with the ULC S628 and UL 1482 standards. In addition, this wood insert is certified to comply with Phase II particulate emission standards from the US Environmental Protection Agency.

SAFETY NOTICE: Carefully read this manual before installation and operation of this insert. If not properly installed, a house fire may result. To reduce the risk of a fire, follow the installation instructions. Failure to follow instructions presented in this manual can lead to property damage, bodily injury or even death. Alterations or modifications made on the unit or the installation is strictly forbidden as it may predispose the user to hazardous risks. Contact your local building or fire officials for restrictions and installation inspection requirements in your area and the need to obtain a permit.

WARNING: This unit is hot during operation; keep children, pets, flammable liquids, or combustible materials at a safe distance. Ensure that all clearances to combustible materials are respected. Contact with the unit during operation may cause severe harm. Install a safety screen to keep children and pets away. This unit is NOT certified to be installed in a factory-built fireplace.

CAUTION:

- Do not connect this unit to a chimney flue serving another appliance.
- Do not connect to any air distribution duct or system.
- Never use chemicals to ignite the fire.
- Never burn waste or flammable fluids (such as gasoline, naphtha, or engine oil).
- Only burn dry natural cordwood.
- Never leave the unit unattended with the door open or unlatched.
- Only refuel this unit when the wood is reduced to embers.
- Always keep the door closed during operation.
- Do not operate this unit with a fireplace grate.
- Do not install an unvented gas log set into the firebox.
- Do not install this unit in a mobile home.
- Do not clean or service the unit while it is hot.
- Allow proper air flow by keeping the louvers/openings clear of any obtrusions.

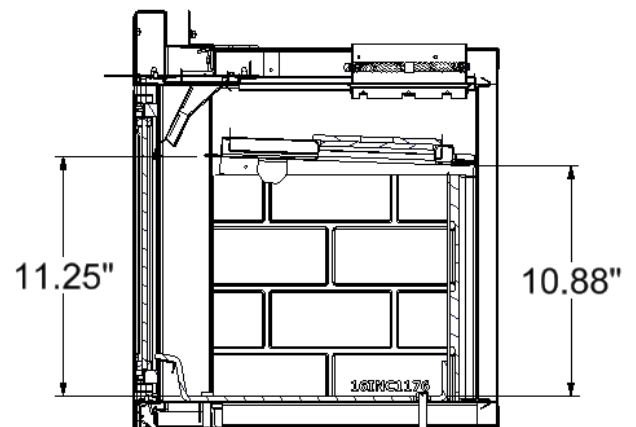
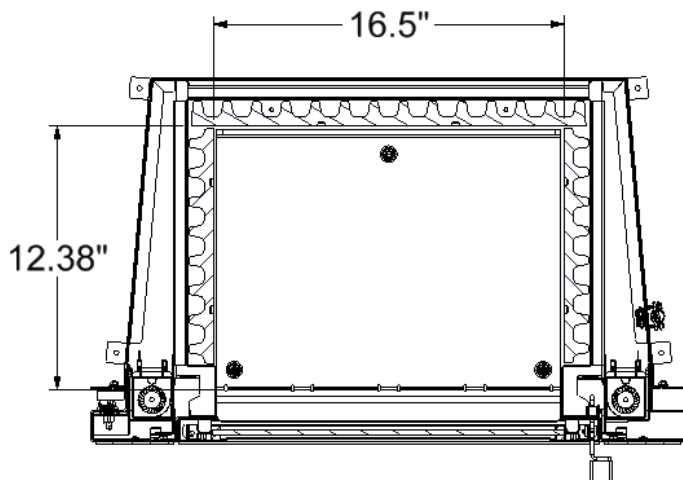
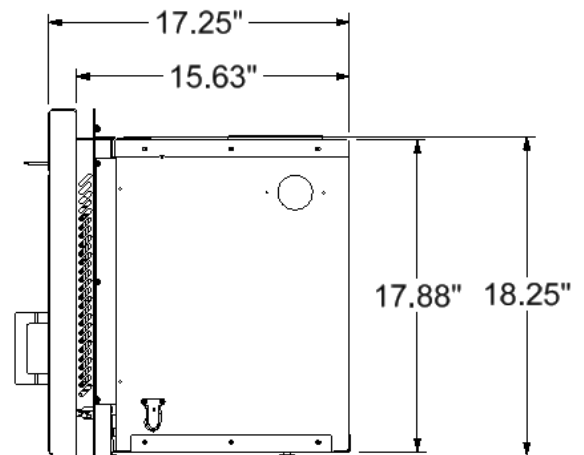
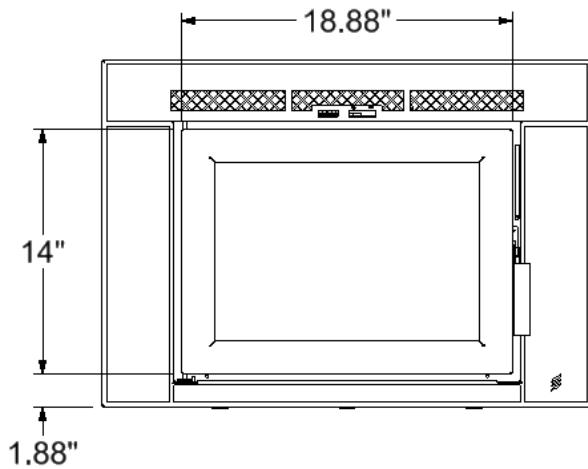
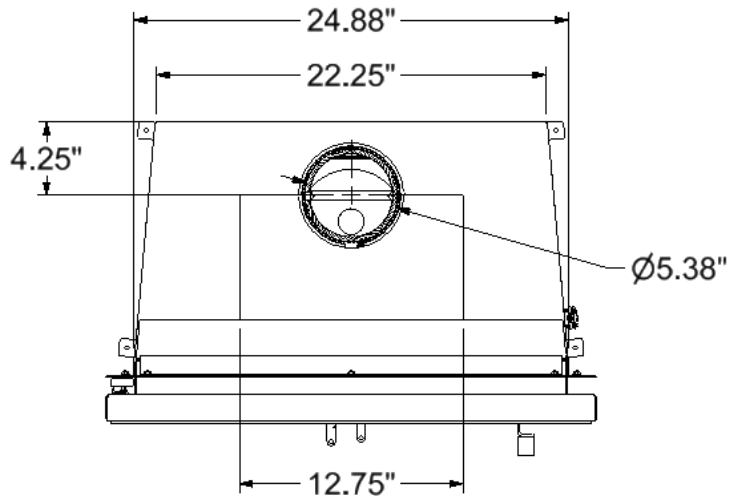
Note: Failure to respect the above cautions may cause damages to the unit, damages to personal property, bodily harm and will void the warranty. "This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual."



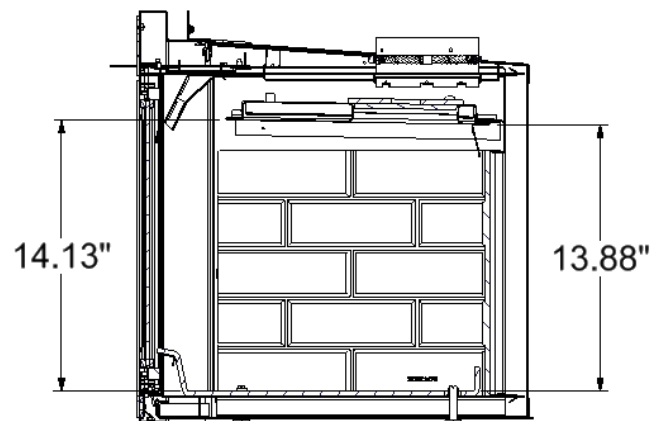
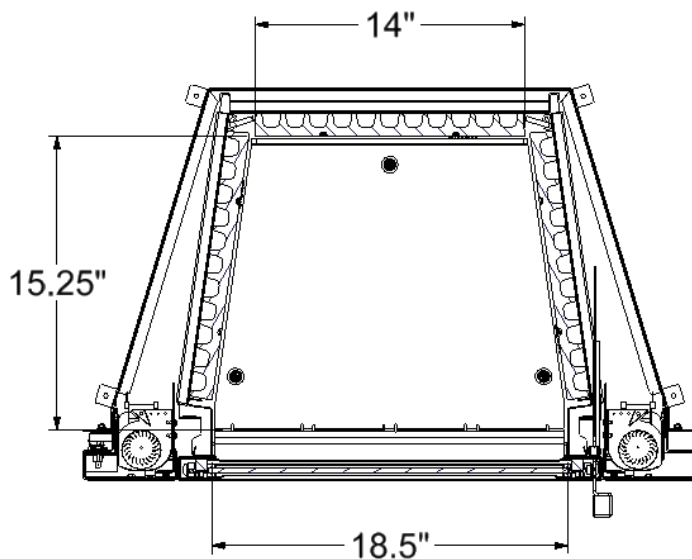
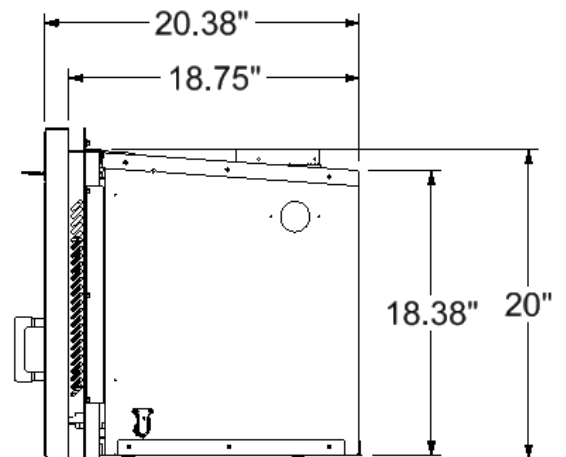
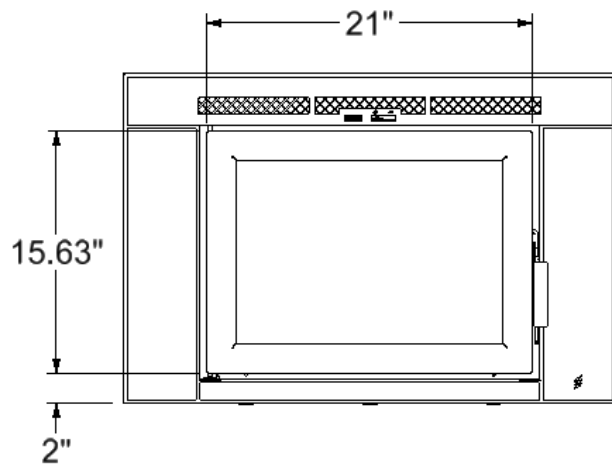
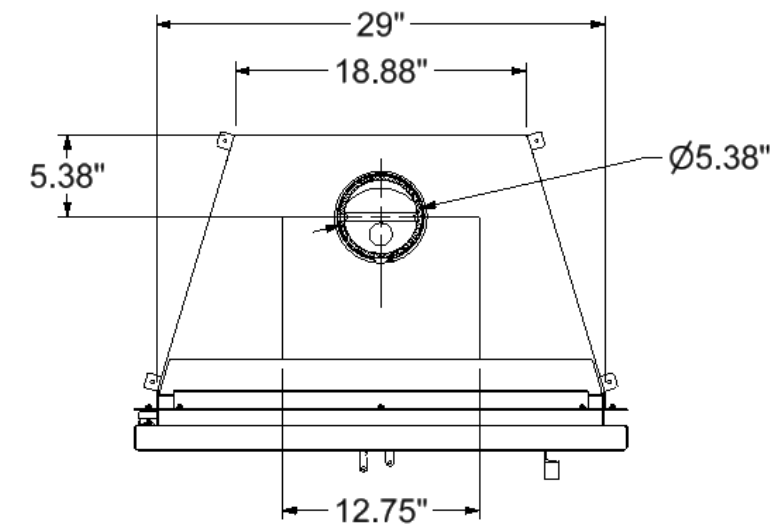
This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov/

2 COMPONENTS

2.1 LUMIS 16 – Overall Dimensions



2.2 LUMIS 22 – Overall Dimensions



2.3 Specifications

Model:	LUMIS 16	LUMIS 22
Appliance Type:	Adjustable Burn Rate Wood Heater – Non-Catalytic	Adjustable Burn Rate Wood Heater – Non-Catalytic
Fuel Type:	Dry Cordwood	Dry Cordwood
Maximum Log Length:	16 in (40.6 cm)	18 in (45.7 cm)
Burn Time¹:	3 to 6 hrs	6 to 8 hrs
Firebox Volume:	1.40 ft ³ (0.040 m ³) ²	2.20 ft ³ (0.062 m ³) ³
Heating Area:	Up to 750 ft ² (70 m ²)	Up to 1,500 ft ² (139 m ²)
Average Particulate Emissions Rate⁴:	1.0 gr/hr	1.3 gr/hr
Average CO Emissions Rate⁵:	1.5 gr/min	2.2 gr/min
EPA Protocol:	Method 28R	Method 28R
Efficiency:	HHV ⁶ : 66% LHV ⁷ :	HHV: 67% LHV:
Heat Output:	9,436 to 27,042 BTU/hr (2,765 to 7,925 W)	10,076 to 19,559 BTU/hr (2,953 to 5,732 W)
Optimum Efficiency:	75%	75%
Optimum Heat Output:	60,000 BTU (17.6 kWh)	75,000 BTU (22.0 kWh)
Efficiency Protocol:	CSA B415.1-10	CSA B415.1-10

WARRANTY REGISTRATION

Please register your SUPREME product online at <http://www.supremem.com/registration.php> to ensure full warranty coverage. Proof of purchase is required for all warranty claims.

¹ Depending on combustion air control setting (see Section 4.3 for further details).

² Usable volume according to ASTM E2780-10 standards calculated at 1.26 ft³ - figure used in EPA Method 28R testing.

³ Usable volume according to ASTM E2780-10 standards calculated at 1.91 ft³ - figure used in EPA Method 28R testing.

⁴ Officially tested and certified by an independent laboratory.

⁵ Low/medium burn rate settings produce a lower emission rate.

⁶ Higher Heating Value.

⁷ Lower Heating Value.

2.4 Combustion Air Control

The Combustion Air Control is a patented mechanism (Patent No: US 7,325,541 B2) that regulates the air flow into the firebox based on the temperature of the unit. It is located on the top of the firebox, at the front center of the unit. The combustion air control of the LUMIS has two components: the Activator and the Burn Rate Selector. The left combustion control lever is the Activator. When starting a fire or adding a new load of wood, the Activator must be pushed in to allow a primary source of air to enter the firebox. The Activator will retract automatically with heat. The right combustion control lever is the Burn Rate Selector. The Burn Rate Selector can slide sideways to achieve different burn rates. When the Burn Rate Selector is positioned to the left, a maximum burn rate is achieved and when it is positioned to the right, a minimum burn rate is set.

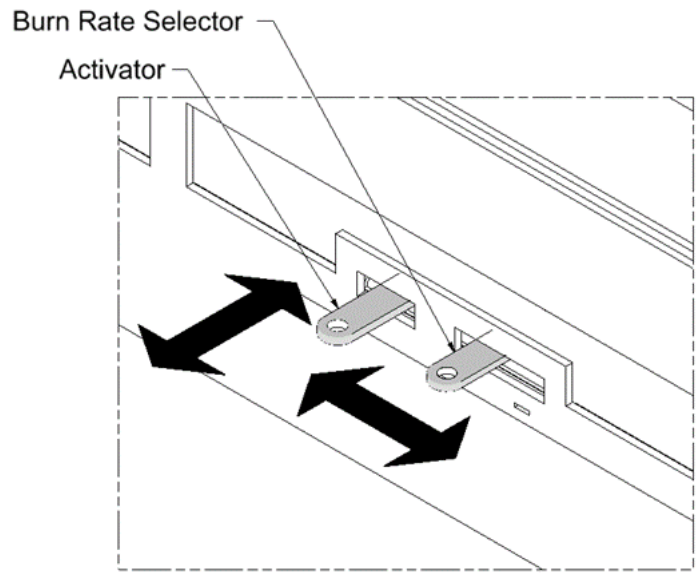


Figure 2-1: Primary Air Control

WARNING: Never manipulate the Combustion Air Control with bare hands as it gets hot when the LUMIS is in operation. Use the Cold Hand Key to adjust the Combustion Air Control.

2.5 Baffle Secondary Burn Technology

The baffle system of the LUMIS insert is located within the upper portion of the firebox and is fastened by 6 bolts (3/8 Hex). SUPREME baffle systems are constructed out of a specific grade of stainless steel capable of withstanding high-temperature conditions. The secondary combustion air is drawn into the baffle system, pre-heated, and distributed below the lower plate, allowing for a cluster of small flames flowing downwards. This effect is more visible in the minimum burn rates. For optimal performance, it is recommended to clean any creosote build-up on the lower plate of the baffle system.

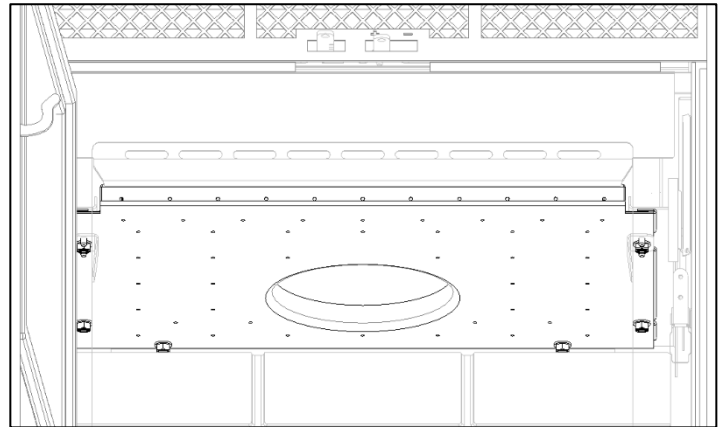


Figure 2-2: Baffle Secondary Burn Technology

2.6 Cold Hand Key

The Cold Hand Key is an accessory that comes standard with the LUMIS insert. The Cold Hand Key is a tool used to manipulate the Combustion Air Control Levers when it is hot.

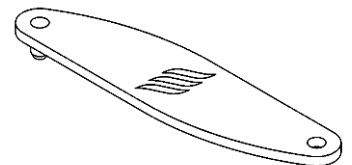


Figure 2-3: Cold Hand Key

2.7 Chimney Sweeping Cap

The chimney sweeping cap found at the baffle of the LUMIS allows easy access for chimney sweeping without having to remove any components of the firebox.

WARNING: The chimney sweeping cap must always block access to the chimney during combustion. A chimney sweeping cap that is not blocking the baffle hole during combustion is a safety hazard, will overheat the fireplace and void the warranty.

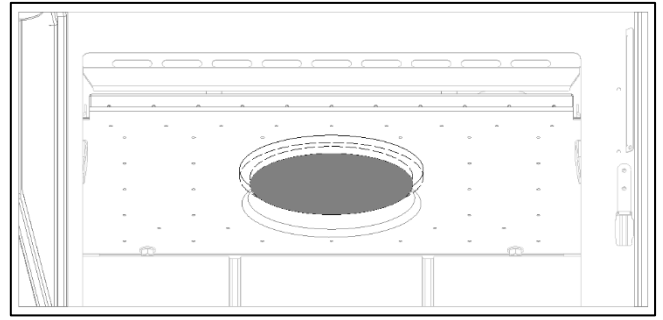


Figure 2-4: Chimney Sweeping Cap

2.8 Door

The LUMIS wood burning insert comes with a Pyroceramic glass panel door. Pyroceramic is the highest grade available for fireplaces and stoves and can withstand temperatures up to 704°C / 1300°F. To remove the door, open the door, lift it and pull it towards the bottom until the rod exits from the hinge holes.

NOTE: The door of the LUMIS must remain closed at all times during operation.

2.9 Blowers

The LUMIS wood burning fireplace insert is equipped with two AC centrifugal compact fans on either side of the surround (**LUMIS 16 blowers electrical rating: 120V, 60Hz, and 0.23A / LUMIS 22 blowers electrical rating: 115V, 60Hz, and 0.86A**).

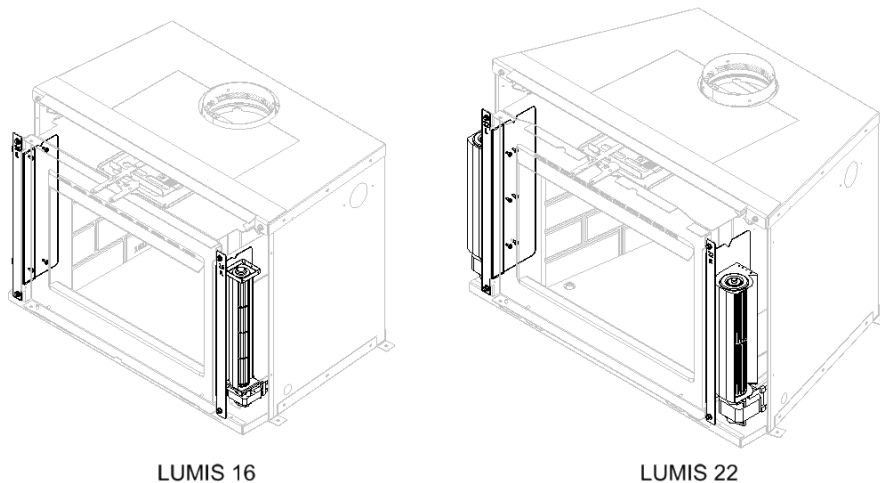


Figure 2-5: LUMIS Blower Locations

WARNING: Make certain that the fireplace is not in operation and the blowers are unplugged before accessing the electrical wiring.

CAUTION: Only a blower provided by SUPREME FIREPLACES INC. can be installed into the fireplace. Substituting the blower kit may result in overheating, will void the warranty and can be hazardous.

Plug the power cord into an 115V **grounded** outlet for protection against a power surge. The blowers will turn on and turn off automatically during the operation of the unit. As the temperature of the fireplace insert increases and the heat activated sensor reaches 35°C / 95°F, the fans will turn on. Note that the average time it takes for the fans to activate is between 30 to 45 minutes after starting a fire. The fans will turn off once the fireplace has cooled down and the heat activated sensor reaches 85°F. Furthermore, the LUMIS insert is equipped with an on/off switch, which bypasses the heat sensor (when its not activated) and permits the user to run the fans at

any moment. The speed of the fans can be adjusted with the variable speed control installed on the side of the surround. It is safe to operate the LUMIS in the event of a power failure (fans not powered).

2.10 Optional Fresh Air Adaptor

The Optional Fresh Air Kit allows for exterior air (outdoors) to be drawn into the fireplace during operation of the unit. Note that a 4 inches duct is required for the installation (item ordered separately). Refer to Section 4.7 for installation instructions. Contact your local building official regarding mandatory fresh air kit installations within your area.

CAUTION: Only a fresh air kit provided by SUPREME FIREPLACES INC. can be installed onto the fireplace. Substituting the fresh air kit may result in overheating and will void the warranty.

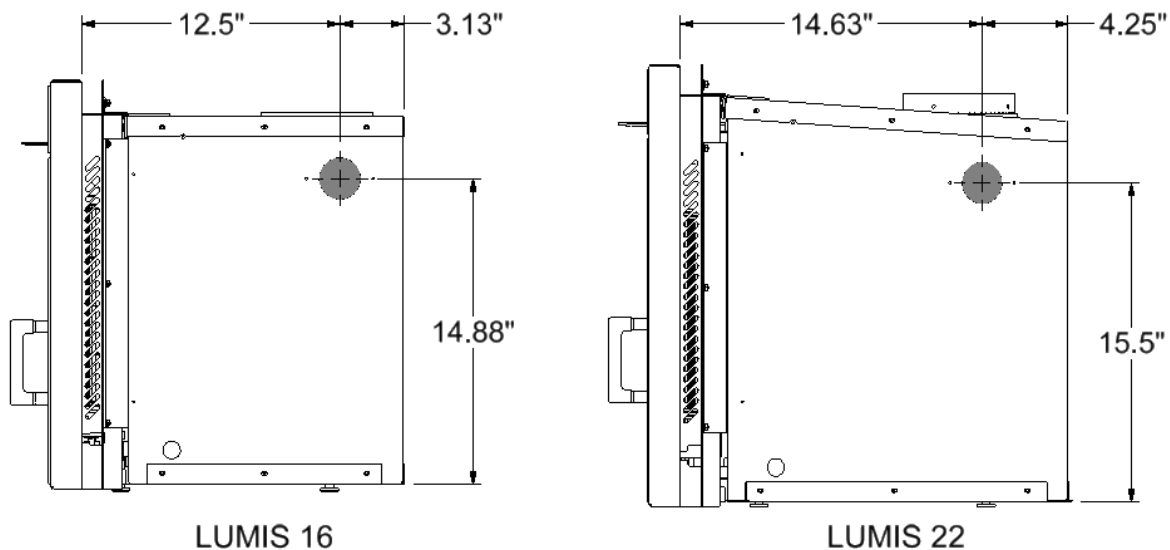


Figure 2-6: LUMIS 16 and LUMIS 22 Fresh Air Adapter Knockout Location

2.11 Cast Iron Interior

The LUMIS stainless steel firebox is lined with cast iron panels for an extra layer of durability and strength. Designed to provide long-lasting heat and thermal protection, these industry-first, decoratively stamped panels also provide the added benefit of the timeless beauty of cast iron. Forged in fire, tempered with time, the LUMIS insert offers a lifetime of warmth.

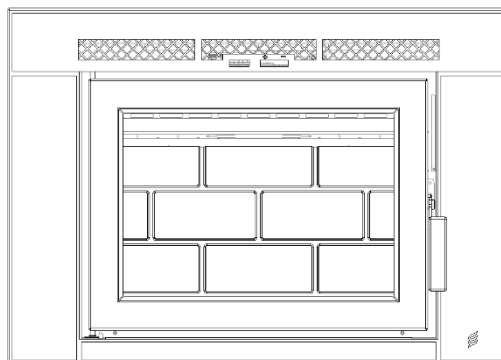


Figure 2-7: Cast Iron Interior

2.12 Surround

A surround comes standard with the LUMIS. Please refer to the Figure 2-8 and Figure 2-9 for dimensions.

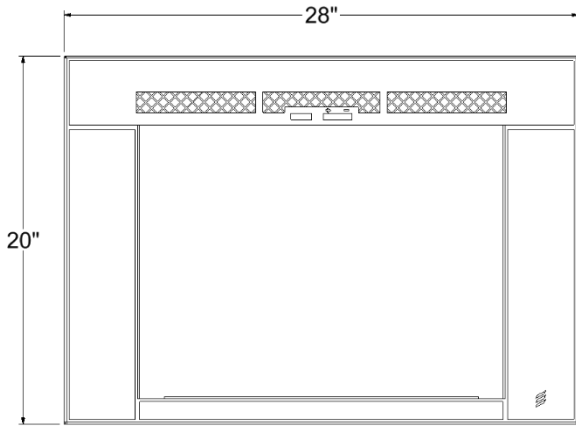


Figure 2-8: 16LMFA-01 - LUMIS 16 Surround

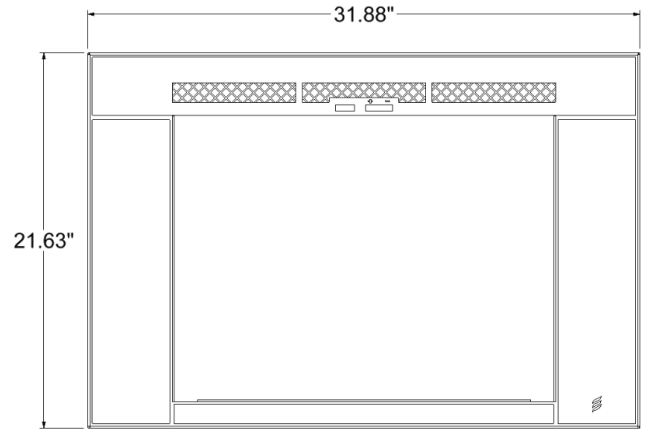


Figure 2-9: 22LMFA-01 - LUMIS 22 Surround

2.13 Backplate

A 16 gauge backplate comes standard with the LUMIS surrounds, allowing to cover a minimal opening between the existing masonry fireplace and the LUMIS surround. The standard backplate size corresponds to the surround sizes shown in Section 2.12. An optional 12 gauge thick backplate is offered to cover larger openings. It is permitted to cut the backplate for installation or aesthetic purposes. Please refer to the Figure 2-10 and Figure 2-11 below to the backplate options of the LUMIS insert.

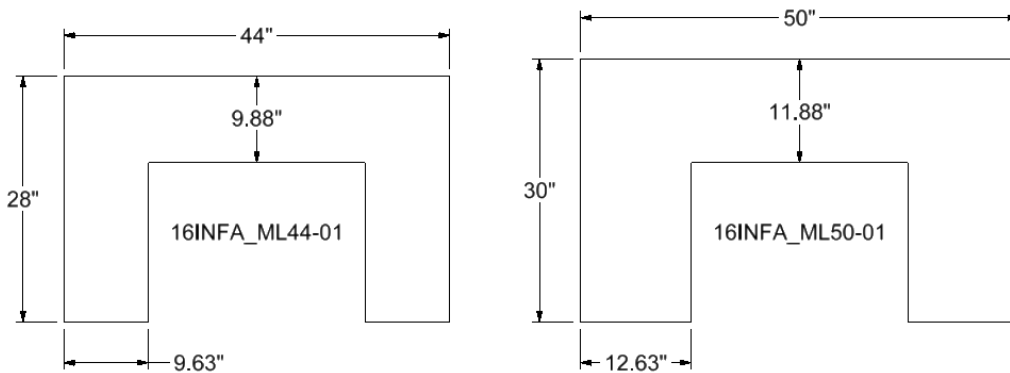


Figure 2-10: LUMIS 16 Backplates

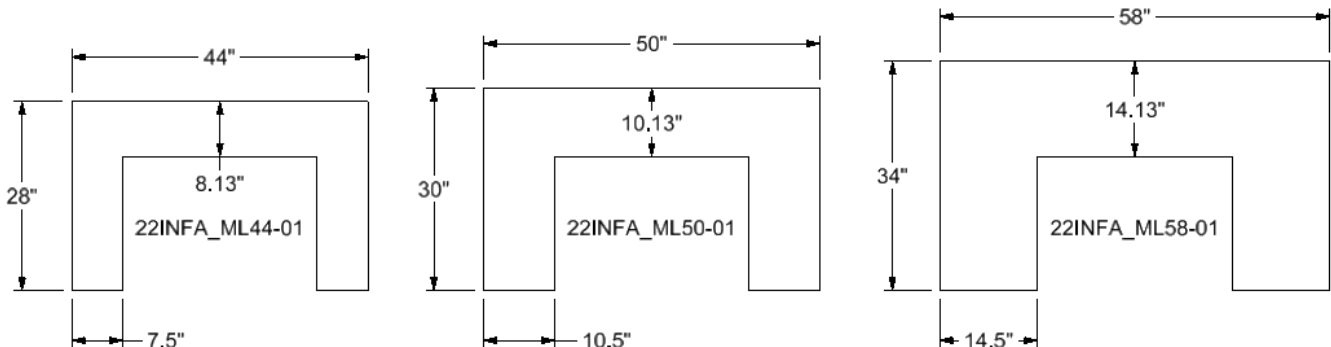


Figure 2-11: LUMIS 22 Backplates

2.14 Circulating Chamber

The circulating chamber is a standard component of the LUMIS insert. It is designed to prevent heat escaping to the existing chimney and allows for an optimal air flow and heat transfer. The removable top bracket can be taken off during installation to allow a better access to the liner adaptor. Note that the removable top bracket needs to be installed and fastened (2X #8-32 Serrated Flange Nut) before operating the LUMIS. See Figure 2-12.

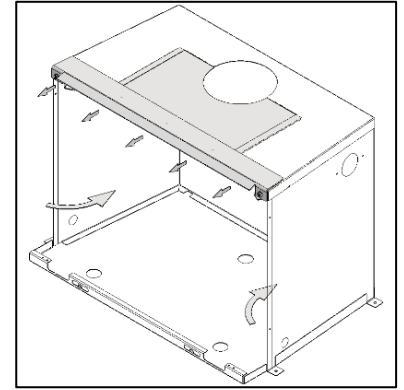


Figure 2-12: Circulating Chamber

2.15 Adjustable Legs

The LUMIS insert comes with three adjustable legs in the bottom of its firebox to allow adjustment of the height for leveling purposes. **CAUTION: It is mandatory to install ALL the adjustable legs. Operating the unit without the adjustable legs installed will result in overheating and void the warranty.**

2.16 Liner Adaptor

The Liner Adaptor is a component that comes with the LUMIS and is required to connect a 5" stainless steel liner to the unit. See Figure 2-13.

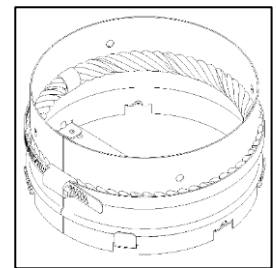


Figure 2-13: 5" Liner Adaptor

2.17 Metal Tag

The Metal Tag specifies that alterations have been made to the masonry fireplace to accommodate the LUMIS insert. The metal sheet having the Metal Tag is to be installed with two screws at the hearth of the masonry fireplace. Note that the Metal Tag must be installed with the writing face upwards so that it is visible if the insert fireplace is removed.

The Metal Tag reads as follows:

This fireplace has been altered to accommodate a fireplace insert and should be inspected by a qualified person prior to re-use as a conventional fireplace.

Ce foyer a été modifié afin d'y insérer un foyer encastrable et doit être inspecté par une personne qualifiée avant sa réutilisation comme foyer conventionnel.

2.18 Serial Number

The certification label contains important information regarding the installation and operation of the LUMIS fireplace insert. In addition, the serial number of the unit is permanently embossed onto the top right corner of the label. The certification label is located to the right side of the door and is accessible by opening the door and pulling the plate.

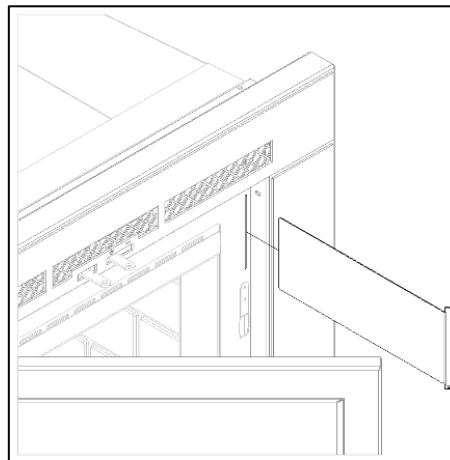


Figure 2-14: LUMIS 16 Serial Number Location

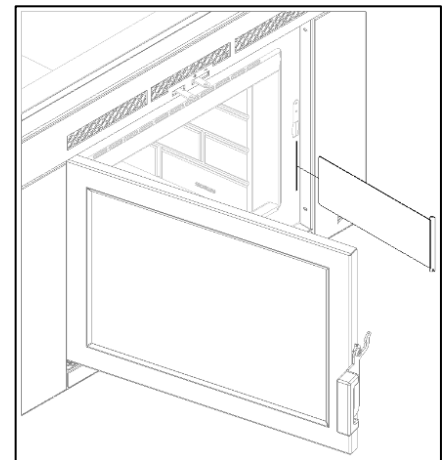


Figure 2-15: LUMIS 22 Serial Number Location

3 INSTALLATION INSTRUCTIONS

The masonry fireplace is to be constructed in accordance to N.F.P.A. 211 (Latest Edition), Standards of Chimney, Fireplaces, Vents and Solid-Fuel-Burning Appliances and Equipment. The LUMIS fireplace insert is intended only for masonry fireplaces installed with a continuous chimney liner of 5 inches diameter extending from the fireplace insert to the top of the chimney. This insert must be connected to a code-approved masonry chimney or listed factory-built fireplace chimney with a direct flue connector into the first chimney liner section. The chimney size should not be less than or more than three times greater than the cross-sectional area of the flue collar. The chimney liner must conform to the Class 3 requirements of CAN/ULC-S635, Standard for Lining Systems for Existing Masonry or Factory-Built Chimneys and Vents or CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys. Contact a local building inspector for information on additional requirements and/or codes in your area.

CAUTION: Read these instructions carefully before starting the installation. Failure to follow these instructions may result in property damage, bodily harm and even death. Modifications of the instructions presented in this section without written authorization from SUPREME FIREPLACES INC. will void the warranty.

Be sure that the fireplace and chimney are clean and in good condition. Seal all cracks using stove cement. Seal permanently any openings between the masonry of the fireplace and the facing masonry. Remove or keep permanently open the existing damper of the fireplace. If there is an accumulation of creosote in the chimney or flue, it must be thoroughly cleaned. When installing, operating and maintaining a solid fuel heater, respect basic standards for fire safety.

WARNING: Do not remove bricks or mortar from the masonry fireplace.

Refer to Table 3-1, Figure 3-1 and Figure 3-2 for minimum opening dimensions of the masonry fireplace.

NOTE: The non-combustible hearth must extend a minimum of 16" for USA (406 mm) and 18" (457 mm) for Canada from the door and 8" (203 mm) on each side of the masonry fireplace opening.

NOTE: It is strongly recommended to install a carbon monoxide (CO) and smoke detector near the location of the unit.

Table 3-1: Minimum Opening Dimensions

Model:	LUMIS 16	LUMIS 22
Width (Front) - WF	25.00" (635 mm)	29.00" (737 mm)
Width (Back) - WB	22.50" (572 mm)	19.00" (483 mm)
Height (Front) - HF	18.50" (470 mm)	20.00" (508 mm)
Height (Back) - HB	18.50" (470 mm)	18.50" (470 mm)
Min. Depth - D	13.75" (349 mm)	17.00" (432 mm)

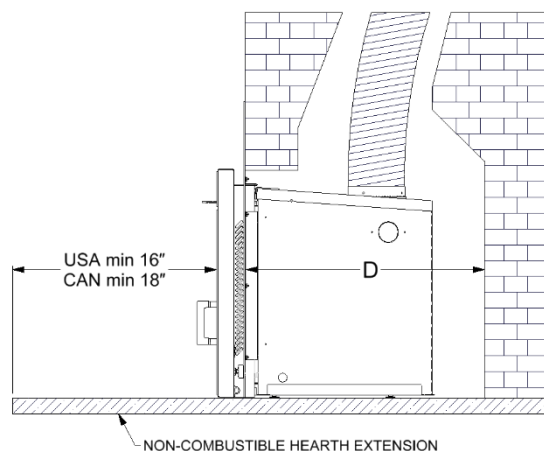


Figure 3-1: Minimum Opening Dimensions – Side View

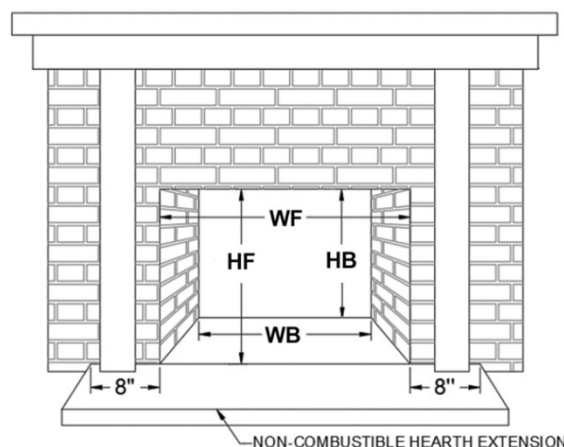


Figure 3-2: Minimum Opening Dimensions – Front View

3.1 Preparing the Firebox for Installation

- a) Unfasten and remove the front shipping cover of the unit (See Figure 3-3).

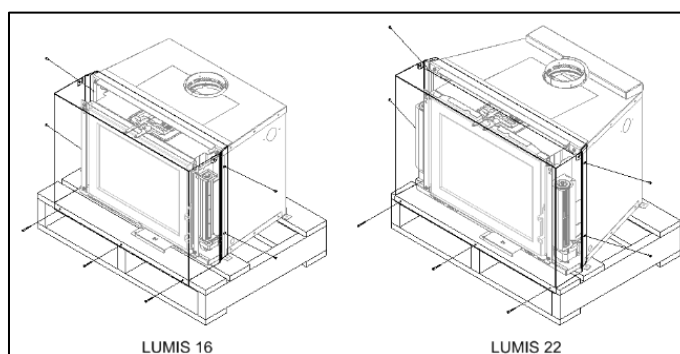


Figure 3-3: LUMIS Shipping Front Cover Removal

- b) Unfasten the wiring cover and the sides of the unit from the pallet (See Figure 3-4).

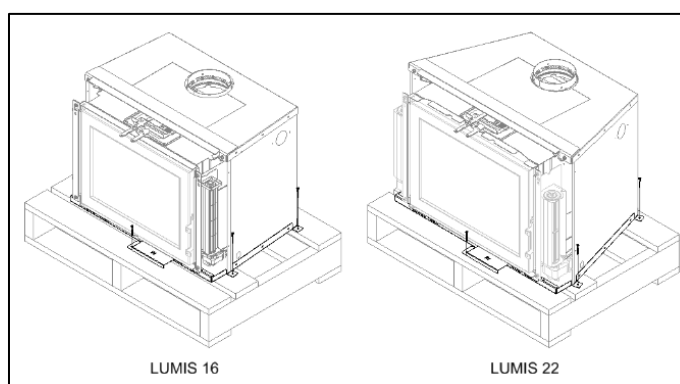


Figure 3-4: LUMIS Removal from Pallet

- c) Remove the door as shown in Figure 3-5. Place the door face down on a soft surface aside and leave it there until the installation is finished.

NOTE: Rotate the handle to permit a proper placing.

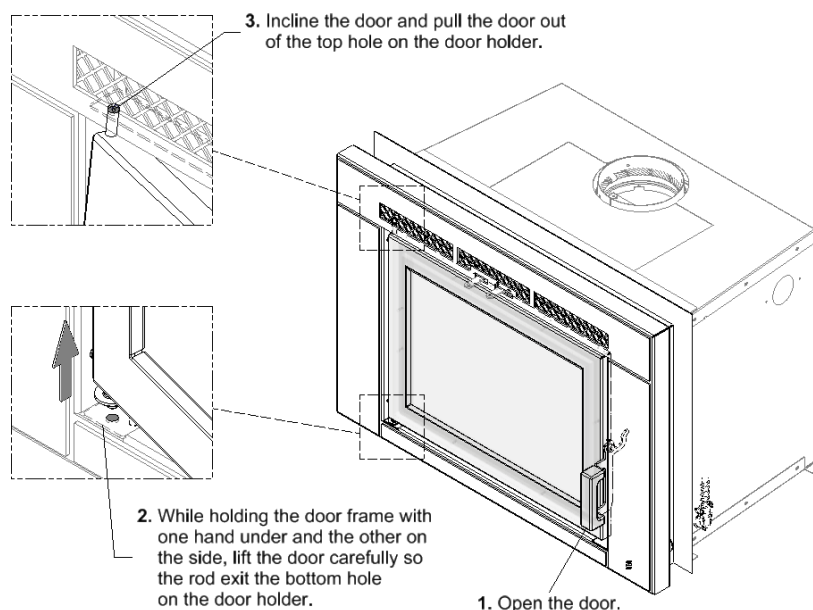


Figure 3-5: LUMIS Door Removal

- d) From within the firebox, push the chimney sweeping cap upwards and place it to the side.

- e) The LUMIS 22 is equipped with a Shipping Bracket on the back. Remove it (recycle) and screw the top of the unit using the same screws as shown in Figure 3-6.

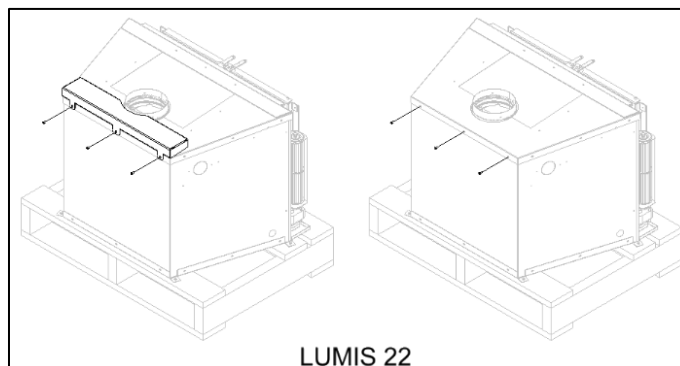


Figure 3-6: LUMIS 22 Back Shipping Bracket Removal

3.2 Liner Installation

- Determine the required length of liner by measuring the bottom of the hearth to the top of the existing chimney. **NOTE:** Additional length of the liner is needed for proper installation of the flashing and chimney cap. **WARNING: The minimum and maximum height of the liner are 15' and 35' respectively.**
- Slide the stainless steel liner down the existing chimney.
- Lower the liner 24 inches from the hearth.

CAUTION: Do NOT install any insulation in the space between the fireplace insert and existing masonry fireplace. Operating the unit with insulation around the insert fireplace can result in overheating and damage the unit.

3.3 Liner Adaptor Installation

Insert the 5" diameter liner adaptor at the end of the liner. The liner must be flush with the inferior rim of the adaptor.

- Tighten the clamp to secure the liner with the liner adaptor.
- Secure the liner adaptor in place with stainless steel self-piercing sheet metal screw.

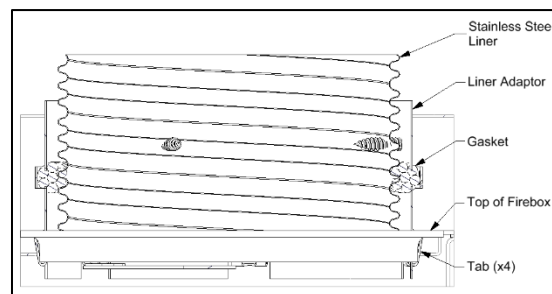


Figure 3-7: Stainless Steel Liner Connection

3.4 Firebox Installation

- Slide the LUMIS fireplace insert into the masonry fireplace.
- Align the liner adaptor with the top opening of the circulating chamber. Note that the top/front portion of the circulating chamber can slide off to allow for better access to the liner adaptor – unfasten the #8-32 serrated flange nuts (2X) on the front bracket (Figure 3-8).
- Insert your hand in the chimney sweeping cap opening and pull the liner down by the handle of the adaptor.
- Use your thumb to bend the 4 tabs of the liner adaptor outward to secure the liner in place.
- Reposition the chimney sweeping cap back in the chimney sweeping cap hole of the baffle.

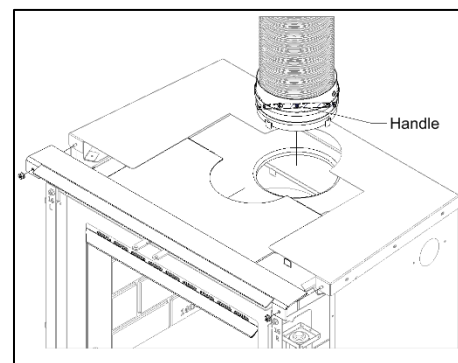


Figure 3-8: Circulating Chamber Top Removable Bracket

WARNING: The chimney sweeping cap must always block access to the chimney during combustion. A chimney sweeping cap that is not blocking the baffle hole during combustion is a safety hazard, will overheat the fireplace and void the warranty.

3.5 Backplate Installation

The LUMIS surround is designed with return bends that meet the minimum opening requirements of the existing masonry fireplace, permitting an increased flexibility with the installation. The backplate is required to finalize the installation. The following instructions and the illustrations of Table 3-3 explain the installation process of the backplate on a LUMIS surround:

- a) Before installation the backplate, ensure:
 - i. that the insert fireplace is properly installed with the liner
 - ii. the firebox is properly leveled,
 - iii. that the unit is settled at its final position
 - iv. the blower kit installation is completed (refer to Section 4.6)

Note: Make sure the positioning of the unit doesn't exceed the range illustrated in Figures 3-11 to Figure 3-14.
- b) With a measuring tape, determine the distance between the LUMIS surround and the masonry fireplace. **Refer to the Table 3-2 to take the measurements. The measurements cannot be lower than the minimum of 1 1/8" (28.58 mm) and cannot be higher than the maximum of 2" (63.50 mm). Correct the position of the insert fireplace if necessary.**
- c) Make sure to note the distances G1 and G2 needed for the installation of the backplate.
- d) Proceed to install the backplate by following the instructions in Table 3-3.
- e) Finish the installation and test the blower kit as detailed by the end of Table 4-1.
- f) Adjust the backplate if necessary.

Table 3-2: Backplate Positioning

Backplate Position – Measurements

The backplate can be adjusted by up to 7/8 inches on the LUMIS surround. Before continuing with the installation, it is necessary to measure the gaps (distances G1 and G2 might be slightly different) between the masonry and the LUMIS surround. Install the LUMIS surround temporarily and refer to the Figures 3-8 and Figure 3-9 to take the measurements. Make sure to note them for future use.

NOTE: In some installations the masonry might be slightly inclined, it is possible to adjust the backplate to correct small angle imperfections by offsetting the top and side brackets.

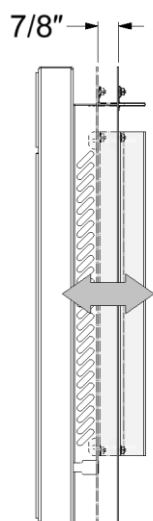


Figure 3-9: Adjustable Backplate

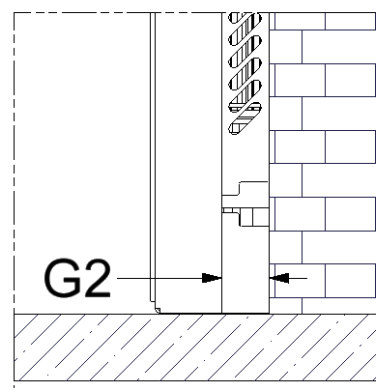
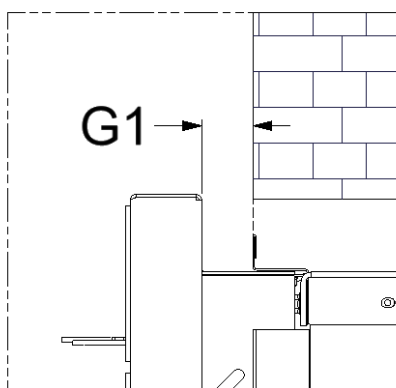


Figure 3-10: Gap Measurements between the Masonry and the LUMIS Surround

Backplate Position – Minimum and Maximum

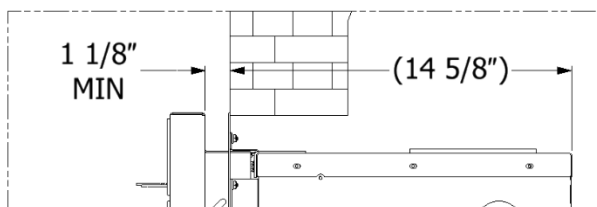


Figure 3-11: LUMIS 16 Minimum Backplate Position

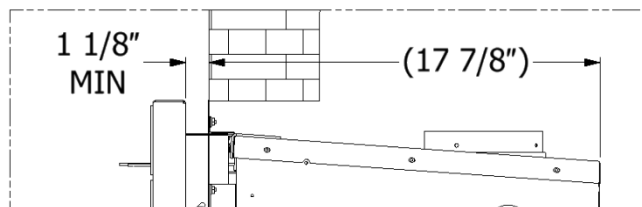


Figure 3-12: LUMIS 22 Minimum Backplate Position

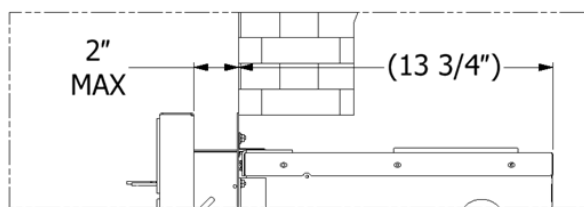


Figure 3-13: LUMIS 16 Maximum Backplate Position

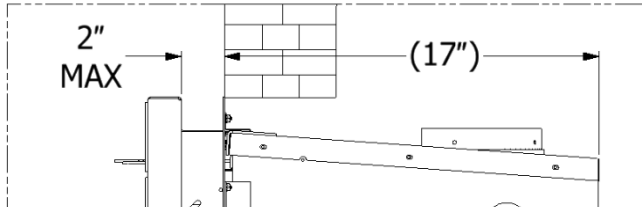
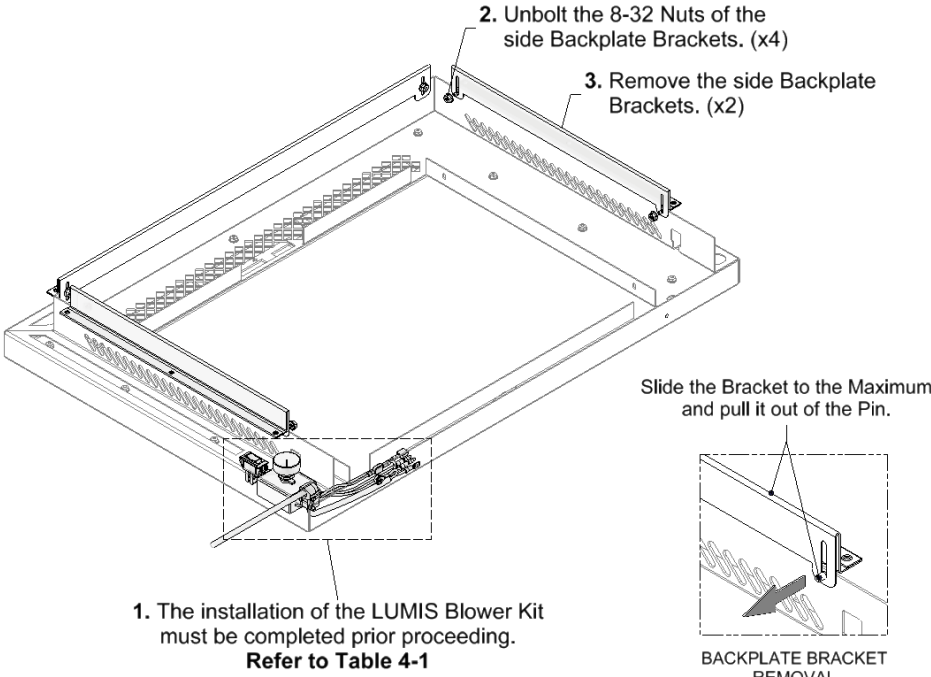
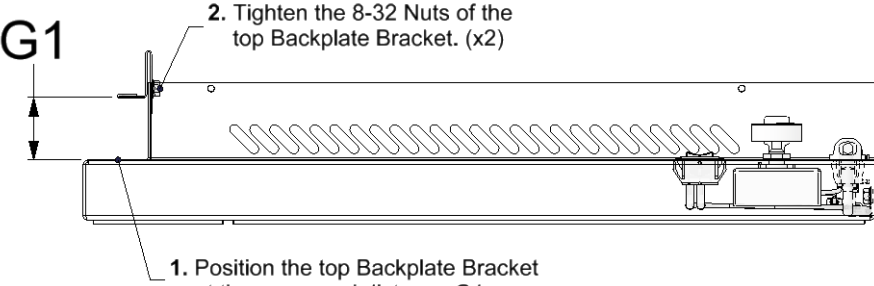
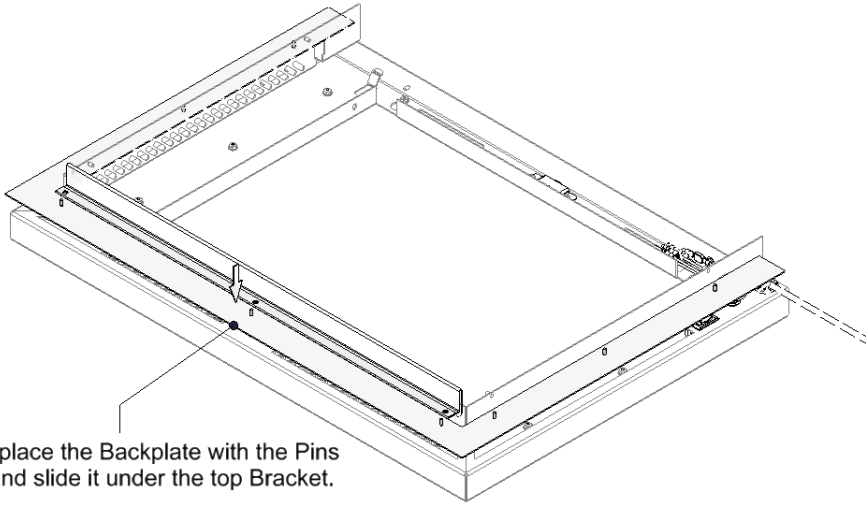
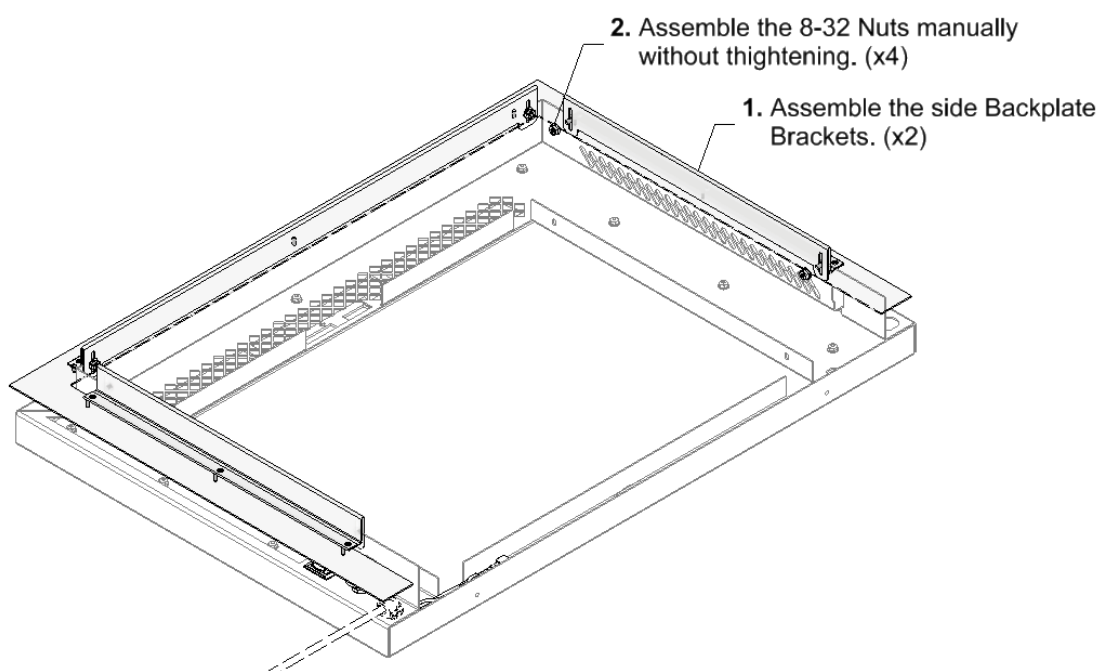
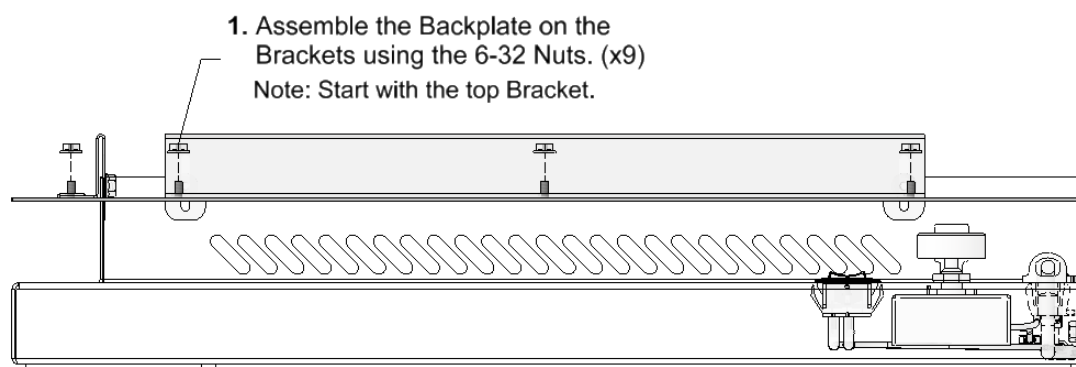
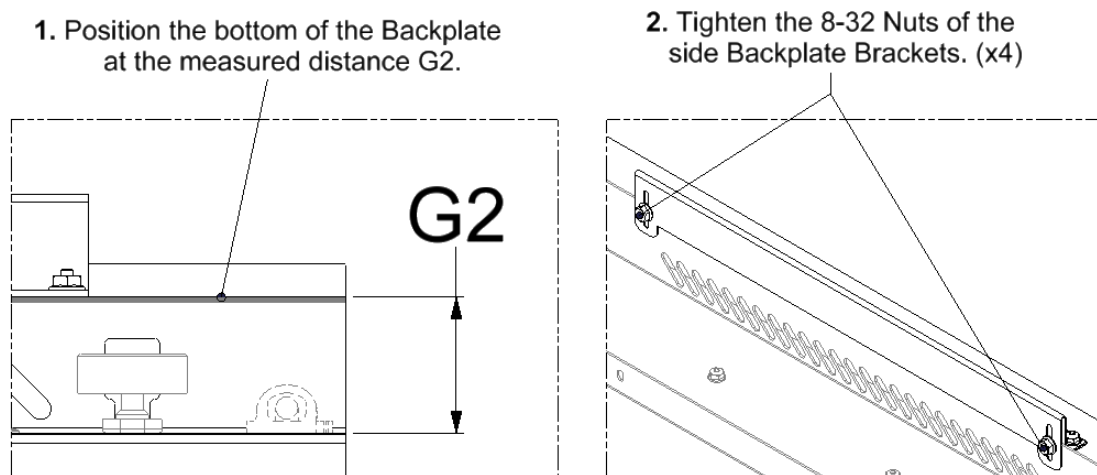


Figure 3-14: LUMIS 22 Maximum Backplate Position

Table 3-3: Backplate Installation Instructions

STEP 1	2. Unbolt the 8-32 Nuts of the side Backplate Brackets. (x4) 3. Remove the side Backplate Brackets. (x2) 1. The installation of the LUMIS Blower Kit must be completed prior proceeding. Refer to Table 4-1 Slide the Bracket to the Maximum and pull it out of the Pin. BACKPLATE BRACKET REMOVAL 
STEP 2	2. Tighten the 8-32 Nuts of the top Backplate Bracket. (x2) 1. Position the top Backplate Bracket at the measured distance G1. G1 
STEP 3	Carefully place the Backplate with the Pins upward and slide it under the top Bracket. 

STEP 4**STEP 5****STEP 6**

3.6 Clearances to Combustibles

The clearances below must be respected to ensure safe operation of the unit under normal and extreme conditions. Failure to follow the information below is a safety hazard and may result in property damage. Refer to Figure 3-15, Figure 3-16, Table 3-3 and Table 3-4 for clearances to combustibles of the LUMIS insert.

Note that the non-combustible hearth must extend a minimum of 16" for USA (406 mm) and 18" (457 mm) for Canada from the front of the door and 8" (203 mm) on each side of the masonry fireplace opening and comply with the UL 1618 standards.

WARNING: Keep a minimum distance of 5' (152 cm) from the unit to any combustible material (such as firewood, furniture, and drapes) as a fire hazard precaution.

The depth of the mantle is measured from the face of the fireplace door. When the non-combustible wall is recessed, the depth of the mantle can be increased by the amount of the recess. **Note that a mantle cannot be installed below the minimum clearance of 13" from the bottom of the mantle to the top edge of the door.**

Table 3-4: Clearances to Combustibles

Sidewall from outer edge of fuel door	15.5" (394 mm)
Side trim (max 4" depth) from outer edge of fuel door	7" (178 mm)
Protruding mantel (max 8" depth) from top edge of fuel door	13" (330 mm)
Height (H) from the base of the unit to the floor with a non-compliant N.F.P.A. 211 hearth extension having a negligible R-value	13" (330 mm)
Height (H) from the base of the unit to the floor with a non-compliant N.F.P.A. 211 hearth extension having an R-value of 2.957	USA: 3.5" (89 mm) CAN: 1.25" (32 mm)

Table 3-5: Examples of Depth of Mantle with Respect to Distance from Top Edge of Door¹

Maximum mantle depth	Distance from the top edge of the door of the LUMIS to the bottom of the mantle
8" (203 mm)	13" (330 mm)
10" (254 mm)	15" (381 mm)
12" (305 mm)	17" (432 mm)

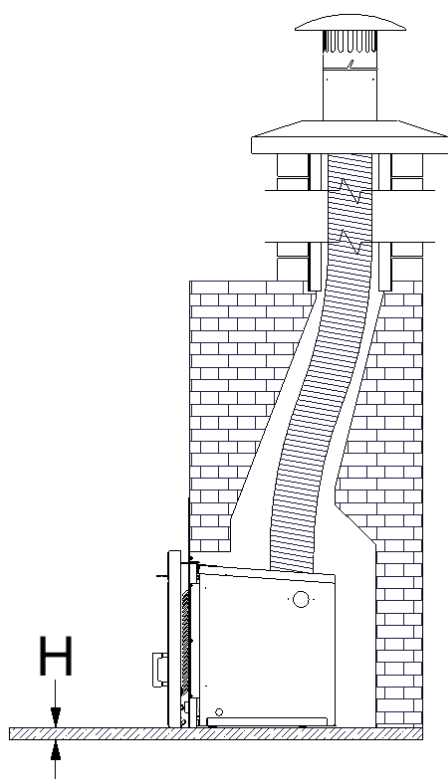


Figure 3-15: LUMIS Insert Installation

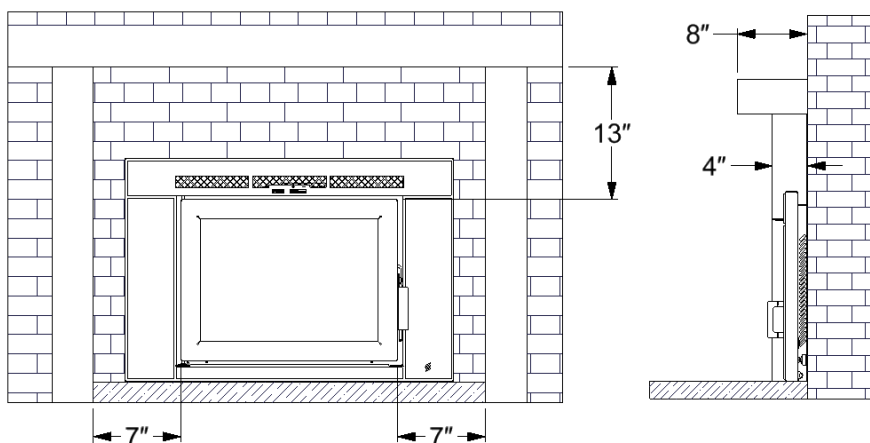


Figure 3-16: Clearances to Combustibles (a) Front View (b) Side View

3.6.1 Calculating R-Value

The below information demonstrates how to calculate the R-Value for a non-compliant N.F.P.A. 211 hearth extension.

The R-Value is a measurement of a material's insulating properties with respect to a referenced thickness (see Table 3-5). The total R-Value of the hearth extension constructed out of different materials can be calculated by summing the R-Value of each material with respect to the thickness (see equation below).

Table 3-6: Thermal Properties of Materials⁸

Material	Thermal Resistance [R-Value] per Inch	Thermal Conductivity [k-Value] per Inch
Cement Board (Durock Next Gen)	0.780	1.282
Brick	0.200	5.000
Limestone	0.153	6.536
Slate	0.100	10.000
Concrete	0.095	10.526
Marble	0.090	11.111
Granite	0.083	12.048
Ceramic Tile	0.080	12.500

$$R_{\text{Total}} = (R_1 \times T_1) + (R_2 \times T_2) + (R_3 \times T_3) + \dots$$

Note the k-Value per inch can be converted to an R-Value per inch using the following formula:

$$R = \frac{1}{k}$$

Example:

A hearth extension is constructed out of 4" of concrete with 14.5" brick. The total R-Value is:

$$R_{\text{Total}} = (R_{\text{con}} \times T_{\text{con}}) + (R_{\text{brick}} \times T_{\text{brick}}) = (0.095 \times 4") + (0.200 \times 14.5") = 3.280$$

⁸ Values based on manufacturers technical specifications

4 OPERATION INSTRUCTIONS

WARNING: READ THE OWNER'S MANUAL CAREFULLY BEFORE USING YOUR FIREPLACE INSERT.

The LUMIS is not intended to serve as a primary source of heat; the home where the LUMIS fireplace insert will be installed must have a primary source of heat. SUPREME is not responsible for heating costs related to other sources of heat.

4.1 Fuel

The LUMIS is designed to burn natural wood only. Higher efficiencies and lower emissions generally result when burning air dried seasoned hardwoods (moisture content below 20%), as compared to softwoods or to green or freshly cut hardwoods. The following are a few signs indicating that firewood is sufficiently dry for use: (a) cracks on the ends and surface of the logs, (b) lighter in weight, and (c) color (yellow/grey). It is recommended to use a moisture meter with pin sensors for determining accurately the moisture content of firewood (read manufacturer's instruction manual before operating). The optimum log length is between 14" to 16" for the LUMIS 16 and LUMIS 22, preferably split in halves or quarters and left to dry under a cover or away from external elements for a minimum of one year prior to use. Use good quality dry cordwood only. DO NOT burn garbage, lawn clipping, yard waste, materials containing rubber (including tires), materials containing plastic, waste petroleum products, paints, paint thinners, asphalt products, materials containing asbestos, construction debris, demolition debris, railroad ties, pressure-treated wood, manure, animal remains, coal, salt water driftwood or other previously salt water saturated materials, unseasoned wood, paper products, cardboard, plywood, particle boards, or other foreign materials in this product. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, saw dust, wax and similar substances for the purpose of starting a fire in an affected wood heater. Burning these materials may result in release of toxic fumes or render the heater ineffective and cause smoke. Do not over fire the LUMIS fireplace insert. Over firing will damage the fireplace, is hazardous and will void the warranty. NOTE: Gas logs cannot be installed in the LUMIS fireplace insert.

WARNING: Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this unit. Keep all such liquids well away from the fireplace insert while it is in use.

Ecological or compressed logs containing chemical additives are not tested and approved to be used with the LUMIS. Using them will overheat and damage the fireplace and void the warranty. Ecological or compressed logs that are 100% wood and contain no other additives can be safely used in the LUMIS. Never use more than three of these logs at a time. Using more is not only dangerous but will damage the fireplace and void the warranty. Follow the ecological log manufacturer's safety guidelines and recommendations and be sure that they are intended for use in fireplaces. Reload only once the previous load of wood has been consumed and only embers remain.

WARNING: Do not keep the door open while the fireplace is in operation.

4.2 First Fires

For the first 3 fires, burn a maximum of 3 logs at the medium to low burn rate (refer to Section 4.3) to allow for proper conditioning of the unit. Due to oil residues and the curing of the paint of the fireplace, it is normal to smell an odor for the first fires of the LUMIS. Open a window or a door near the fireplace insert to ventilate the house during the first fires. Oil residues may cause light smoking.

4.3 Operating the Combustion Air Control

The burn rate and the heat output are related to the amount of air entering into the firebox. The combustion air control of the LUMIS has two components: the Activator and the Burn Rate Selector. When starting the fire or when adding a new charge of wood, the fireplace needs additional air to establish a good fire. When the wood starts to burn properly, the amount of air can be reduced depending on the heating requirements.

The left combustion control lever is the Activator. When starting a fire or adding a new load of wood, the Activator must be pushed in to allow maximum air to enter the firebox. The right combustion control lever is the Burn Rate Selector. The Burn Rate Selector can slide sideways to achieve different burn rates. When the Burn Rate Selector is positioned to the left, a maximum burn rate is achieved and when it is positioned to the right, a minimum burn rate is set. Keeping the Burn Rate Selector to the right will burn the wood slower. Keeping the Burn Rate Selector to the left will provide a stronger fire and keep the glass of the fireplace cleaner for longer. Adjust the burn rate according to your heating requirements and the quality of your wood. The combustion air control will automatically and gradually close the primary air source to the selected burn rate setting (right lever) with the presence of heat to maximize the burn time.

NOTE: The Burn Rate Selector can remain at the same setting at all times if the burn rate is satisfactory. However, the Activator must be pushed in when starting a fire or when adding a new load of wood.

WARNING: The combustion air openings should never be obstructed.

WARNING: Never manipulate the Combustion Air Control with bare hands as it gets hot when the LUMIS is in operation. Use the Cold Hand Key to adjust the Combustion Air Control.

WARNING: This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.

4.4 Starting a High Efficiency Fire

The LUMIS has patented technologies and innovative features that make starting a fire quick and easy. Before starting a fire, assure that all the safety precautions mentioned in the owner's manual are being respected. Prior to starting a fire, check whether the unit is drafting correctly – please refer to Section 5.1 if a light breeze is felt from within the firebox. The following instructions describe starting a fire in the LUMIS fireplace insert using a “top-down” approach, which results in a cleaner, more efficient, and longer burn:

- Place large to medium size logs on the hearth of the firebox in the north-south direction. The logs should sit directly on the hearth with adequate space between them to allow for proper air flow. Do not use a fireplace grate.
- Place medium to small logs at an angle on top of the logs from step a).
- Add a layer of kindling wood on top of the logs from step b). Keep a good distance from the top layer of the kindling/logs and the baffle system (approximately 3 inches).
- Push the left combustion control lever (the Activator) inwards.
- Slide the right combustion control lever (the Burn Rate Selector) to the maximum burn rate position (towards the left).
- To achieve a “top-down” combustion, ignite the top layer of kindling/logs. A firestarter can be used to facilitate ignition.
- Once the top layer has properly ignited, close the door. Do not leave the door open for more than 2 minutes.



Figure 4-1: Non-recommended Wood Configuration

NOTE: Install a carbon monoxide (CO) and smoke detector near the location of the unit with respect to the requirements of the authority having jurisdiction in your area.

CAUTION: The wood should be placed away from the door to avoid damage to the glass.

WARNINGS: Over firing the unit may result in overheating and can damage the fireplace and/or result in fire hazards. The maximum firewood load must not exceed the recommended amount with respect to the wood heater model (15 lbs for LUMIS 16 and 20 lbs for LUMIS 22). This fireplace has been designed to burn with the door closed. When the fireplace is being used, the door should



Figure 4-2: Recommended Wood Configuration

remain closed at all times. Failing to do so is a safety hazard, will damage the fireplace and void the warranty.

WARNING: Do not use fire accelerants to rekindle the fire if the first attempt to start the fire failed. Do not open the door. Simply reactivate the Activator by pushing it inwards.

NOTE: Sufficient air exchange is necessary for the fireplace to operate properly. Air is required to maintain the combustion of the fireplace. If the house is airtight, the fireplace may not function properly. If the fireplace is deprived of air, it will be necessary to provide a source of fresh air into the dwelling. This may be done by using an air exchanger unit or simply by opening a window or a door near the fireplace partially for a few minutes. Make sure that other equipment such as the kitchen exhaust fans or oil central heating systems does not affect the fireplace functionality. Large return ducts of central heating systems located in the same room as the fireplace may affect the proper functioning of the unit and may cause smoking.

4.5 Adding a Load of Wood

WARNING: Open the door to reload only when the wood has been reduced to embers, otherwise there is a risk of smoke infiltration into the house.

When the wood has been reduced to embers and there's no visible flame, you may add a new load.

- a) Turn the fans off.
- b) Crack the LUMIS door open and wait a few moments before opening the door completely.
- c) Use your fireplace tools to gather the remaining embers at the center of the firebox.
- d) Position the Burn Rate Selector to the desired setting and activate the Activator by pushing it in.
- e) Once the embers begin to glow red, add the new load of wood in the firebox.
 - a. Place the first row of wood (2 pieces) in the north-south direction on the center of the hearth, with an adequate space between the logs.
 - b. Place the second row of wood (2 pieces), in the east-west direction with an adequate space between the logs.
 - c. Place the fifth log on top of the first and second row, in a diagonal direction.
- f) Keep the door of the LUMIS slightly unlatched until you see a flame in the firebox. Never leave the LUMIS door unlatched without constant supervision.
- g) Completely latch the LUMIS door.
- h) Fans can be turned on once proper ignition has been achieved of the newly added wood.

Assure that a flame is maintained. Avoid wood smoldering on top of embers as this will result in a dirty glass, excessive emissions, chimney creosote buildup and poor heat output. If wood is smoldering, ensure the Activator has been activated and unlatch the door slightly with supervision until a flame has been maintained.

4.6 Blower Kit

A blower kit is included on the LUMIS fireplace insert, which comprises of two compact blowers (LUMIS 16: 120V, 60Hz, 0.23A / LUMIS 22: 115V, 60Hz, 0.86A), mounted on the door holder on either side of the firebox and a heat sensory thermodisk. The kit also includes a variable speed control to adjust the speed of the fans and a rocker switch to activate the fans independently, both installed on the surround. **WARNING: Only a blower provided by SUPREME FIREPLACES INC. can be installed into the fireplace. Substituting the blower kit may result in overheating, will void the warranty and can be hazardous.**

CAUTION: Do not route the power cord under or in front of the unit, on hot surfaces, and on sharp edges.

CAUTION: Disconnect the power supply when accessing any electrical components in the LUMIS fireplace insert.

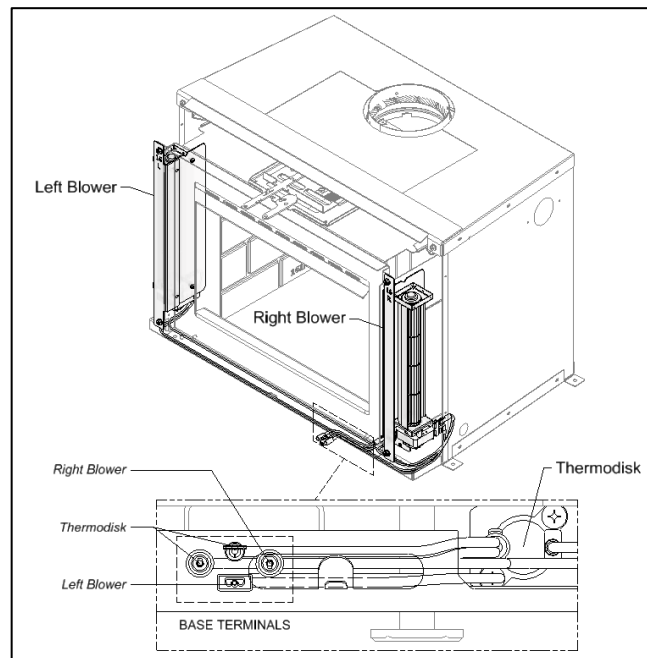


Figure 4-3: Blower Kit (Base Configuration)

Once the power cord has been plugged to the nearest 115V outlet or the corresponding breaker switch turned on, the fans will turn on and turn off automatically if the rheostat is turned to a set speed. The fans will turn on when the thermodisk located under the firebox of the insert reaches 95°F. The average time it takes for the fans to activate is 30 to 45 minutes after starting a fire as illustrated in Section 4.4 [Starting a Fire](#). The fans will turn off once the insert has cooled down and the thermodisk reaches 85°F. The speed of the fans can be adjusted with the variable speed control (clockwise to reduce speed and counter-clockwise to increase). To manually shut-off the blower kit, turn the counter-clockwise until the knob “clicks”. See Figure 4.12. To activate the fans independently from the thermodisk, turn on the rheostat and then turn on the rocker switch just above.

To proceed with the installation, refer to Table 4-1 for the complete installation instructions and details of the LUMIS Blower Kit. Figure 4-4 shows the Electric Diagram of the LUMIS Blower Kit.

CAUTION: Carefully put the LUMIS Surround face down on a soft surface aside before proceeding with the Blower Kit installation.

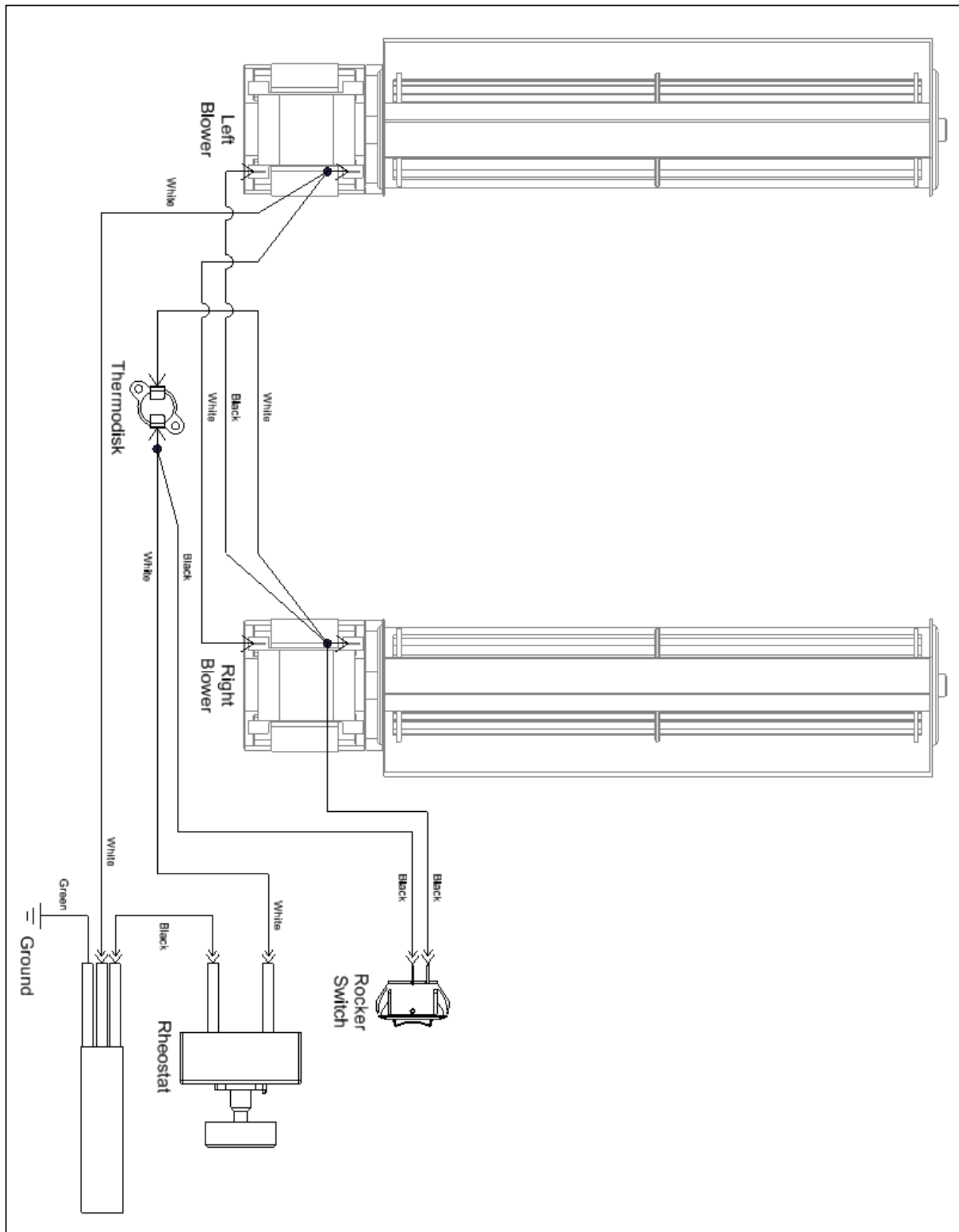


Figure 4-4: LUMIS Blower Kit - Electrical Diagram

Table 4-1: LUMIS Blower Kit Installation Instructions

Blower Kit Removal

Follow these instructions (Figure 4-5) to remove a part of the blower kit for maintenance or to change the outlet side from right (factory) to left. *There's a space between the door holder and the base to pass the wires.*

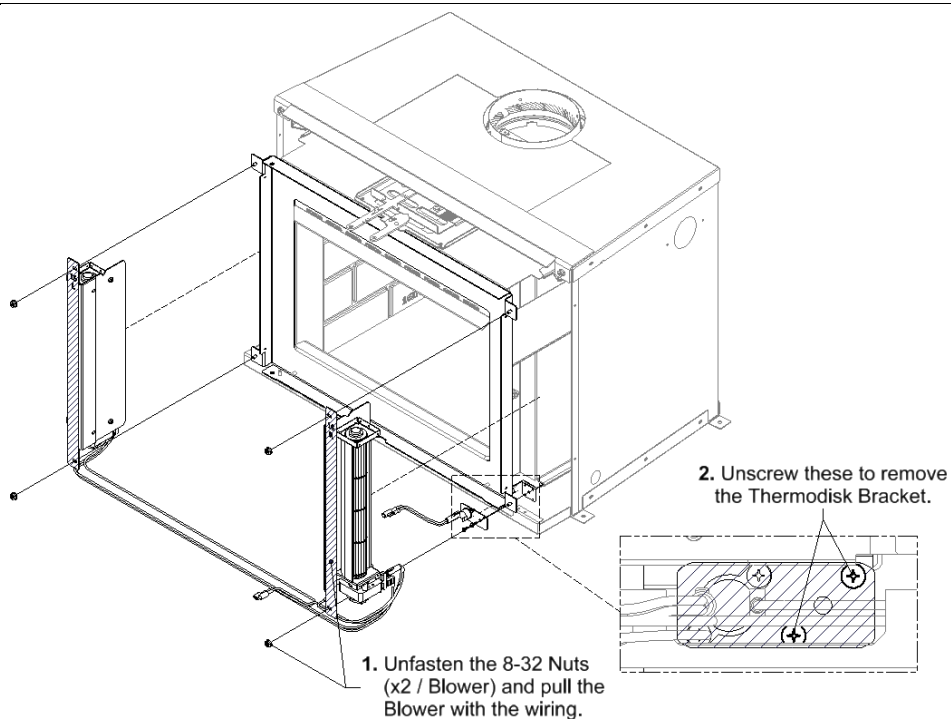


Figure 4-5: Blower Kit Removal

(Optional)

Left Side Outlet Configuration

It is necessary to change the side of the electrical components of the base to install the unit for a left side outlet. First, remove the blower kit (see Figure 4-5) and then proceed with these instructions (Figure 4-6). Reinstall and reconnect the electrical components of the Electrical Diagram (Figure 4-4).

The Rheostat, Rocker Switch, Power Cord / Armored Cable and Wires are now mirrored.

Note:

- Make sure the long wires are placed inside the base, use a flat head screwdriver to push them underneath.

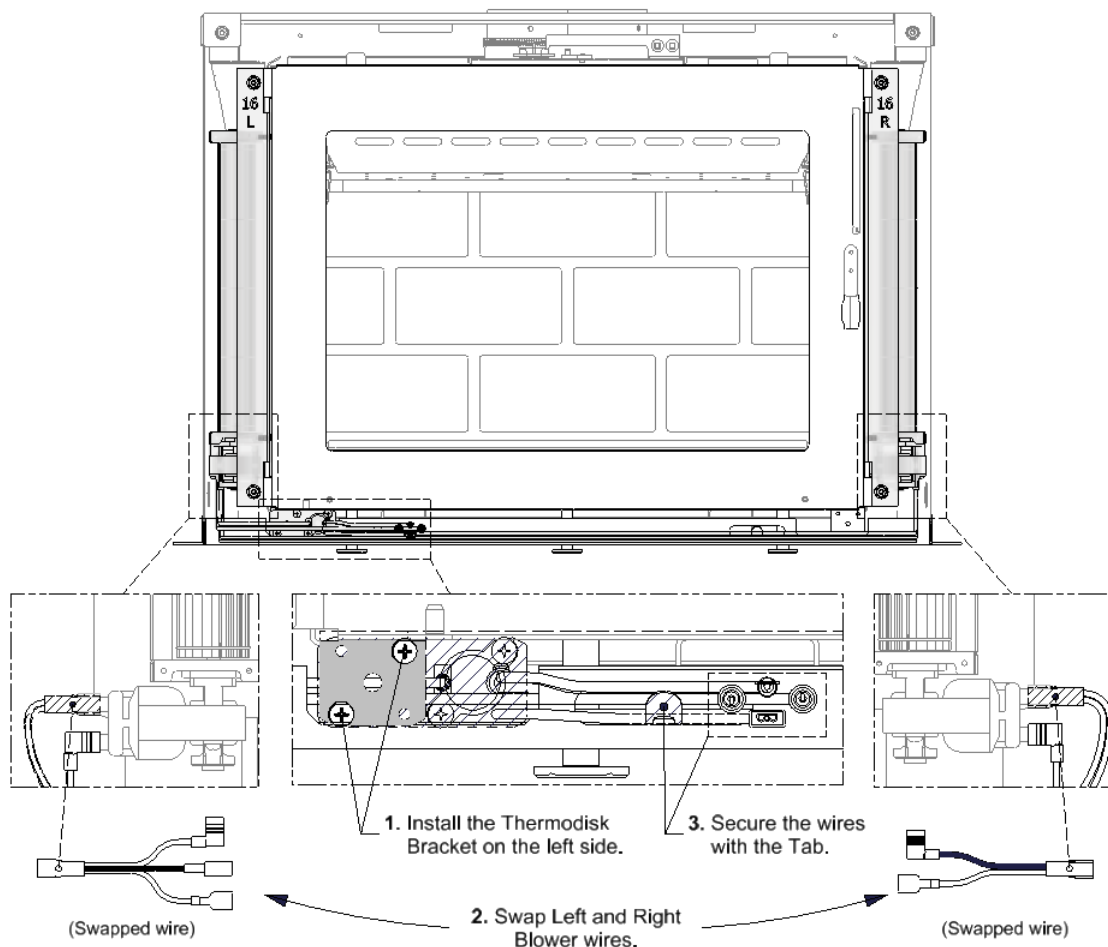


Figure 4-6: Left Side Outlet Configuration

Installation STEP 1

Surround Electrical Components

Follow these instructions (Figure 4-7) to install the electrical components of the LUMIS surround.

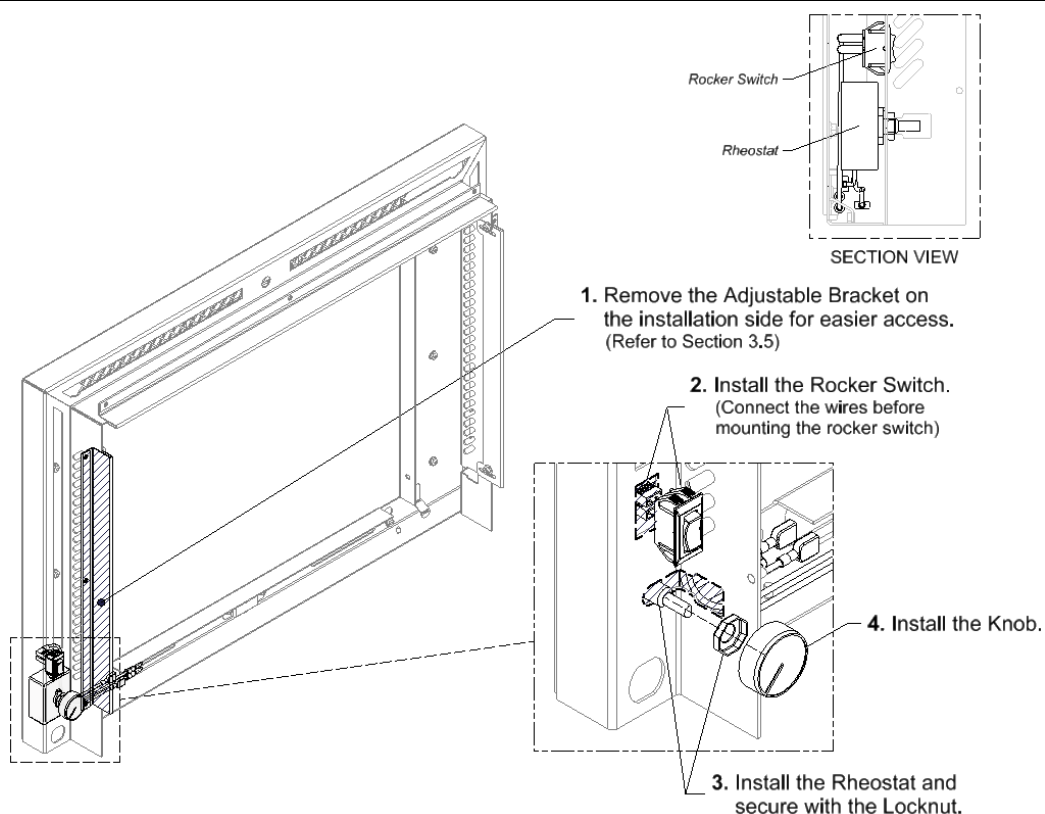


Figure 4-7: Surround Electrical Components Installation

Installation STEP 2 (Standard)

Power Cord Installation (Surround Outlet)

Follow these instructions (Figure 4-8) to install the included Power Cord.

Note:

- Make sure the Terminals are bundled together with the Cable Tie and accessible from the front opening. (See Figure 4-8 Step 3)

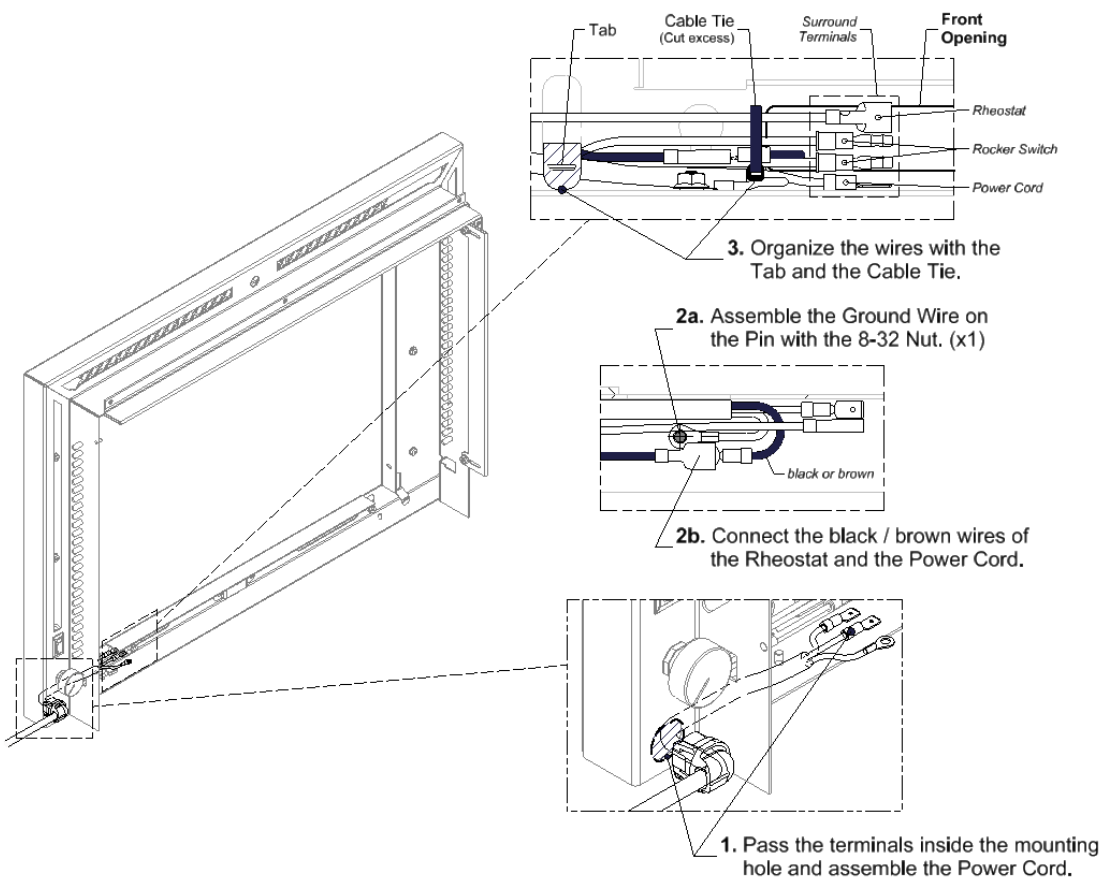


Figure 4-8: Power Cord Installation (Surround Outlet)

Installation STEP 2 (Optional)

Armored Cable Installation (Circulation Chamber Outlet)

Follow these instructions (Figure 4-9) to install the Optional Armored Cable. Install the other end of the cable to the electrical box.

Note:

- Make sure the Terminals in the Surround are bundled together with the Cable Tie and accessible from the front opening. (See Figure 4-8 Step 3)
- Armoured cable kit (IN_ARM_CAB_KIT) sold separately.

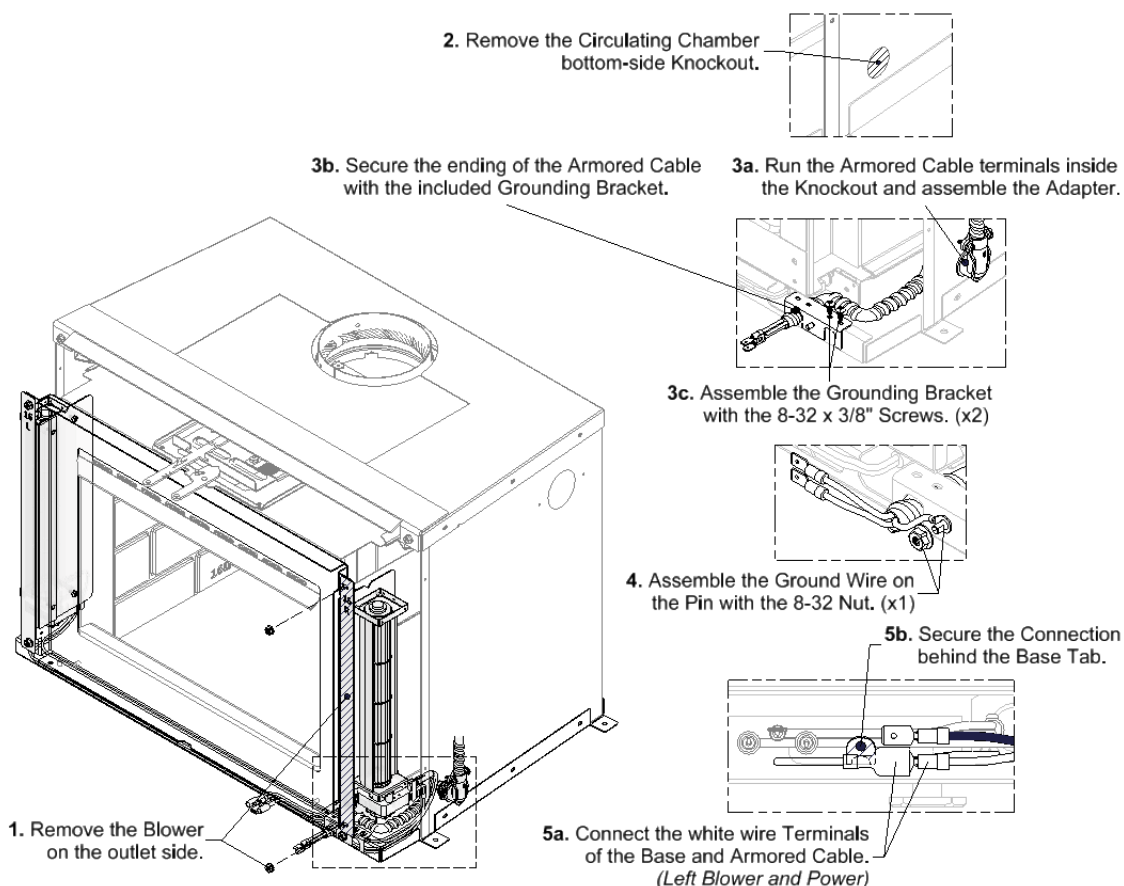


Figure 4-9: Armored Cable Installation (Circulating Chamber Outlet)

Installation STEP 3 (Standard)

LUMIS Surround Installation (With Power Cord)

Follow these instructions (Figure 4-10) to install the LUMIS Surround with a standard Power Cord.

Notes:

- Make sure the Backplate is installed prior proceeding (See Section 3.5).
- Make sure the Base Terminals are accessible.
- Use pincers to hold and connect the terminals.

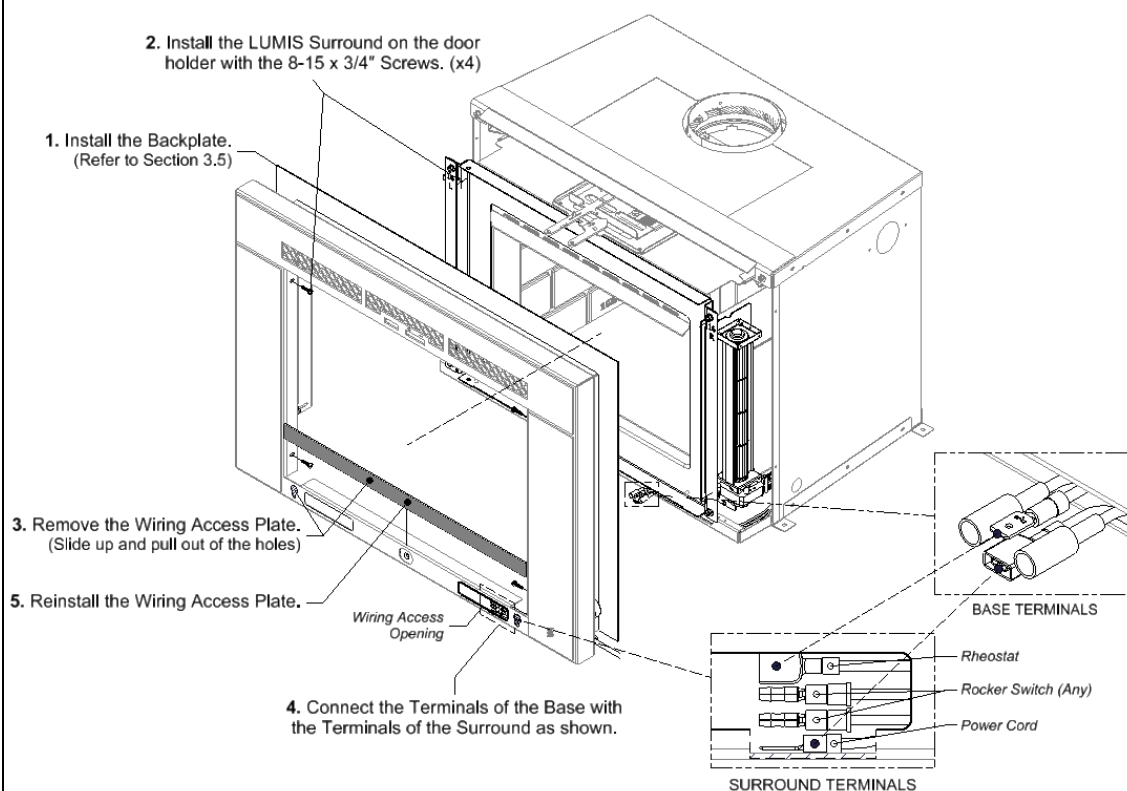


Figure 4-10: LUMIS Surround Installation (With Power Cord)

Installation

STEP 3 (Optional)

LUMIS Surround Installation (With Armored Cable)

Follow these instructions (Figure 4-11) to install the LUMIS Surround with an optional Armored Cable.

Notes:

- Make sure the Backplate is installed prior proceeding (See Section 3.5).
- Make sure the Base Terminals are accessible.
- Use pincers to hold and connect the terminals.

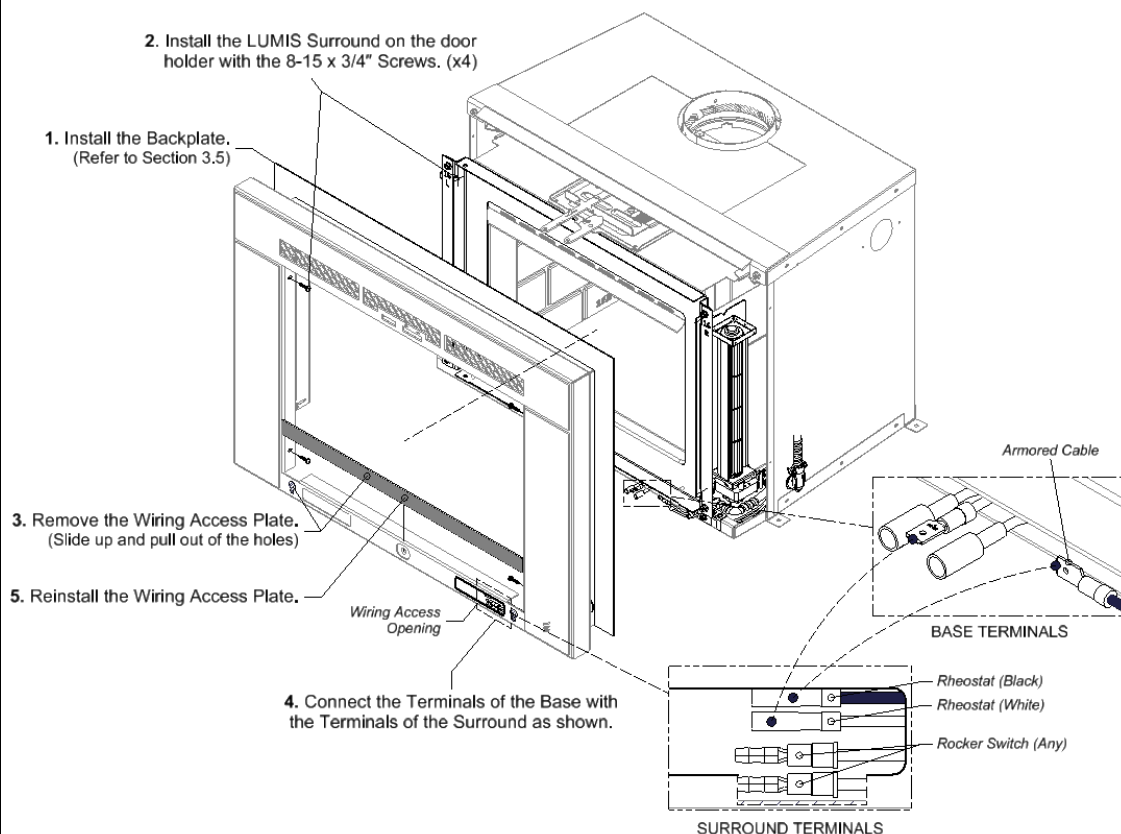


Figure 4-11: LUMIS Surround Installation (With Armored Cable)

Door Installation

Follow these instructions (Figure 4-12) to install the door on the LUMIS insert.

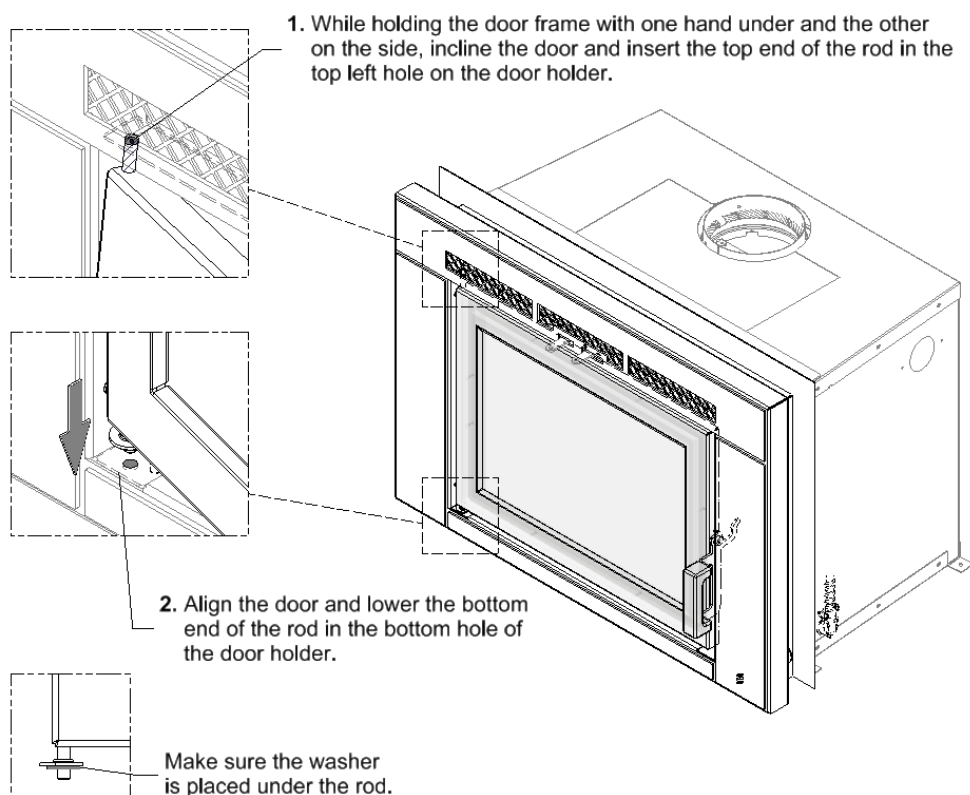


Figure 4-12: Door Installation

Blower Kit Testing

To test the Blower Kit, turn on the Rheostat by turning the knob clockwise until it "clicks". Turning the Rocker Switch on should activate the blowers at maximum speed (See Figure 4-13). Keep turning clockwise to reduce the speed to the desired output - that will be the setting for when the blowers are activated by the thermodisk. Turn off the switch when finished.

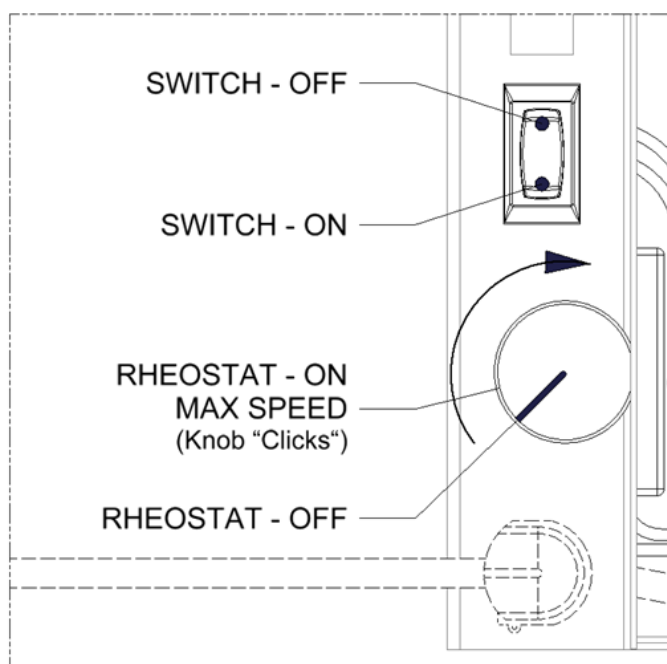


Figure 4-13: Blower Kit Testing

LUMIS Surround Removal

Follow these instructions (Figure 4-14) to remove the LUMIS Surround for maintenance or inspection.

Notes:

- Remove the door before proceeding.
- Use pincers to hold and disconnect the terminals.

WARNING:
Unplug the Power Cord or turn the corresponding breaker switch off before accessing the wiring.

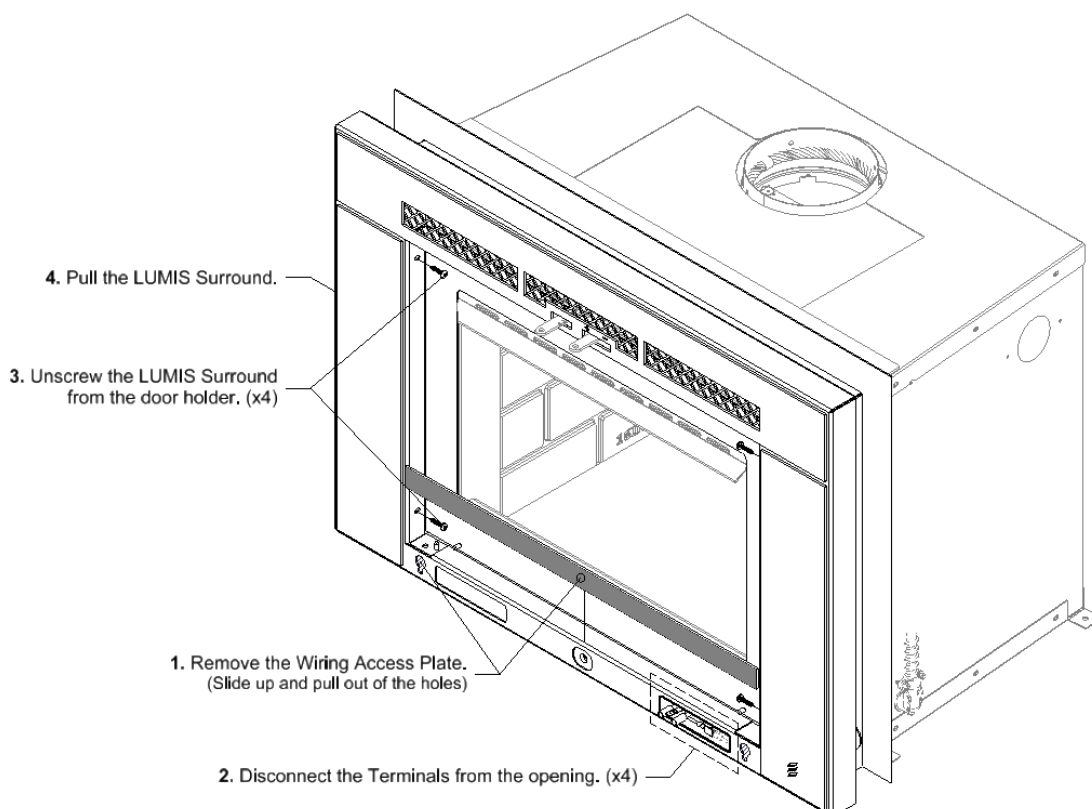


Figure 4-14: LUMIS Surround Removal

4.7 Fresh Air Kit (Optional)

Sufficient air exchange is necessary for the fireplace to operate properly and to maintain a good combustion. In an airtight household, the fireplace may not function as designed due to a lack of air; it is therefore recommended to install the fresh air kit in such cases. The fresh air system is an optional kit intended to bring combustion air into the fireplace from an exterior source.

Note that the LUMIS is designed to use a minimum amount of air during operation. Using an air exchanger or simply opening a nearby window/door during the ignition of the unit will achieve a similar result as the fresh air kit. When the fireplace is idle, there is no air escaping from the house through chimney. **Consult a local authority having jurisdiction (such as the fire department, the municipal building department, the fire prevention bureau)**

to determine if it is mandatory to install a fresh air kit in your area.

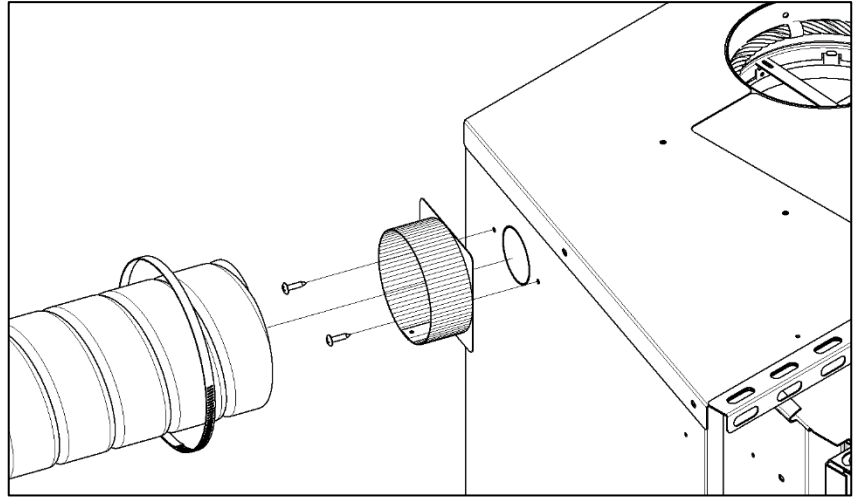


Figure 4-15: Fresh Air Adapter Installation

General Notes:

The outside air kit should be installed according to the following guidelines:

- The air duct must be insulated, wrapped with a vapor barrier, and have an inner diameter of 4 inches.
- The air duct must be constructed of non-combustible materials.
- The length of the air duct should not exceed 25 feet.
- The duct should not be elevated more than 10 feet from the base of the unit.
- Fresh air must come from the outside and not from another room or the attic.
- The outside register must be away from automobile exhaust fumes, gas meters, or other vents.
- The outside register must be constructed out of a minimum 20Ga wire mesh with openings not larger than ¼" X ¼" (6.4 X 6.4 mm) with the purpose of preventing any debris and rodents from entering the air duct.
- Avoid installing the air register where it will likely be covered by snow or exposed to strong winds.
- The air register can be installed above or below the level of the fireplace.
- Use the SUPREME FIREPLACES INC. Fresh Air Adapter (ADP4) provided with the unit.
- Use the SUPREME FIREPLACES INC. Fresh Air Kit (UPEA4) for installations of 10 feet or less.
- Use the SUPREME FIREPLACES INC. Fresh Air Kit (UPEA4_25) for installations between 10 to 25 feet.

Installation:

1. Cut 4 ½" diameter hole on the exterior wall of an ideal location.
2. Install the air register on the exterior wall.
3. Remove the 2" knockout from side wall of the circulating chamber and insert the fresh air adapter (ADP4_IN).
4. Secure the fresh air adapter to the side of the fireplace using two screws.
5. Install the air duct (UPEA4 or UPEA4_25) and secure it with worm gear clamps.

5 TROUBLESHOOTING

5.1 Backdraft / Smoking

Draft is the force created by a difference in pressure, which moves air from the appliance up through the chimney. It is important to operate the LUMIS with proper draft to ensure optimal performance of the unit. Draft is depended on the length of the chimney, local geography, nearby obstructions and other factors. Proper draft results in an upwards flow through chimney, which prevents smoke infiltrating into the house during operation of the unit. As the temperature of the unit and chimney rises during combustion, the draft consequently increases due to a higher difference in pressure.

In contrast, backdraft is air flow from the chimney into the house, which results in smoke infiltration from the appliance and/or the chimney joints during operation. The unit is experiencing backdraft if air is flowing out from the exhaust of the baffle system (within the firebox). Backdraft is most commonly caused by fans around the house (such as in the kitchen and bathrooms) simultaneously in operation, another fireplace/stove within the household in operation, insufficient length of the chimney (less than 15 feet), inadequate ventilation, or a blocked chimney. Refer to the following suggestions to eliminate backdraft:

- Close any fans operating around the house (specifically for the duration of ignition).
- Clean the chimney of any obstructions (when the unit is cold).
- Open one window or one door near the LUMIS.
- Heat the chimney.

5.2 Over Firing

The appearance of a red glow on the exterior of the firebox (top and sides) and/or on the flue is a sign of over firing. Excess air entering the firebox, over fueling, or an abnormal strong draft causes the unit to reach drastic temperatures from an uncontrollable combustion. Over firing is a safety hazard and may result in permanent damage to the unit. In the occurrence of over firing:

- a) Make sure the LUMIS door is properly closed.
- b) Manually close the Combustion Air Control by pulling the Activator (left lever).
- c) Turn on the blower to the maximum speed. The red glow on the exterior of the firebox and/or the flexible liner should gradually disappear.

WARNING: Do not touch hot surfaces with bare hands. Always wear heat protecting gloves and use fireplace tools.

Guideline to avoid over firing:

- Always keep the door closed during operation.
- Inspect regularly the door gasket/glass and replace accordingly.
- Always operate the unit with the chimney sweeping cap in position, blocking the hole in the baffle.
- Never load more than the recommended amount of wood at a time (15 lbs for LUMIS 16 and 20 lbs for LUMIS 22).
- Ensure that there is no excess draft.

WARNING: Failure to follow the above guideline will void the warranty. Over firing is a safety hazard, can cause irreversible damages to the LUMIS and will void the warranty.

6 MAINTENANCE

6.1 Disposal of Ashes

Ashes should be placed in a metal container with a tight-fitting lid and taken outside. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial on soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled. **CAUTION: Always wear heat resistant gloves when removing the ashes from the firebox.**

- a) Let the firebox cool to ambient temperature before removing the ashes. It is recommended to remove the ashes once the bed has exceeded a height of 4 inches.
- b) Slowly open the door to prevent ashes from coming into the room.
- c) Place an ash bucket (metal container) near the fireplace, onto the non-combustible hearth.
- d) Using a shovel and brush, remove the bulk of the ashes from the firebox into the ash bucket. Note that it is not necessary to keep a thin bed of ashes for the next fire.
- e) Store the ash bucket (with the tight-fitting lid) on a non-combustible surface, away from any combustible materials, pending final disposal.

6.2 Chimney Maintenance

Creosote – Formation and Need for Removal: When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapor condenses in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney connector and chimney burning wood or coal should be inspected at least once every two months during the heating season to determine if creosote buildup has occurred. The presence in a chimney of soot or creosote in excess of 3 mm thick will indicate the need for immediate cleaning, possible modification of burning procedures, and more frequent inspections. Note that continuously operating the unit with green or wet wood will result in premature creosote buildup. **Never use chemical cleaners for your chimney.**

WARNING: In the case of a chimney fire:

1. Close the door of the fireplace.
2. Set the burn rate of the Combustion Air Control to minimum (Section 4.3 [Operating the Combustion Air Control](#)).
3. Call the local fire department (if assistance is needed).
4. Use a dry chemical fire extinguisher (baking soda or sand) to control the fire.
5. Get out of the house.

CAUTION: Never use water to extinguish a fire as it may result to dangerous steam explosions. Do not use the unit until the chimney is inspected and repaired (if needed) by a qualified technician.

NOTE: Do not clean the chimney when the unit is in operation/hot. Follow the instructions below for sweeping the chimney of a LUMIS fireplace insert:

- a) Open the door of the unit.
- b) From within the firebox, displace the chimney sweeping cap located in the baffle by lifting and moving it to the side.
- c) Close the door of the unit.
- d) Using an appropriately sized chimney sweeping brush, clean the chimney from any creosote buildup and other residues.
- e) Remove all the fallen/loose creosote/residues from the firebox and baffle system (a shop vacuum cleaner can be used for a thorough cleaning).

- f) Inspect and place of the chimney sweeping cap back in baffle opening.

CAUTION: Operating the unit without the chimney sweeping cap in position will result in over firing and void the warranty.

6.3 Cleaning of Glass

It is recommended to clean the glass door with a soft cloth, dampened with a non-abrasive solution, such as soap and water.

CAUTION: Cleaning the glass with an abrasive solution will result in surface scratches, reducing glass transparency and resistance to impacts.

The glass of the door may be cleaned with commercial products intended for fireplaces and stoves. After cleaning the glass, remove any remaining solutions with a wet cloth to avoid chemical reactions at elevated temperatures ("cloudiness" on the surface of the glass).

CAUTION: Building a fire too close to the door increases the chances of dirtying the glass.

CAUTION: Do not apply commercial cleaners onto any painted surfaces as discoloration/peeling may occur.

NOTE: Never clean the glass when the unit is in operation or hot.

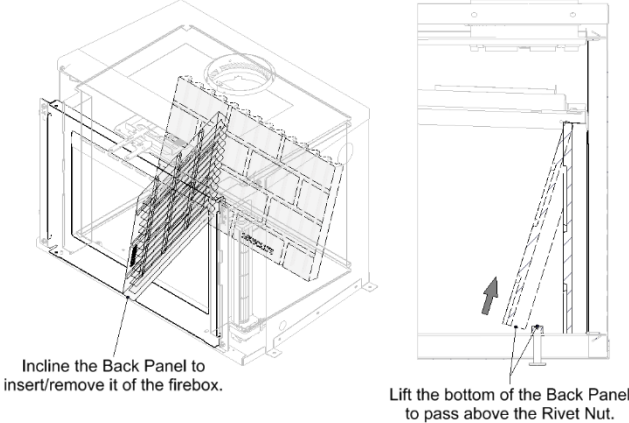
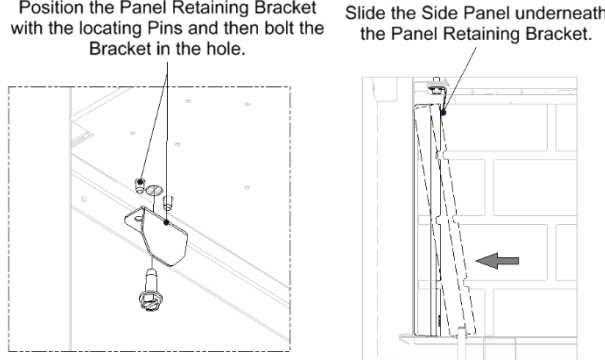
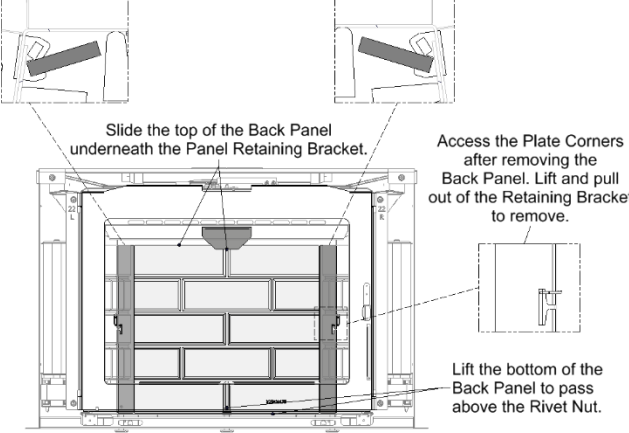
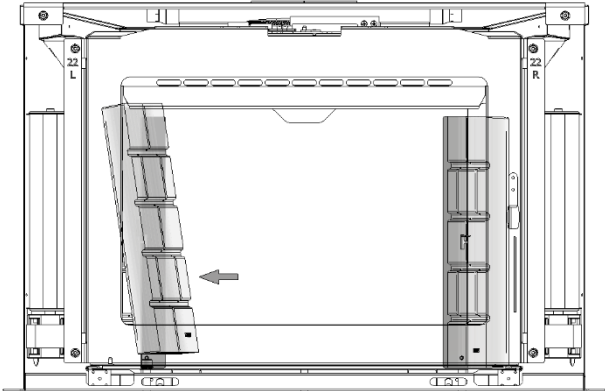
6.4 Replacing Cast Iron Panel

Three cast iron panels are assembled along the combustion chamber side walls (left, right, and back) allowing for a longer and a constant heat output. It is recommended to perform a periodic check on the condition of the panels to ensure proper operation of the unit. The cast iron panels need to be replaced when it is gravely chipped and/or cracked. Failure to replace the cast iron panel under the mentioned conditions will alter the performance of the unit. Refer to the following instructions and Table 6-1 for replacing a cast iron panel:

- a) Order the replacement cast iron panel for the LUMIS (refer to Section 6.10 for part number).
- b) Remove the door from the firebox and place it face down on a soft surface. **NOTE:** Rotate the handle to permit proper placing.
- c) Remove the bottom plate (hearth) by lifting it out of the firebox.
- d) Replace the damaged cast iron panel and position the panels back in place as per Table 6-1. **NOTE:** Make sure the cast iron panels are sitting properly on the sides of the firebox.
- e) Insert the bottom plate (hearth) and door to its original position.

WARNING: Do not operate the unit with any of the cast iron panels missing.

Table 6-1: Cast Iron Removal / Installation

LUMIS 16	 Incline the Back Panel to insert/remove it of the firebox. Lift the bottom of the Back Panel to pass above the Rivet Nut. Figure 6-1: LUMIS 16 – Back Cast Iron Panel	 Position the Panel Retaining Bracket with the locating Pins and then bolt the Bracket in the hole. Slide the Side Panel underneath the Panel Retaining Bracket. Figure 6-2: LUMIS 16 – Side Cast Iron Panel / Panel Retainer Bracket
	Removal - Remove the Side Panels first. - Grab the Back Panel sides and lift the bottom over the Rivet Nut. - Incline Panel as shown and pull it out of the firebox. Installation - Grab the Back Panel sides and incline it to enter the firebox. - Lift the Back Panel bottom above the Rivet Nut and push it in the back of the firebox.	Removal - Grab the Side Panel sides and slide it underneath the Panel Retainer Bracket(s). - Remove the Panel Retainer Bracket(s) by unbolting the 3/8 Hex. Installation - Install the Back Panel first. - Install the Panel Retainer Bracket(s) by bolting the 3/8 Hex. - Slide the Side Panel underneath the Panel Retainer Bracket(s).
LUMIS 22	 Slide the top of the Back Panel underneath the Panel Retaining Bracket. Access the Plate Corners after removing the Back Panel. Lift and pull out of the Retaining Bracket to remove. Lift the bottom of the Back Panel to pass above the Rivet Nut. Figure 6-3: LUMIS 22 – Back Cast Iron Panel / Plate	 Figure 6-4: LUMIS 22 – Side Cast Iron Panel
	Removal - Grab the Back Panel sides and lift the bottom over the Rivet Nut while sliding the bottom forward. - Pass the top of the Back Panel underneath the Panel Retaining Bracket. - Access the Plate Corners in the back corners of the firebox, after removing the Side Panels.	Removal - Remove the Back Panels first. - Grab the Side Panel sides and lift the bottom over the Rivet Nut. Use a flathead screwdriver to lift the bottom if necessary.
	Installation - Install the Plate Corners and Side Panels first. - Slide the top of the Back Panel underneath the Panel Retaining Bracket. Push the bottom of the Panel while lifting the bottom over the Rivet Nut.	Installation Grab the Side Panel sides and lift the bottom over the Rivet Nut. Use a flathead screwdriver to lift the bottom if necessary. Push the Panel against the side of the firebox.

6.5 Replacement of Door Gasket

SUPREME FIREPLACES INC. assembles heat resistant graphite coated gaskets on the doors of all products, allowing for a proper seal of the unit at extreme temperatures (up to 538 °C / 1000°F). It is recommended to perform a weekly visual check on the condition of the ¾" gasket to ensure proper operation of the unit. The ¾" gasket of your door needs to be replaced when 1) the fibers of the gasket are coming loose and 2) the gasket is disintegrating (2 years). Failure to replace a gasket under the mentioned conditions can cause irreversible damage to the unit due to over firing. Refer to the following instructions for replacing the ¾" gasket:

- Order the replacement kit for the LUMIS ¾" door gasket (GSK_75_7).
- Remove the door from the firebox and place it face down on a soft surface. NOTE: Rotate the handle to permit proper placing.
- Cover all painted surfaces of the door to avoid damages.
- Using a wedging tool or flat head screwdriver, gently remove the old ¾" gasket (along with the old silicone) from the door framing.
- Apply a bead of high temperature silicone along the groove of the metal brackets.
- Place the new ¾" gasket around the door framing and cut any excess gasket with scissors. NOTE: It is recommended to tape the extremity of the gasket for a cleaner result.

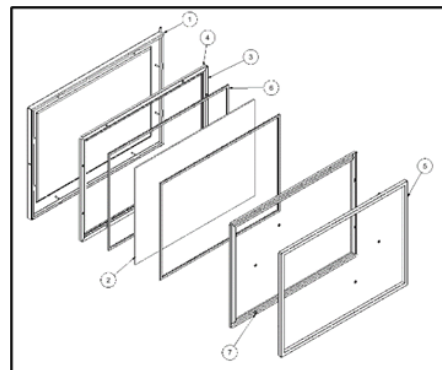


Figure 6-5: Exploded View of Door Assembly

Give significant amount of time to allow the silicone to cure before reinstalling the door onto the firebox. A slight resistance is expected when closing the door with the new ¾" gasket; the door will close normally after the gasket has taken proper shape.

6.6 Replacement of Glass

SUPREME FIREPLACES INC. uses a high quality 5mm thick Pyroceram III / Keralite ceramic glass that can withstand temperatures up to 704°C / 1300°F. It is recommended to perform a weekly visual check for any damages or cracks on the glass.

WARNING: Avoid striking the glass and slamming the door shut. Never operate the unit with a broken or damage glass.

CAUTION: Wear protective gloves when handling broken glass. Refer to the following instructions for replacing the glass:

Table 6-2: Parts List of Door Assembly

Item	LUMIS 16 Code	LUMIS 22 Code	Description	Qty
1	DR5110	DR4110	Door frame assembly	1
2	PYRO_16.5X11.75	PYRO_18.75X13.75	Pyroceram glass	1
3	DR_1285	DR_1488	Vertical metallic bracket	4
4	DR_1756	DR_1988	Horizontal metallic bracket	4
5	GSK_75_7	GSK_75_7	Thick gasket	1
6	GSK_31_7	GSK_31_7	Thin gasket	2
7	NUT 8-32	NUT 8-32	8-32 nut	8

- Order the replacement kit for the LUMIS glass and gasket (refer to Table 6-2 for part number).
- Remove, clean, and dispose any broken glass from the door and the surroundings.
- Remove the door from the firebox and place it face down on a soft surface. NOTE: Rotate the handle to permit proper placing.
- Using a wedging tool or flat head screwdriver, gently remove the ¾" gasket (along with the silicone) from the door framing.
- Using a wrench, remove the 8 nuts fastened around the door framing.
- Remove the first row of metal brackets (2 small and 2 big) and thin gasket.
- Remove the damage glass and clean thoroughly the door framing from loose glass fragments.
- Place the new glass onto the second row of thin gasket, centered with the door framing.
- Place back the first row of metal brackets (2 small and 2 big) and thin gasket.
- Using a wrench, fasten the 8 nuts around the door framing (do not over-tighten).
- Apply a bead of high temperature silicone along the groove of the metal brackets.
- Place the ¾" gasket back into position.

m) Give significant amount of time to allow the silicone to cure before reinstalling the door onto the firebox.

NOTE: Replacing the glass with a non-conform substitute material may cause irreversible damage to the unit, bodily harm, and void the warranty.

6.7 Door Latch Lubrication

Lightly lubricate the hook of door latch (SFC0031) with graphite grease on a yearly basis to prevent abrasive wear. Occasionally inspect the bushing of the door latch. If required, adjust the tightness of the latch bolt using a 5/32" hex key.

6.8 Paint

Paint touch-ups can be performed on the unit using a high temperature paint (in aerosol spray can format) by Stove Bright®. Refer to your invoice to determine the precise color of your unit⁹. Contact your local hearth shop for further information on purchasing this paint.

NOTE: Apply the paint in a well ventilated area. If applying paint to the door, properly cover/mask the glass of the door using painters tape and cardboard. Wait for paint to dry before operating the unit. Refer to the instructions on the label of the aerosol spray can for proper paint application. **WARNING: Never apply paint to the unit during operation or when it is hot.**

6.9 Removal of LUMIS

Occasionally, a technician or an inspector may require the fireplace insert to be temporarily removed from the masonry fireplace; therefore, refer to the following instructions for proper removal of the LUMIS:

- a) Remove and dispose any ashes from within the firebox (see Section 6.1 [Disposal of Ashes](#))
- b) Remove the door of the firebox and place it at a safe location to avoid any damage.
- c) Remove the surround of the unit by unscrewing the 4 screws at each corner of the door holder.
Refer to Figure 4-14 to disconnect the Blower Kit. WARNING: Disconnect the power supply when accessing any electrical components in the LUMIS fireplace insert.
- d) From within the firebox, displace the chimney sweeping cap located in the baffle by lifting and moving it to the side.
- e) Straighten the clips of the adaptor.
- f) Use the handle to push the adaptor upwards and disconnect it from the firebox.
- g) Safely remove the fireplace insert.

Refer to Section 3 [INSTALLATION INSTRUCTIONS](#) for reinstalling the firebox and the surround.

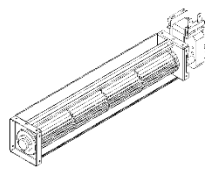
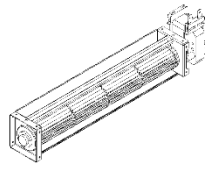
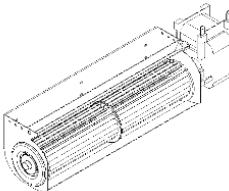
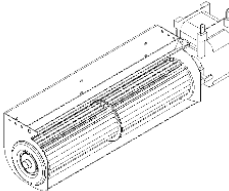
CAUTION: Never remove the fireplace insert while still in operation (hot).

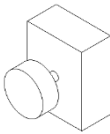
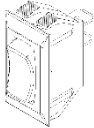
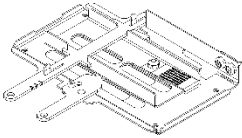
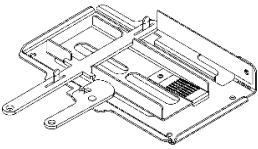
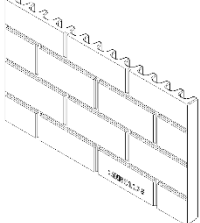
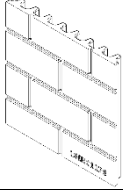
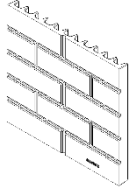
WARNING: Unplug the Power Cord or turn the corresponding breaker switch off before accessing the wiring.

⁹ Stove Bright® metallic black paint 6309

6.10 Replacement Parts

Refer to the codes from the table below for any replacement parts:

Code	Description	Illustration
SFC0032-01	Wood pull handle - metallic black	
PYRO_16.50X11.75	LUMIS 16 - 16.50" X 11.75" Pyroceram III / Keralite 5mm thick glass	
PYRO_18.75X13.75	LUMIS 22 - 18.75" X 13.75" Pyroceram III / Keralite 5mm thick glass	
GSK_31_7 (2X)	Graphite coated square gasket, 0.3125" thick, 7' length	
GSK_75_7	Graphite coated square gasket, 0.75" thick, 7' length	
30CFM_TAN_BLW_RH	30 CFM AC Tangential Blower Right (for LUMIS 16) <u>Electrical rating:</u> 120V, 60Hz, 0.23A <u>Certification:</u> UL Recognized (Canada and USA)	
30CFM_TAN_BLW_LH	30 CFM AC Tangential Blower Left (for LUMIS 16) <u>Electrical rating:</u> 120V, 60Hz, 0.23A <u>Certification:</u> UL Recognized (Canada and USA)	
90CFM_TAN_BLW_RH	90 CFM AC Tangential Blower Right (for LUMIS 22) <u>Electrical rating:</u> 115V, 60Hz, 0.86A <u>Certification:</u> UL Recognized (Canada and USA)	
90CFM_TAN_BLW_LH	90 CFM AC Tangential Blower Left (for LUMIS 22) <u>Electrical rating:</u> 115V, 60Hz, 0.86A <u>Certification:</u> UL Recognized (Canada and USA)	
TOD	Thermodisk <u>Electrical rating:</u> 120VAC, 15A <u>Certification:</u> UL/CSA	

WALL_RHEO	Speed Control <u>Electrical rating:</u> 2.5 Amps, 115VAC – 50/60Hz <u>Certification:</u> UL, ULC	
ELEC_ROCK_SWITCH	Rocker Switch <u>Electrical rating:</u> 16A 125V <u>Certification:</u> UL/CSA	
PA5400-01	LUMIS 16 Primary Combustion Air Control	
PA5100-01	LUMIS 22 Primary Combustion Air Control	
CM0020	Cold Hand Key	
16INC1175 (1X)	Cast Iron Back Panel 18.5" X 16.63" X 1.25"	
16INC1176 (2X)	Cast Iron Side Panel 11.00" X 10.63" X 1.25"	
22INC1175 (3X)	Cast Iron Panel 14.00" X 12.75" X 1.25"	

7 WARRANTY

SUPREME FIREPLACES INC. warrants that the factory-built fireplaces, fireplace inserts, and stoves will be free from defects in material and workmanship, under normal use and service, for a period of **ten (10) years** from the date of purchase.

This warranty is only intended for the original retail purchaser and is non-transferable, given that the product was purchased from SUPREME FIREPLACES INC. or one of its authorized dealers. This warranty is conditional upon correct installation and intended use of the products and does not cover damages caused by misuse. This warranty shall be void if the fireplace, fireplace insert or wood stove is not installed by an authorized qualified technician in accordance with the installation instructions in the manual provided with this product. The installation must meet local and national building codes.

Description	Coverage	Labour
Patented combustion air control, chimney sweeping cap, door handle (breakage only), door latch assembly, podium structure of wood stove series, legs of wood stove series, circulating chamber of fireplace insert series, bimetallic strip of combustion air control, removable ash lip, surround structure, cold hand key, wall intake and outtake grilles of gravity kit	10 years	2 years
Baffle (excluding bypass mechanism), bottom plate, stainless steel components, cast iron panel, firebox soapstone slab, exterior door frame, liner adaptor of Fusion series	5 years	2 years
Painted and plated parts, door gasket	2 years	1 year
Electrical components	2 years	90 days
Glass panel (thermal breakage only)	90 days	90 days

7.1 Warranty Limitations

Abuse and improper use of the unit may cause irreversible damage and will void the warranty.

Transportation, packaging, and other related costs or expenses arising from the replacement or repair of defective parts will not be covered by this warranty, nor will SUPREME FIREPLACES INC. assume responsibility for them.

Freight related damages of products that are shipped directly from the SUPREME INC. warehouse are covered under warranty if they were indicated on the Bill of Lading from the carrier and SUPREME FIREPLACES INC. is notified within 48 hours.

This warranty is void for any fireplace, wood stove or fireplace insert that wasn't purchased from an authorized SUPREME FIREPLACES INC. dealer.

The warranty does not cover any physical or esthetic damages that were caused by glass cleaners, soap, or any other cleaning products.

Soapstone is a natural material. Normal wear and tear of the soapstone may result in surface fractures or small hairline cracks. Since these do not affect the functionality nor the integrity of the product, the warranty only covers fractures that are over 3 mm thick and spread across one extremity of the slab to the other.

Deformations, discoloration, corrosion and scratches are not covered under warranty.

All parts are limited to one replacement per warranty term.

This warranty does not cover the labor or other related costs for the removal of a product already installed, the installation of a replacement product and the shipping and handling for the return of a product or for the replacement part.

This warranty applies to normal residential use only. Damages caused by acts nature or natural disasters, accidents, over firing, misuse, abuse, negligence, improper installation, alterations or substitutions of components of the fireplace, abrasives, chemical cleaners, and negligence are not covered by this warranty. Burning anything other than natural wood will damage your fireplace and void the warranty.

This warranty is void for any product that has been moved from its original installation location.

SUPREME FIREPLACES INC. will not be responsible for environmental conditions and drafting issues such as inadequate vents or ventilation, excessive venting configurations or negative air pressures which may or may not be caused by geographic elements, exterior elements and/or mechanical systems such as exhaust fans, furnaces, clothes dryers, etc.

The noise generated by the expansion and contraction of the metallic components is normal as they heat up and cool down and are not covered under the warranty.

Labour covered under the warranty must not exceed the retail price of the part being replaced, are based on a predetermined rate amount found in the dealer program, exclude dealer travel costs and are disbursed to the dealer.

The manufacturer at its discretion may decide to repair or replace any part or unit after inspection and investigation of the defect. The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).

The manufacturer shall in no event be responsible for any consequential damages of any nature, which are in excess of the original purchase price of the product.

Repairs and/or replacements of parts and labor covered under warranty must be preauthorized by SUPREME FIREPLACES INC.

A proof of purchase (copy of the invoice) is required for all warranty claims, as well as the completed warranty claim form and pictures/videos of the issue.

This **Limited Warranty** is effective on all appliances sold after May 31st, 2022, and supersedes any and all warranties currently in existence.

Please register your SUPREME product online at <https://supremem.com/warranty.php> to ensure full warranty coverage. Prior to contacting your dealer, have the following information available for warranty claim processing:

- Customer information (name, telephone number, and address)
- Proof of purchase
- Model name and serial number (see Section 2.17)
- Detailed description of defected component
- Pictures (minimum of three)
- Videos of the issues

In the case of a return for repair or replacement, it is the responsibility of the customer to adequately package the component/unit to prevent further damage during transport. Items sent to SUPREME FIREPLACES INC. without an open warranty claim will be returned to the sender.

7.2 Certification Label

DECEMBER 2024 / DÉCEMBRE 2024 CERTIFIED TO / CERTIFIÉ SELON: UL 1482, UL C 9823											
FLAM 25 ☐ LUMES 19 ☐ RÉGAL 16 ☐		FLAM 22 ☐ LUMES 22 ☐ RÉGAL 22 ☐									
1" (25 mm) Ø FLUE 5" (127 mm) Ø FLUE		MINIMUM CLEARANCES TO COMBUSTIBLES / DÉGAGEMENTS MINIMUMS AUX COMBUSTIBLES A ADJACENT SIDEWALL / MUR LATÉRAL 34 mm (1.5") B SIDE FACING / JAMBAGE 178 mm (7") C MANTTEL / MANTEAU 330 mm (13") D HEARTH / ATRE - USA 457 mm (18") E HEARTH / ATRE - CANADA 457 mm (18") H HEIGHT OF HEARTH / HAUTEUR DE L'ATRE (R-VL 2.957) - USA 89 mm (3.5") M HEIGHT OF HEARTH / HAUTEUR DE L'ATRE (R-VL 2.957) - CANADA 32 mm (1.25")									
				ELECTRICAL RATING VOLTAGE / VOLTAJE 120 V FREQUENCY / FRÉQUENCE 60 Hz CURRENT / COURANT 1.1 A				U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using end wood. Tested with EPA Method 289 end wood standard at 1.5 gph/ft (PLAN 25, LUMES 19, RÉGAL 16). Tested with EPA Method 289 end wood standard at 1.5 gph/ft (PLAN 25, LUMES 22, RÉGAL 22). This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual. Certification tests were performed by POLYTEST SERVICES INC. with PFS-TECO as the third-party certifier.			
• CONNECTED TO A CODE-APPROVED MASONRY CHIMNEY OR LISTED FACTORY-BUILT PREFABRIC CHIMNEY WITH A DIRECT FLUE CONNECTION INTO THE FIRST CHIMNEY LINER SECTION, CLASS 3 UL C 653 / UL C 540 CHIMNEY LINER MINIMAL REQUIREMENTS. • FOR USE WITH SOLID WOOD FUEL ONLY. • A NON-COMBUSTIBLE HEARTH EXTENSION EXCEEDING 609 MM (19") USA / 457 MM (18") CAN FROM THE DOOR FACE AND OF 203 MM (8") FROM EACH SIDE OF THE DOOR MUST BE INSTALLED. • THE NON-COMBUSTIBLE HEARTH EXTENSION MUST HAVE A MINIMUM R-VALUE OF 2.957. IF THE HEIGHT OF THE HEARTH EXCEEDS 330MM (13"), THE R-VALUE CAN BE NEGOTIABLE. • INSTALL WITH A POSITIVE FLUE CONNECTION PROVIDED WITH THE UNIT. • REAR DOOR TO ONLY WITH PROTECTION CLASS OF 5MM THICK. • DO NOT USE TO COOK OR FOR OTHER PURPOSES. • DO NOT LIFT OR GRADE OR ELEVATED FIRE / IGNITE WOOD DIRECTLY ON HEARTH. • INSTALL AND USE IN ACCORDANCE WITH MANUFACTURER'S MANUALS. • TO BE INSTALLED AS A PRESTANDING ROOM HEATER WITH THE CLEARANCES IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NOT TO BE INSTALLED IN ANY FACTORY-BUILT PREFABRIC. • CONTACT LOCAL BUILDING CODE AND MANUFACTURER'S INSTRUCTIONS FOR PRECAUTIONS REQUIRED FOR PASSING A CHIMNEY THROUGH A COMBUSTIBLE WALL OR CEILING. • DO NOT CONNECT THIS UNIT TO A CHIMNEY SERVING ANOTHER APPLIANCE. • DO NOT OVERFIRE AND ALLOW AT HEATER ON CHIMNEY ADAPTOR. • REAR DOOR TO ONLY WITH PROTECTION CLASS OF 5MM THICK. • CAUTION: MOVING PARTS MAY CAUSE INJURY. DO NOT OPERATE UNIT WITH FACE REMOVED. • CAUTION: HOT PARTS. DO NOT OPERATE UNIT WITH FACE REMOVED. • DANGER: RISK OF ELECTRIC SHOCK. DISCONNECT POWER BEFORE SERVICING UNIT.											
WH-N 002504 supreme 2024 Jan 1, Montreal, QC DATE OF FABRICATION / DATE DE FABRICATION JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT NOV DEC 2023 2024 2025 2026 2027 2028 2029 2030											
• INSTALLER ET UTILISER SEULEMENT DANS UN FOYER DE MACHONNERIE APPRUVÉE OU UN FOYER PRÉFABRIQUÉ AVEC UNE CONNECTION DIRECTE À UNE GÂNE. EXIGENCES MINIMALES POUR GÂNE: UL C 653 / UL C 540 CLASSE 3. • POUR UTILISATION AVEC BOIS SEULEMENT. • UN PROLONGEMENT DE L'ATRE EXCÉDANT 609 MM (19") USA / 457 MM (18") CAN DU DESSUS DE LA PORTE DOIT AVOIR UNE VALEUR R MINIMALE DE 2.957. SI LA HAUTEUR DE LA PORTE DE 203 MM (8") DE CHAQUE CÔTÉ DE LA PORTE DOIT ÊTRE LE PROLONGEMENT DE L'ATRE DOIT AVOIR UNE VALEUR R MINIMALE DE 2.957. SI LA HAUTEUR DU FOYER DÉPASSE 330MM (13"), LA VALEUR R PEUT ÊTRE NÉGOTIABLE. • REMPLACER SEULEMENT AVEC UN VERRRE PYROCEAM 5MM ÉPAISSEUR. • GARDER LA PORTE FERMÉE PENDANT LE FONCTIONNEMENT. • NE PAS SURÉLÈVER LE FEU EN PLACANT UN CHENETON/ALLUMÉ DANS L'APPAREIL. • INSTALLER ET UTILISER CONFORMÉMENT AU MANUEL D'INSTALLATION AU FABRICANT. • NE PAS UTILISER POUR COOKER OU POUR D'autres PROPRIÉTÉS. • LE MANUEL D'INSTALLATION DU FABRICANT NE PAS INSTALLER DANS UN FOYER PRÉFABRIQUÉ. • CONTRACTER LES AUTORITÉS DE VOTRE LOCALITÉ AVANT JURIDICTION CONCERNANT LES RESTRICTIONS ET INSPECTIONS D'INSTALLATION. • VOIR LES CODES LOCAUX ET LE MANUEL D'INSTALLATION DU MANUFACTURIER POUR LE PASSAGE DE LA CHIMNÉE À TRAVERS UN MUR OU UN PLAFOND COMBUSTIBLE. • NE PAS CONNECTER CET APPAREIL À UNE CHIMNÉE DÉSERVANT UN AUTRE APPAREIL. • NE PAS SURCHAUFFER ET LAISSER LA CHIMNÉE ALLUMÉE. • L'ACCUMULATION DE CENDRONS PEUT ÊTRE DANGEREUSE. - DANS CERTAINES CONDITIONS, L'ATTENTION: PIÈCES MOUVANTES PEUVENT CAUSER DES BLESSURES. NE PAS GRIFFER L'UNITÉ AVEC FACADE ENLEVÉE. • ATTENTION: PARTIES CHAUDES. NE PAS OPÉRER L'UNITÉ AVEC LA FACADE ENLEVÉE. • DANGER: RISQUE DE CHOC ÉLECTRIQUE. DÉBRANCHER L'APPAREIL AVANT DE FAIRE L'ENTRETIEN.											