DaVinci
CUSTOM FIREPLACES™

# Category 2 & 3 Owner's Manual

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

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS**
  - **Do not try to light any appliance.**
  - **Do not touch any electrical switch; do not use any phone in your building.**
  - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
  - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**


Tested and Listed by

Tested & Listed By O-T-L Portland Oregon USA
C US
OMNI-Test Laboratories, Inc.

Report # 0028GF103S
ANSI Z21.50-2016
CSA 2.22-2016
Gas-Fired Domestic and Commercial Heating Equipment "Vented Gas Fireplace"

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

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

Travis Industries, Inc. 12521 Harbour Reach Dr., Mukilteo, WA 98275 www.travisproducts.com

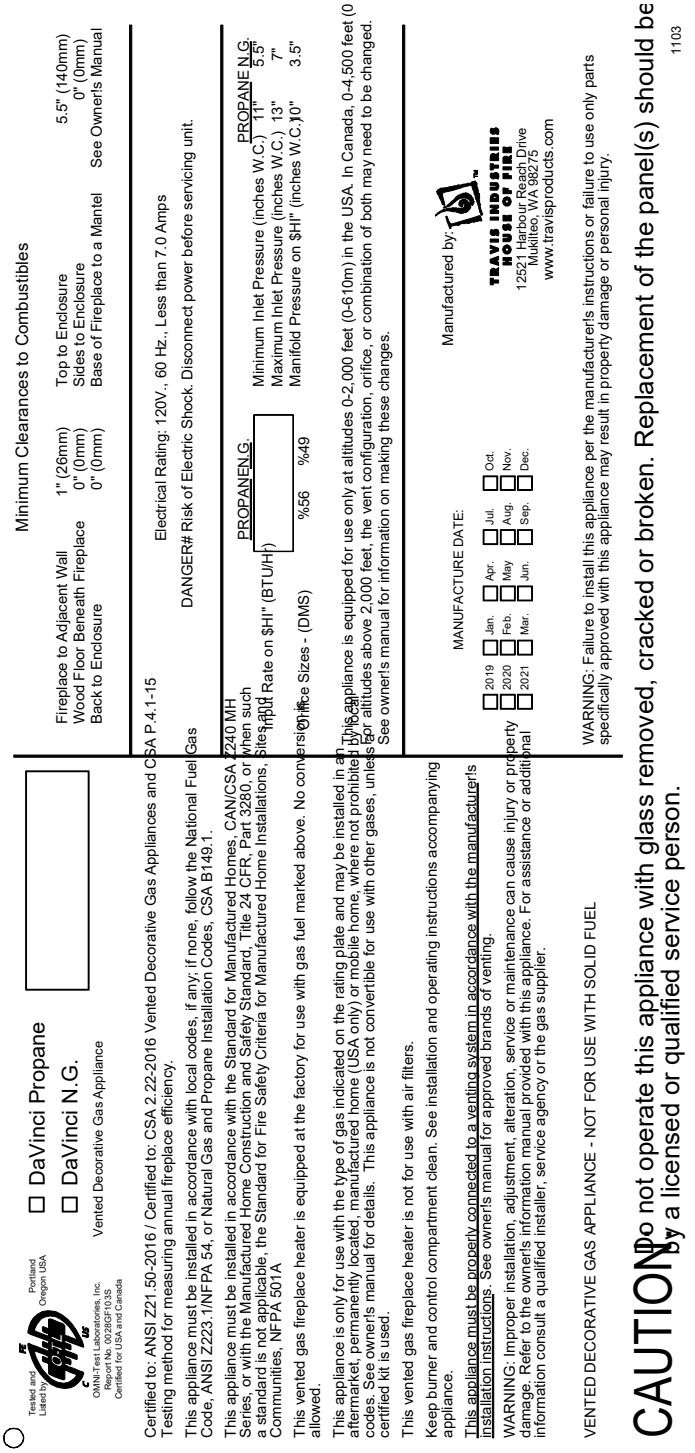
$10.00 3/3/21 100-01418

## *Overview*

This manual details the DaVinci category 2 fireplace.

## *Listing Details*

This appliance was listed by Omni-Test Laboratories, Inc. to ANSI Z21.50-2016 / CSA 2.22-2016. The listing label is chained to the appliance near the glass frame. A copy is shown to the right.




## Massachusetts Approval

This manual has been submitted to the Massachusetts Board of State Examiners of Plumbers and Gas Fitters

## National Fireplace Institute

NATIONAL FIREPLACE INSTITUTE® NFI CERTIFIED www.nficertified.org

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

## Dealer Information

Please record your dealer information here for future reference:

Dealer Name: _____

Dealer Address: _____

Dealer E-Mail: _____

Dealer Phone #: _____

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# 4 Safety Precautions

## *Safety Warnings:*

- Failure to follow all of the requirements may result in property damage, bodily injury, or even death.

**Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces.**

**Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Do not touch the hot surfaces of the heater. Educate all children of the danger of a high-temperature heater.**

**Due to the high temperature, the heater should be located out of traffic and away from furniture and draperies.**

- This unit must be installed by a qualified installer to prevent the possibility of an explosion.
- This appliance must be installed in accordance with all local codes, if any; if not, in U.S.A. follow ANSI Z223.1 and NFPA 54(88), in Canada follow CSA B149.1. In Australia follow AS/NZS 5601.1.
- A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4. This appliance may be installed in Manufactured Housing only after the home is site located.
- All exhaust gases must be vented outside the structure of the living-area. Combustion air is drawn from outside the living-area structure. The venting must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- Notify your insurance company before hooking up this fireplace.
- The instructions in this manual must be strictly adhered to. Do not use makeshift methods or compromise in the installation. Improper installation will void the warranty and safety listing.
- This heater is approved for use with natural gas (NG) or propane (LP). Burning the incorrect fuel will void the warranty and safety listing and may cause an extreme safety hazard. Direct questions about the type of fuel used to your dealer.
- Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area.
- If the flame becomes sooty, dark orange in color, or extremely tall, do not operate the heater. Call your dealer and arrange for proper servicing.
- It is imperative that control compartments, screens, or circulating air passageways of the heater be kept clean and free of obstructions. These areas provide the air necessary for safe operation.
- Do not operate the heater if it is not operating properly in any fashion or if you are uncertain. Call your dealer for a full explanation of your heater and what to expect.
- Do not store or use gasoline or other flammable liquids in the vicinity of this heater.
- Do not operate if any portion of the heater was submerged in water or if any corrosion occurs. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## *Safety Warnings (continued)*

- Light the heater using the built-in igniter. Do not use matches or any other external device to light your heater.
- Never remove, replace, modify or substitute any part of the heater unless instructions are given in this manual. All other work must be done by a trained technician. Don't modify or replace orifices.
- The viewing glass should be opened only for conducting service.
- Allow the heater to cool before carrying out any maintenance or cleaning.
- Operate the heater according to the instructions included in this manual.
- If the main burners do not start correctly turn the gas off and call your dealer for service.
- This unit is not for use with solid fuel.
- Do not place anything inside the firebox (except the optional artwork).
- **Warning:** Do not operate appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.
- Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.
- Instruct everyone in the house how to shut gas off to the appliance and at the gas main shutoff valve. The gas main shutoff valve is usually next to the gas meter or propane tank and requires a wrench to shut off.
- Clothing or other flammable material should not be placed on or near the appliance.
- Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.
- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.
- **Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility of any consequential damage(s).**

**Proposition 65 Warning**: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

California Health & Safety Code Sec. 25249.6

Vented decorative gas appliance: not a source of heat; not for use with solid fuel.

# 6 Features and Specifications

## Installation Options

- Residential or Commercial Installations
- Raised or Floor Placement
- Internal or External Chase
- Horizontal or Vertical Vent
- Bedroom Approved

**Important Notes Regarding Installation Approvals**

We strongly suggest consulting with the local building official on all aspects of this fireplace (including the intake and exhaust configuration) prior to installation. Each locality and installation type (residential, commercial, etc…) may have specific installation requirements that are not covered in this manual (e.g. Int. Fuel Gas Code, section 503, etc.).

## BTU Specifications

| | Natural Gas | Propane |
|---|---|---|
| 6' Burner – BTU Input Per Hour | 87,000 | 87,000 |
| 7' Burner – BTU Input Per Hour | 101,500 | 101,500 |
| 8' Burner – BTU Input Per Hour | 116,000 | 116,000 |
| 9' Burner – BTU Input Per Hour | 130,500 | 130,500 |
| 10' Burner – BTU Input Per Hour | 145,000 | 145,000 |
| 11' Burner – BTU Input Per Hour | 159,500 | 159,500 |
| 12' Burner – BTU Input Per Hour | 174,000 | 174,000 |
| 13' Burner – BTU Input Per Hour | 188,500 | 188,500 |
| 14' Burner – BTU Input Per Hour | 203,000 | 203,000 |
| 15' Burner – BTU Input Per Hour | 217,500 | 217,500 |

## Fireplace Modules

Category 2 DaVinci Custom Fireplaces™ are usually shipped in two pieces (called "modules")*. Category 3 fireplaces are shipped in three pieces. Each fireplace has one master module and one or two secondary modules. For odd length category 2 fireplaces (e.g. 7' or 9' burner), the master module will be the longer module. For example, a 7' burner fireplace will have a master module that is 4' long and a secondary module that is 3' long. For category 3 fireplaces, the fireplace is configured at the time of order.

* NOTE: Some smaller category 2 fireplaces may be shipped pre-assembled. For these fireplaces, the installer may disregard the instructions for joining the modules.

### Master Module vs. Secondary Module

When ordering a Category 2 or 3 DaVinci Custom Fireplace™ you will need to specify whether the master module is on the left or right (the master module is always on one side – it is not in the center for category 3 fireplaces). . **When ordering the fireplace it is critical you specify which side the master module is located and communicate this with all involved with the installation. The orientation of the master module affects several installation parameters.** The secondary module(s) connect to the master module with a flexible gas line, electrical jumper, and LED connections.

### Gas and Electrical Hookup

The master module has the gas inlet and electrical connections.

### Air Intakes

Both the master and secondary modules have air intakes. Air intake location and quantity vary depending upon fireplace length (see "Air Intake Duct Location" on page 69 for details).

### Power Vent

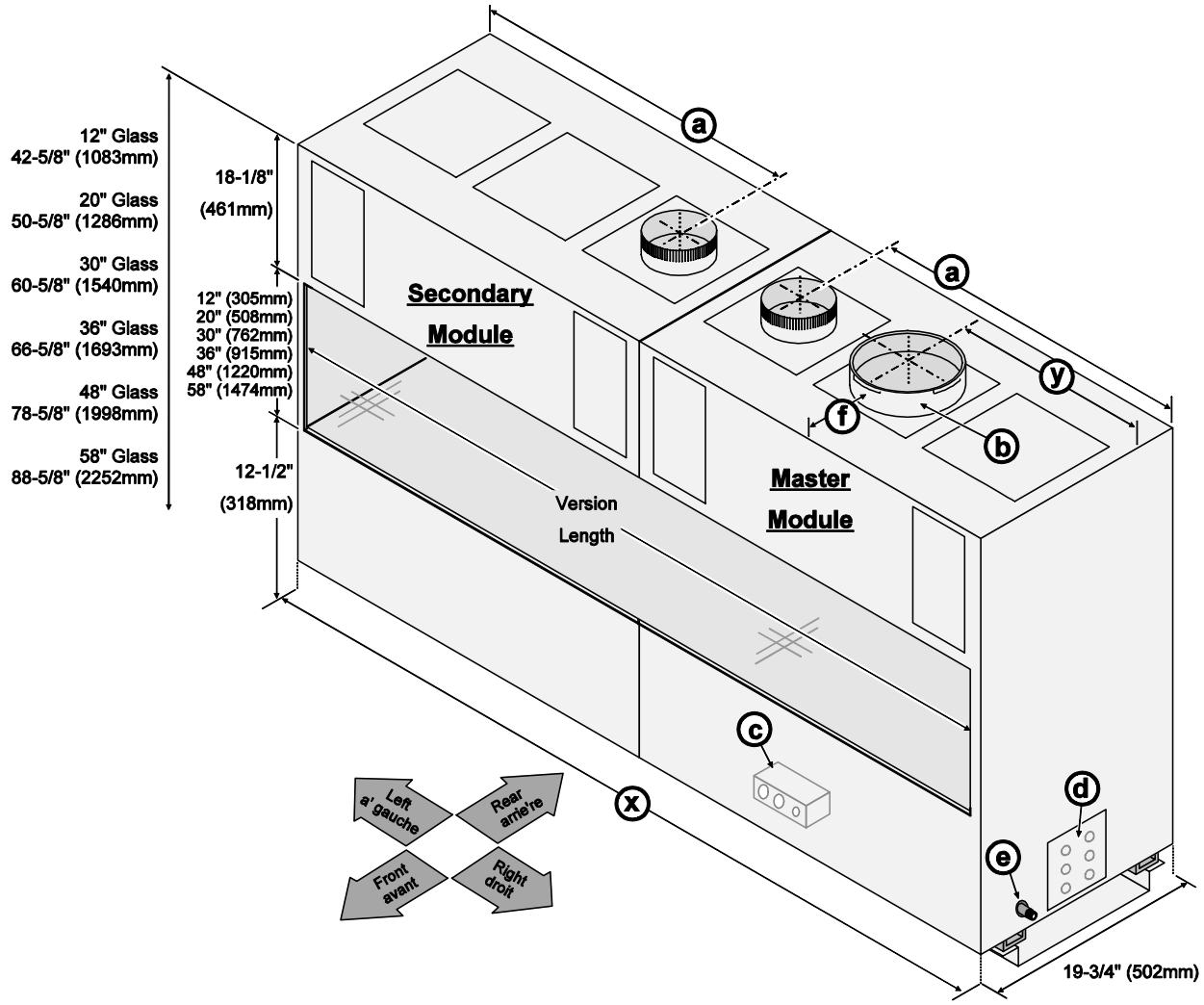
**Category 2**: Category 2 fireplaces use one power vent. It is centered on the master module (the vent is not centered on the fireplace, it is centered on the module – see the "Dimensions" on the following pages for details). If it is 7' to 10' long, you will need to use the high-volume power vent. For shorter fireplaces, use the low-volume power vent. .

**Category 3**: Category 3 fireplaces have 1 or 2 power vents (this is determined at the time of order). The primary vent is located on the center module (centered on the fireplace).

## Decimal Conversions

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.125" | 0.25" | 0.375" | 0.5" | 0.625" | 0.75" | 0.875" |
| 1/8" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |

## *Category 2 Dimensions – Single Sided or See Through Configurations*




(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

**NOTE**: When using a 2-sided fireplace, the front is determined by the gas control valve (it is to the front).

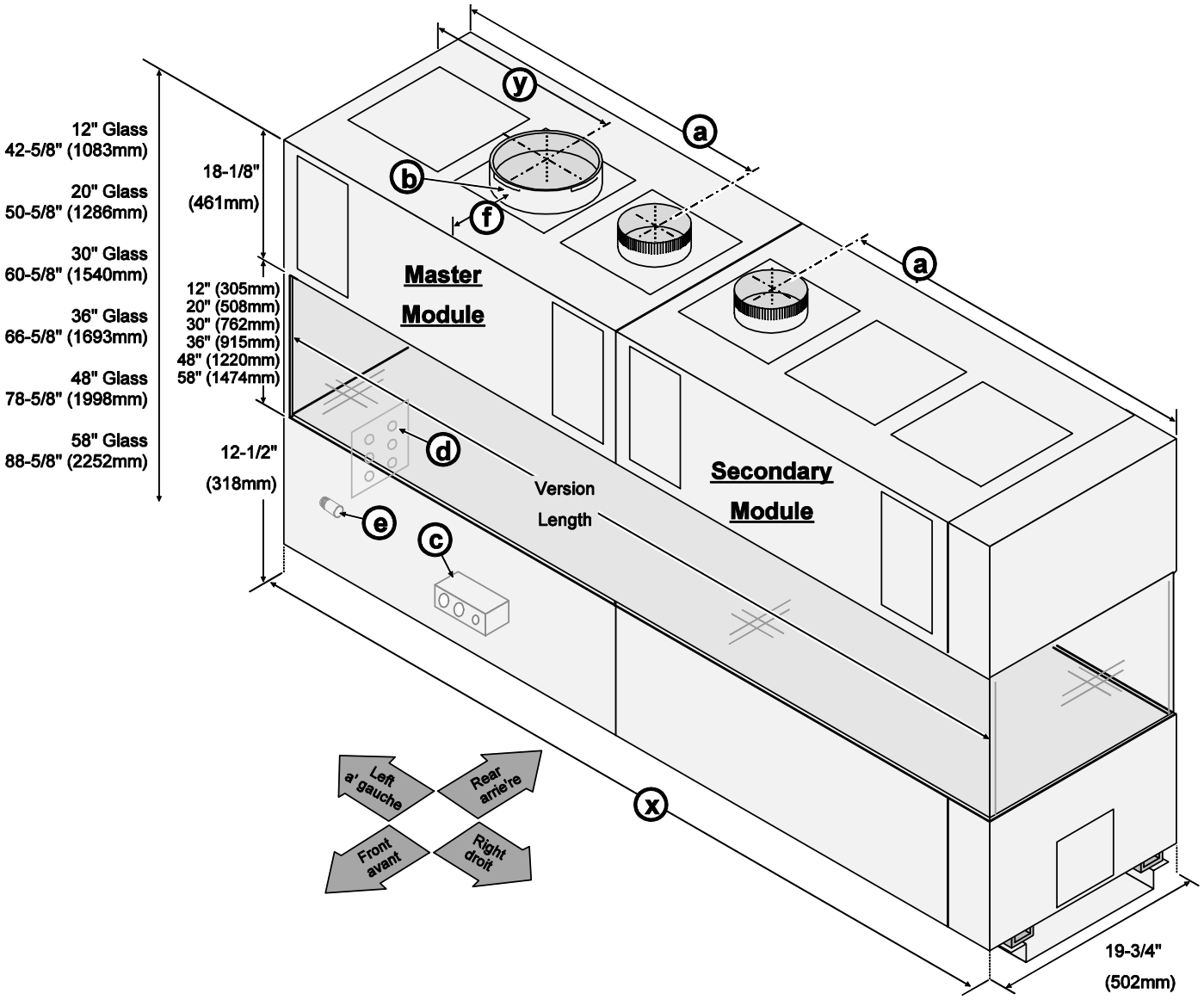
**Important Notes Regarding Framing**

We strongly suggest framing around the fireplace after it is in place. If you do frame before fireplace placement, add 6" to each side (12" total) to allow for fireplace assembly.

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 72" 1 Sided / See Through | 74" (1880mm) | 19" (483mm) | 2 | Low Volume | 87,000 | 1100 lbs. 490Kg |
| 84" 1 Sided / See Through | 86" (2185mm) | 25" (635mm) | 3 | High Volume | 101,500 | 1200 lbs. 534 Kg |
| 96" 1 Sided / See Through | 98" (2490mm) | 25" (635mm) | 3 | High Volume | 116,000 | 1350 lbs. 601 Kg |
| 108" 1 Sided / See Through | 110" (2794mm) | 31" (788mm) | 4 | High Volume | 130,500 | 1800 lbs. 802 Kg |
| 120" 1 Sided / See Through | 122" (3099mm) | 31" (788mm) | 4 | High Volume | 145,000 | 2000 lbs. 891 Kg |

## *Category 2 Dimensions – Pier Configuration*



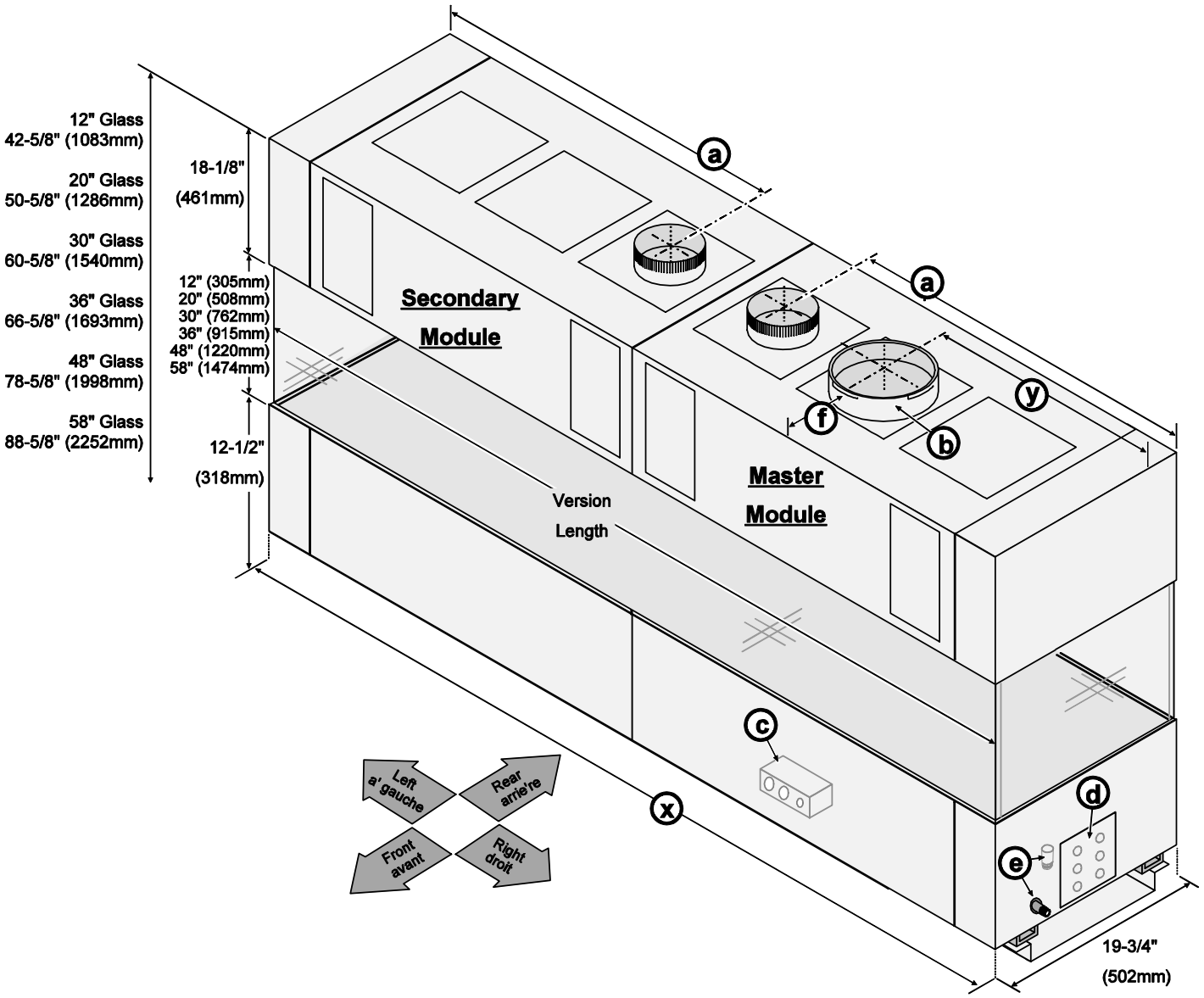

**NOTE**: The master module is always on the end that has a steel end.

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 78" Pier | 79" (2007mm) | 19" (483mm) | 2 | Low Volume | 87,000 | 1100 lbs. 490Kg |
| 90" Pier | 91" (2312mm) | 25" (635mm) | 3 | High Volume | 101,500 | 1200 lbs. 534 Kg |
| 102" Pier | 103" (2617mm) | 25" (635mm) | 3 | High Volume | 116,000 | 1350 lbs. 601 Kg |
| 114" Pier | 115" (2921mm) | 31" (788mm) | 4 | High Volume | 130,500 | 1800 lbs. 802 Kg |
| 126" Pier | 127" (3226mm) | 31" (788mm) | 4 | High Volume | 145,000 | 2000 lbs. 891 Kg |

## *Category 2 Dimensions – Island Configuration*

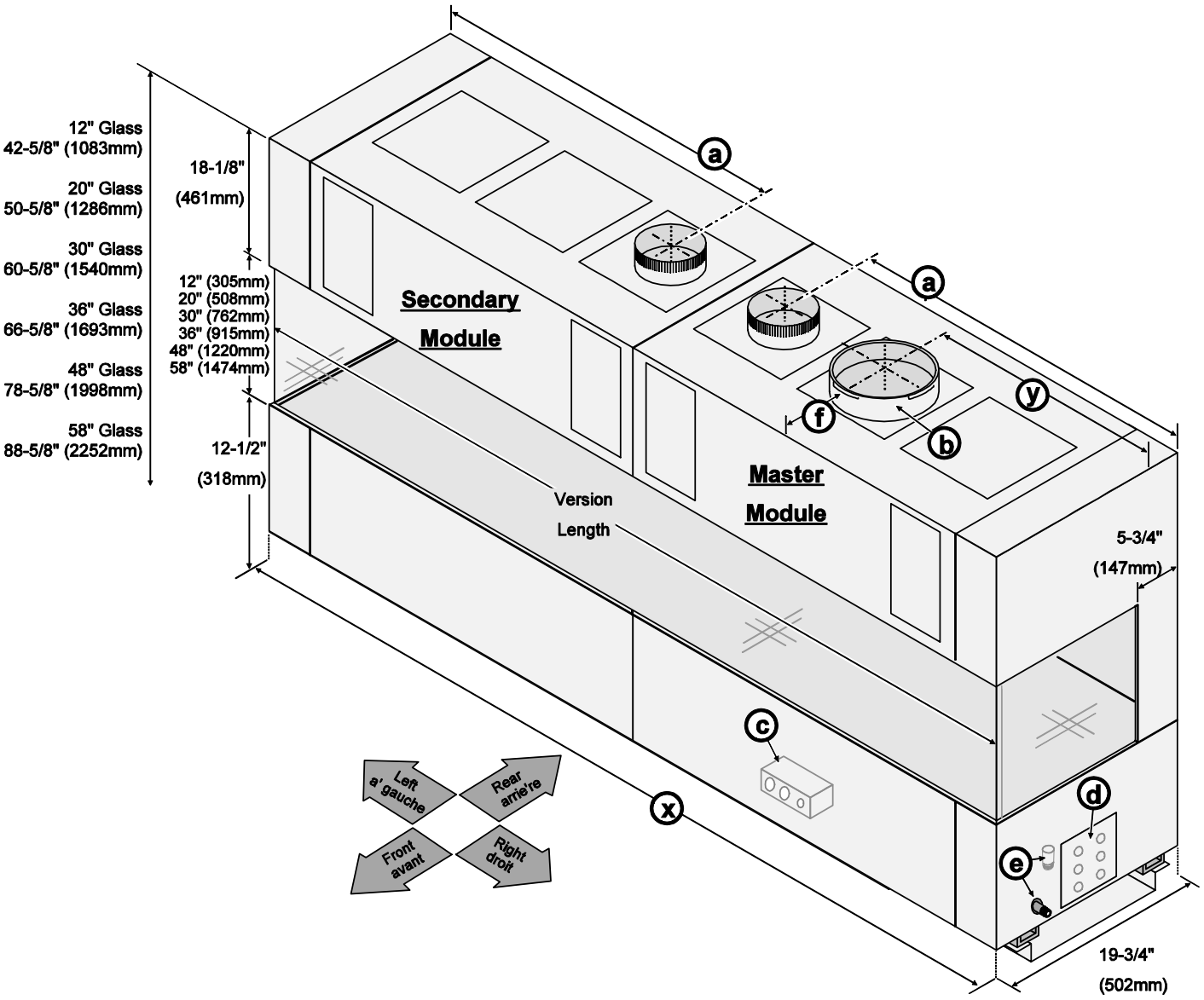



(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 84" Island | 84" (2134mm) | 24" (610mm) | 2 | Low Volume | 87,000 | 1100 lbs. 490Kg |
| 96" Island | 96" (2439mm) | 30" (762mm) | 3 | High Volume | 101,500 | 1200 lbs. 534 Kg |
| 108" Island | 108" (2744mm) | 30" (762mm) | 3 | High Volume | 116,000 | 1350 lbs. 601 Kg |
| 120" Island | 120" (3048mm) | 36" (915mm) | 4 | High Volume | 130,500 | 1800 lbs. 802 Kg |
| 132" Island | 132" (3353mm) | 36" (915mm) | 4 | High Volume | 145,000 | 2000 lbs. 891 Kg |

## *Category 2 Dimensions – Full Bay Configuration*

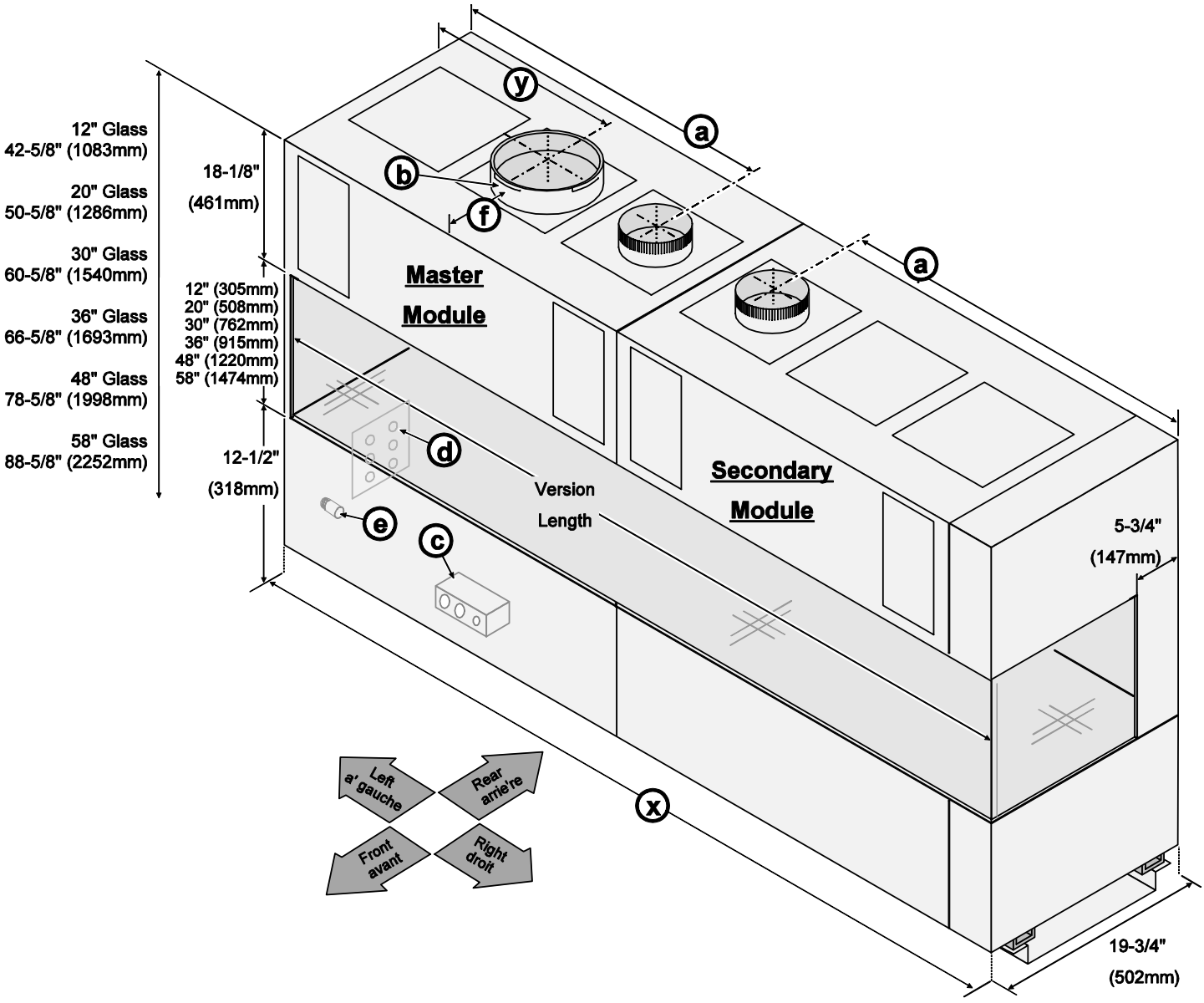



(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 84" Full Bay | 84" (2134mm) | 24" (610mm) | 2 | Low Volume | 87,000 | 1100 lbs. 490Kg |
| 96" Full Bay | 96" (2439mm) | 30" (762mm) | 3 | High Volume | 101,500 | 1200 lbs. 534 Kg |
| 108" Full Bay | 108" (2744mm) | 30" (762mm) | 3 | High Volume | 116,000 | 1350 lbs. 601 Kg |
| 120" Full Bay | 120" (3048mm) | 36" (915mm) | 4 | High Volume | 130,500 | 1800 lbs. 802 Kg |
| 132" Full Bay | 132" (3353mm) | 36" (915mm) | 4 | High Volume | 145,000 | 2000 lbs. 891 Kg |

## *Category 2 Dimensions – Right Side Corner Configuration*



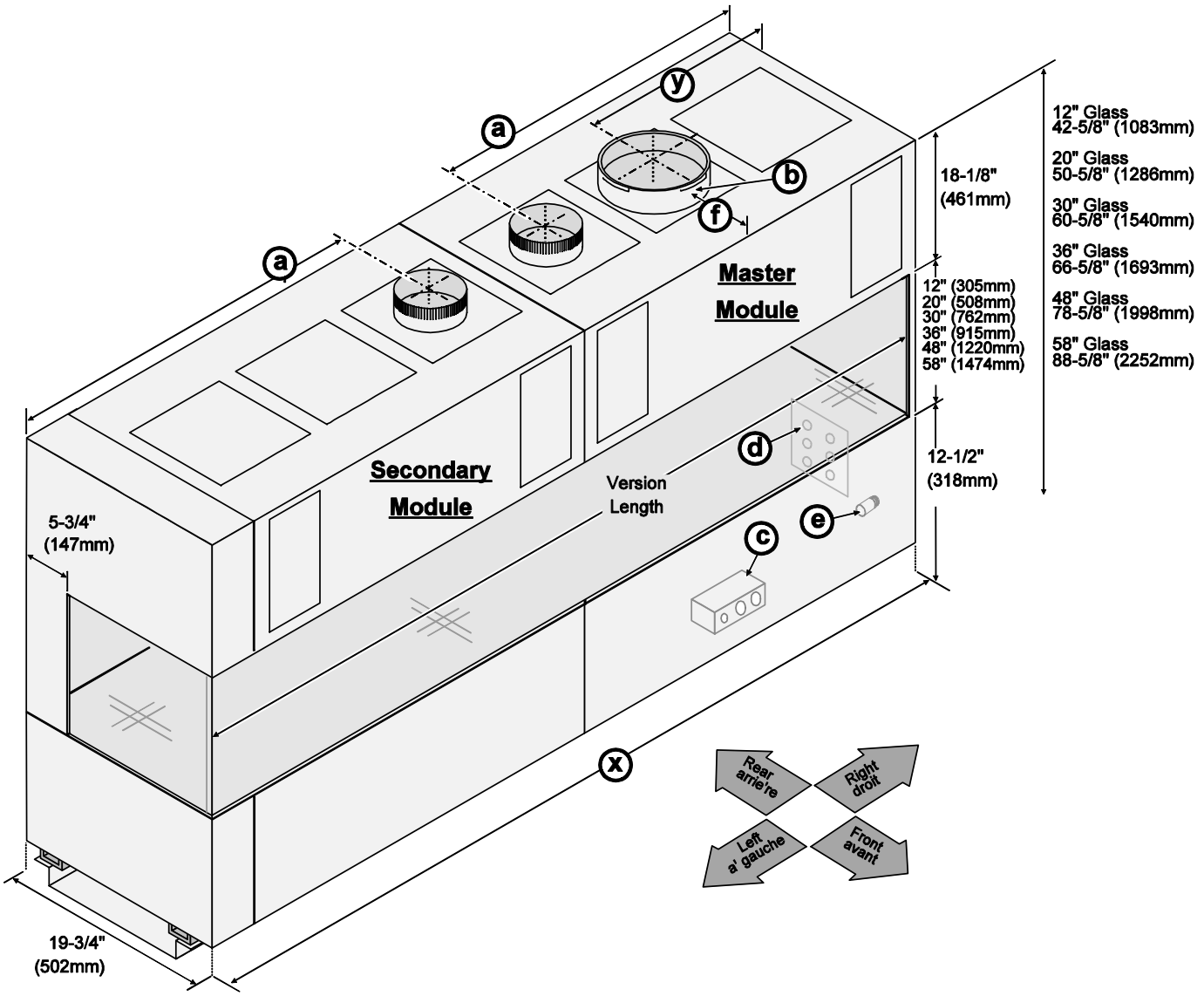

**NOTE**: The master module is always on the end that has a steel end.

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 78" Right Side | 79" (2007mm) | 19" (483mm) | 2 | Low Volume | 87,000 | 1100 lbs. 490Kg |
| 90" Right Side | 91" (2312mm) | 25" (635mm) | 3 | High Volume | 101,500 | 1200 lbs. 534 Kg |
| 102" Right Side | 103" (2617mm) | 25" (635mm) | 3 | High Volume | 116,000 | 1350 lbs. 601 Kg |
| 114" Right Side | 115" (2921mm) | 31" (788mm) | 4 | High Volume | 130,500 | 1800 lbs. 802 Kg |
| 126" Right Side | 127" (3226mm) | 31" (788mm) | 4 | High Volume | 145,000 | 2000 lbs. 891 Kg |

## *Category 2 Dimensions – Left Side Corner Configuration*



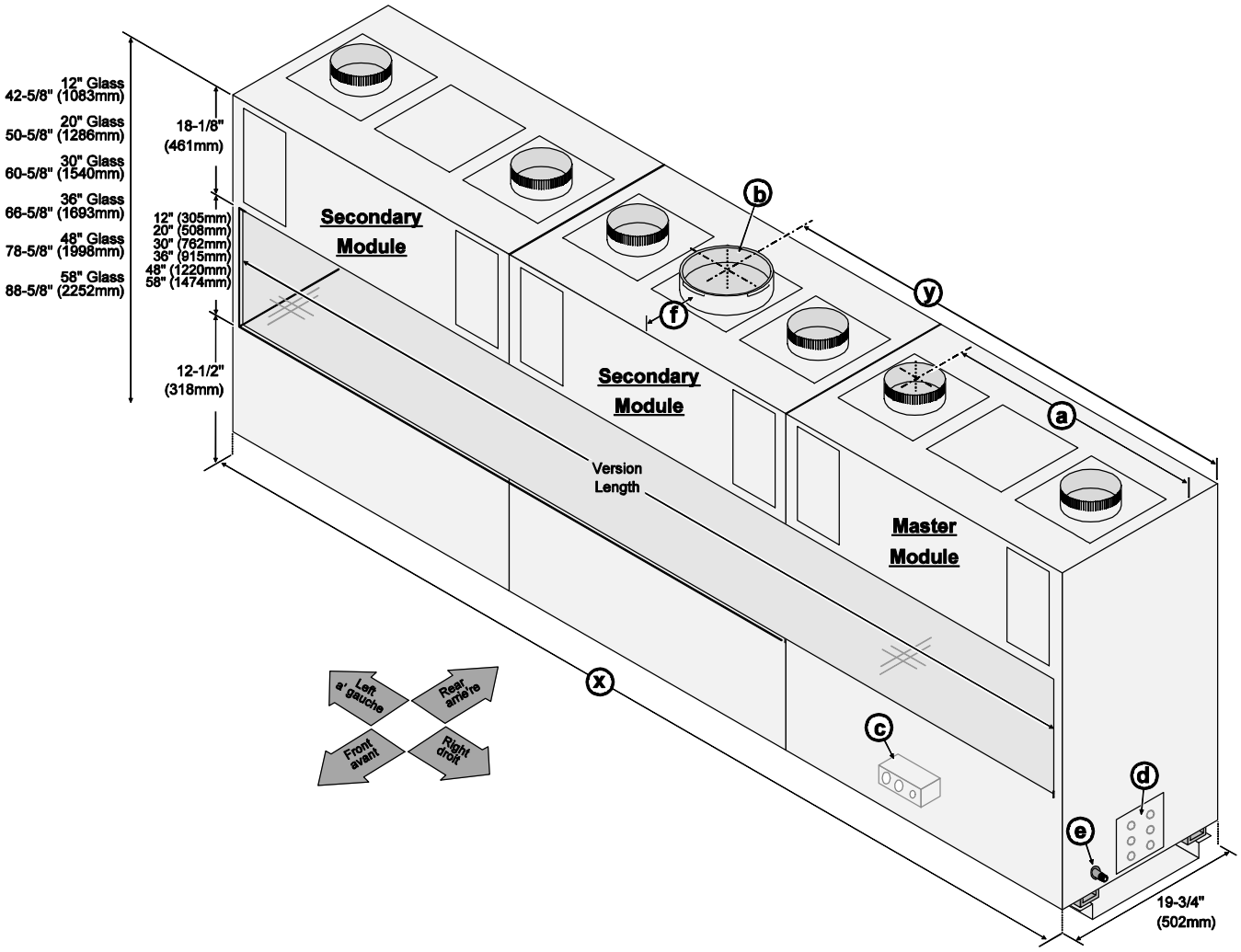

**NOTE**: The master module is always on the end that has a steel end.

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 78" Left Side | 79" (2007mm) | 19" (483mm) | 2 | Low Volume | 159,500 | 1100 lbs. 490Kg |
| 90" Left Side | 91" (2312mm) | 25" (635mm) | 3 | High Volume | 174,000 | 1200 lbs. 534 Kg |
| 102" Left Side | 103" (2617mm) | 25" (635mm) | 3 | High Volume | 188,500 | 1350 lbs. 601 Kg |
| 114" Left Side | 115" (2921mm) | 31" (788mm) | 4 | High Volume | 203,000 | 1800 lbs. 802 Kg |
| 126" Left Side | 127" (3226mm) | 31" (788mm) | 4 | High Volume | 217,500 | 2000 lbs. 891 Kg |

## *Category 3 Dimensions – Single Sided or See Through Configurations*

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(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
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**NOTE**: When using a 2-sided fireplace, the front is determined by the gas control valve (it is to the front).

**Important Notes Regarding Framing**

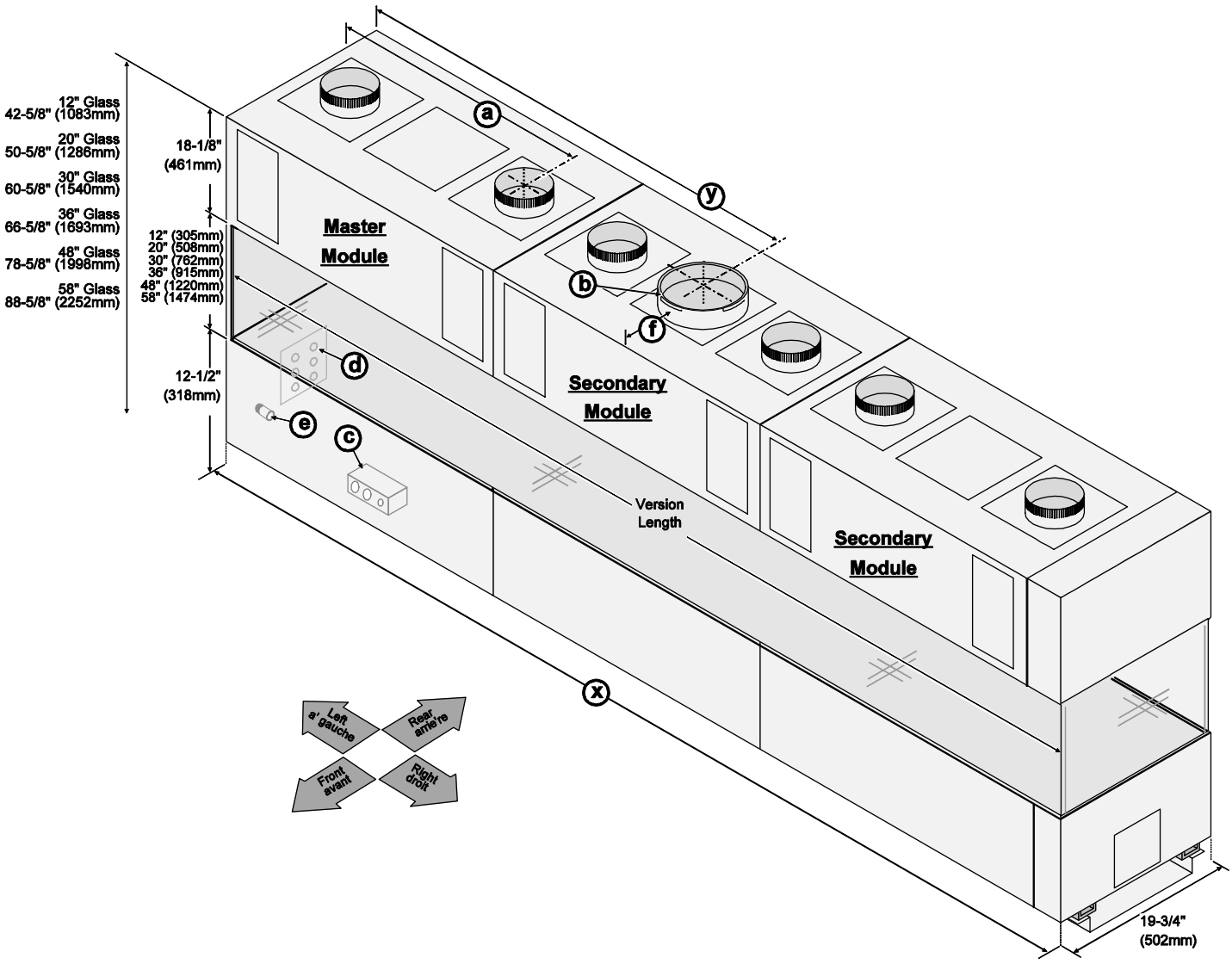
We strongly suggest framing around the fireplace after it is in place. If you do frame before fireplace placement, add 6" to each side (12" total) to allow for fireplace assembly.

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 132" 1 Sided / See Through | 134" (3404mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 144" 1 Sided / See Through | 146" (3709mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 156" 1 Sided / See Through | 158" (4014mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 168" 1 Sided / See Through | 170" (4318mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 180" 1 Sided / See Through | 182" (4623mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Category 3 Dimensions – Pier Configuration*

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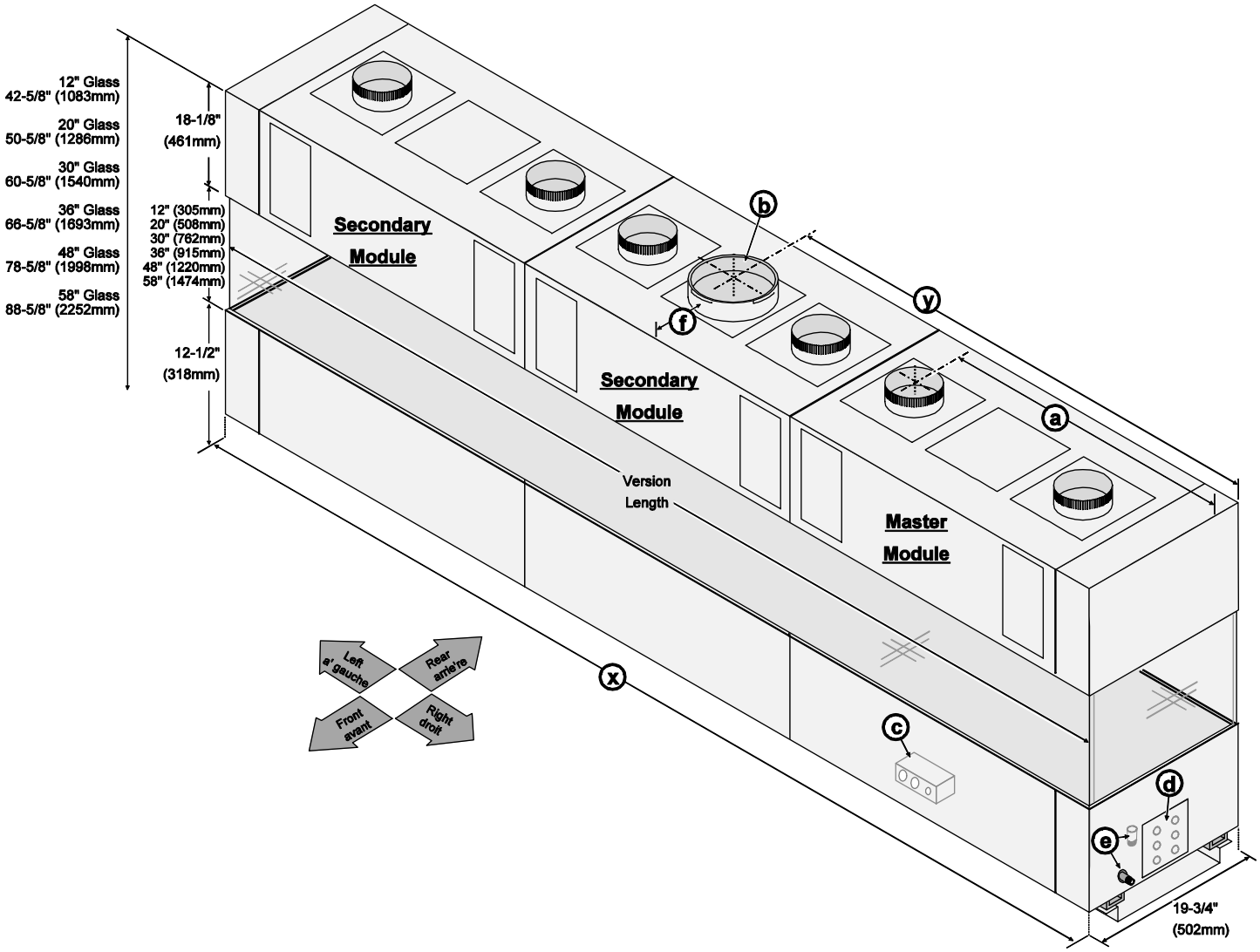
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 138" Pier | 139" (3531mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 150" Pier | 151" (3836mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 162" Pier | 163" (4141mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 174" Pier | 175" (4445mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 186" Pier | 187" (4750mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Category 3 Dimensions – Island Configuration*



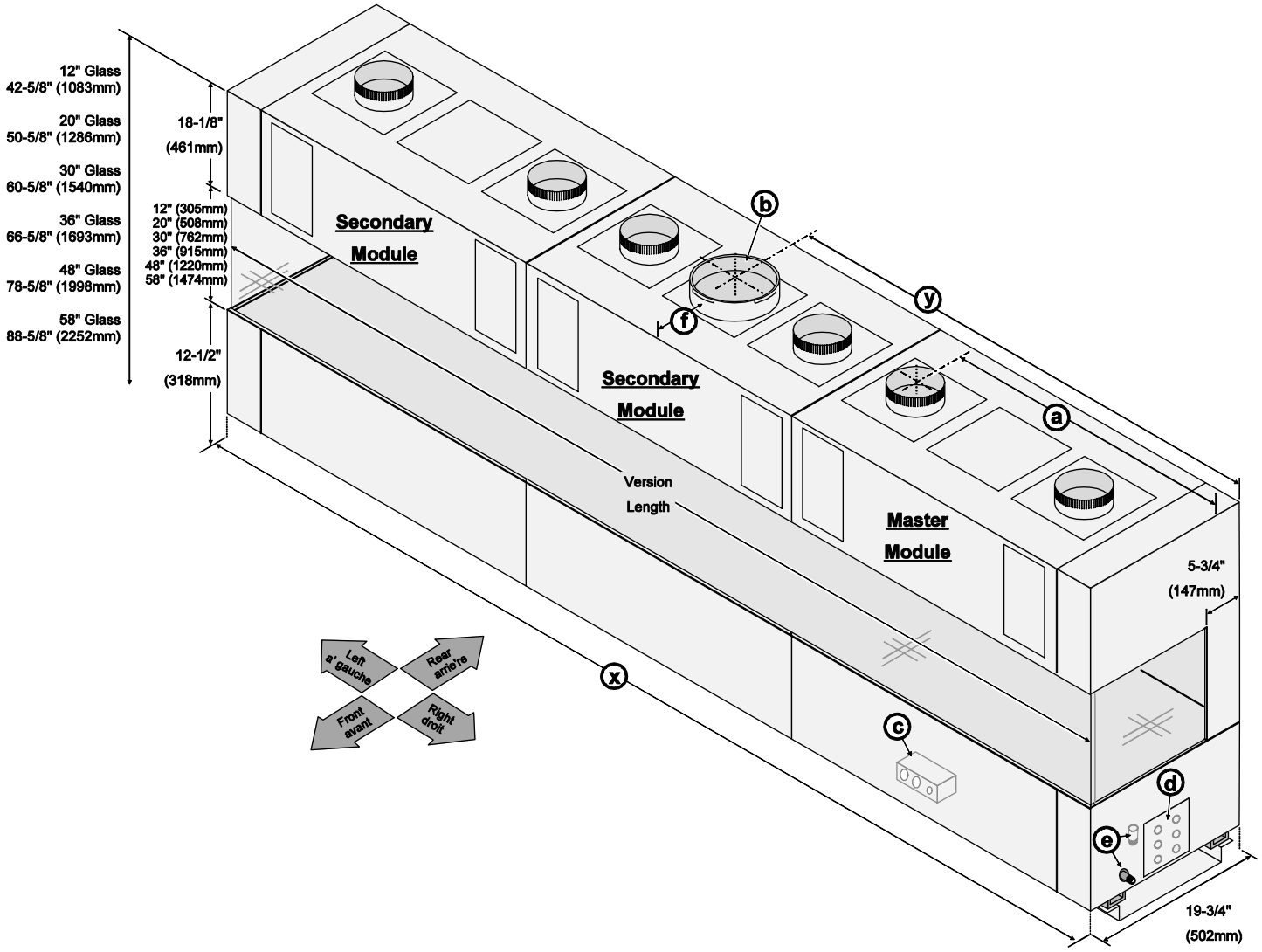

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 144" Island | 144" (3658mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 156" Island | 156" (3963mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 168" Island | 168" (4268mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 180" Island | 180" (4572mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 192" Island | 192" (4877mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Category 3 Dimensions – Full Bay Configuration*



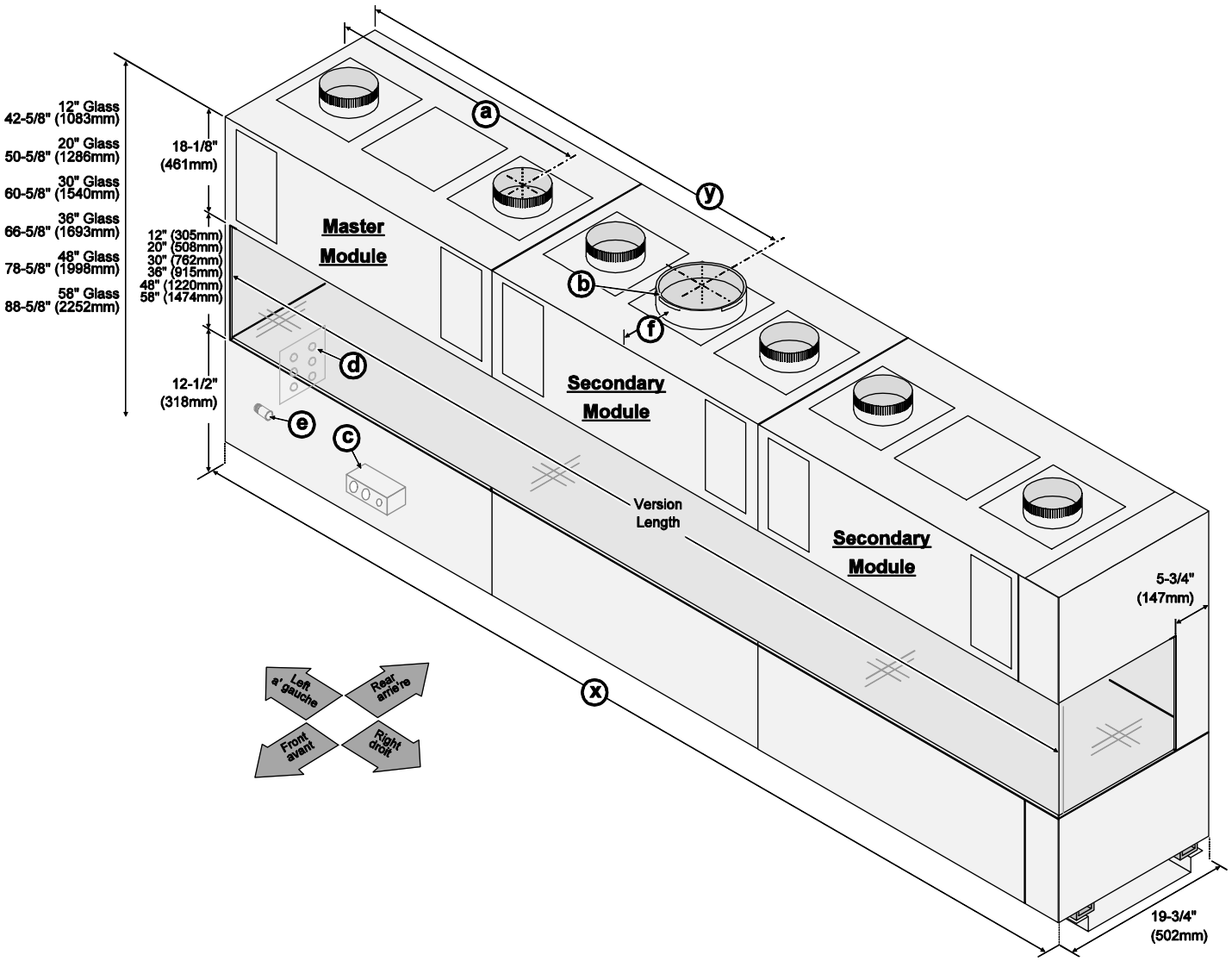

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 144" Full Bay | 144" (3658mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 156" Full Bay | 156" (3963mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 168" Full Bay | 168" (4268mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 180" Full Bay | 180" (4572mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 192" Full Bay | 192" (4877mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Category 3 Dimensions – Right Side Corner Configuration*




**NOTE**: The master module is always on the end that has a steel end.

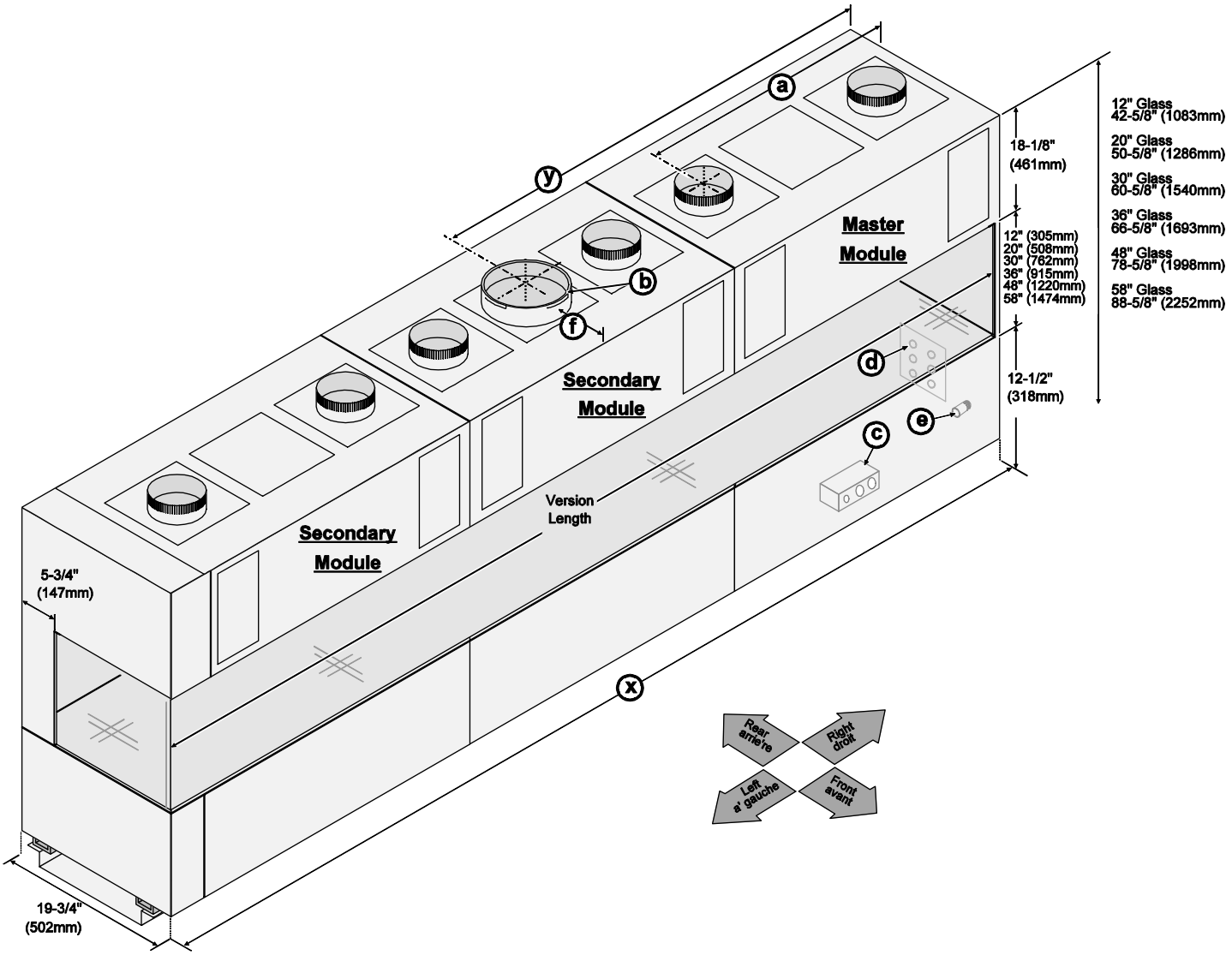
(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 138" Right Side | 139" (3531mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 150" Right Side | 151" (3836mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 162" Right Side | 163" (4141mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 174" Right Side | 175" (4445mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 186" Right Side | 187" (4750mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Category 3 Dimensions – Left Side Corner Configuration*




**NOTE**: The master module is always on the end that has a steel end.

(a) **Air intake** – See table below for quantity - Location determined by fireplace length (see "Air Intake Duct Location" on page 69).
(b) **Vent Collar** – Uses 10" or 8" Diameter B-Vent (determined by power vent type). Centered on module.
(c) **Gas Control Valve** – Located to the front of the master module (front of fireplace is determined by gas control valve location).
(d) **Electrical Junction Box** – On master module (location determined at time of order – can be relocated), includes 120v input, exhaust vent power/harness, on-off LED harness.
(e) **Gas Inlet** – On master module (NOTE: gas inlet is always located along the front edge, even if master module is to the left).
(f) **Vent Collar Distance to Front/Back** – Approx. 4-3/8" (112mm) for 10" B-Vent, 5-3/8" (137mm) for 8" B-Vent

### Horizontal Dimensions & Specifications

| Version | Width (x) | Vent Loc. (y) | Air Intakes | Power Vent | BTUs | Min. Weight |
|---|---|---|---|---|---|---|
| 138" Left Side | 139" (3531mm) | * | 6 | * | 159,500 | 2150 lbs. 958Kg |
| 150" Left Side | 151" (3836mm) | * | 6 | * | 174,000 | 2300 lbs. 1024Kg |
| 162" Left Side | 163" (4141mm) | * | 6 | * | 188,500 | 2450 lbs. 1091Kg |
| 174" Left Side | 175" (4445mm) | * | 6 | * | 203,000 | 2600 lbs. 1158Kg |
| 186" Left Side | 187" (4750mm) | * | 6 | * | 217,500 | 2750 lbs. 1225Kg |

* Primary vent is centered on the fireplace. Power vent configuration is determined at the time of order.

## *Packing List for Fireplace Modules*

### Included Hardware (for Set & Vent)

| ITEM | Qty | Location | Notes |
|---|---|---|---|
| Manual | 1 | You're looking at it baby! | |
| CAT5 cable | 1 | Hardware Box | 25ft, 50ft or 100ft Length |
| TouchSmart Mounting Plate | 1 | Hardware Box | |
| Mounting Plate Box – New Construction | 1 | Hardware Box | |
| Mounting Plate Backplate - Retrofit | 1 | Hardware Box | |
| TouchSmart controller | 1 | Hardware Box | |
| TouchSmart Hardware pk. | 1 | Hardware Box | - (6) Lock Ties (for wiring)<br>- (3) Round magnets w/ felt pads<br>- (2) #8 Self-Drilling Screws<br>- (2) 8-32 x 1.5" Screws (for Mtg Plate) |
| Exhaust Blower Assembly (B) | 1 | On its own pallet | Low Volume 94400903 (B)<br>High Volume 94400904 (B) |

### Additional Equipment Required (for Set & Vent)

| ITEM | REQUIRED | WHERE SHIPPED | SKU |
|---|---|---|---|
| Suction Cups For Glass | Yes | Ordered separately | 94400914 (includes 2 suction cups) |
| Fireback Liners (see "Firebacks" on page 88 for qty.) | Yes | In its own box | Gloss Black Enamel<br>Silver Painted<br>Matte Black Painted |
| Exhaust Damper Wiring Harness | Yes | Hardware Box | 50 Foot 94700887<br>150 Foot 94700888<br>250 Foot 94700889 |
| 10" B-Vent | Yes | In its own box(s) | 36" Section 98900060<br>18" Section 98900061<br>90° Elbow 98900062<br>45° Elbow 98900063<br>12" Adjustable Section 98900064<br>Wall Strap 98900065<br>Fire Stop 98900066 |
| Recommended Intake Damper(s) | (A) | Hardware Box | Hori w Term 6" (98900093)<br>Hori w Term 8" (98900094)<br>Inline Dmpr 6" (98900078)<br>Inline Dmpr 8" (98900079) |
| Air Intakes (6" or 8" Dia.) | (A) | | |
| Intake Wiring Harness | (A) | Hardware Box | 25' Length (Black and White Wire) |

(A) Refer to the dimensions page of your fireplace to determine the number of intakes required.
(B) Refer to the dimensions page of your fireplace to determine the type of power vent required.

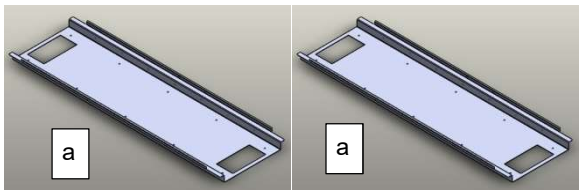
### Finalization Hardware (install after fireplace is in place – you may hold at dealership)

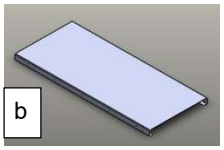
| ITEM | Location | Notes |
|---|---|---|
| Crushed Glass | Hardware Box | Center Channel uses 1.5 Lbs. (cups) per foot<br>Outer Channel uses 1 Lbs. (cups) per foot |
| Glass Panes | On its own crate/pallet | 84" or greater = pallet is separate |

## *Joining Components*

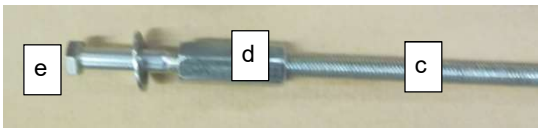
### Alignment Track Components

(a) Base Plates (matches length & number of modules)
(b) Base Connector (1 for category 2, 2 for category 3)
#8 Screws (Qty = 32 for category 2, 52 for category 3)
8 for attaching base plates to base connector, the remainder for attaching fireplace to the alignment track)



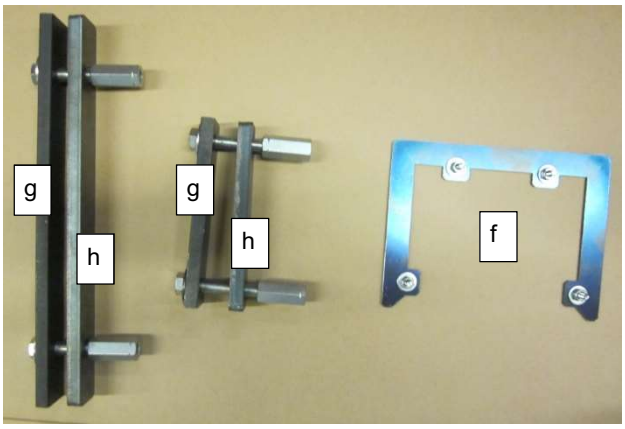




### Tension Rod Components
**(See-through, island and pier fireplaces use two rod assemblies. Single-sided, side, and bay fireplaces use one rod assembly).**



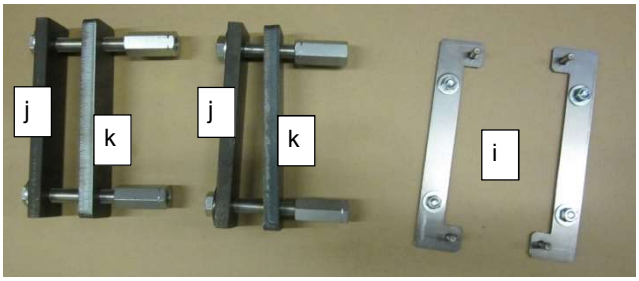

<u>Each Tension Rod Uses:</u>
Threaded Rod Assembly (c) (d) (e)
- Shipped pre-installed on the fireplace)
- Includes rods (c), coupler nuts (d), washer & bolt (e)

3/8-20 Coupler Nut (d) – used to join adjoining modules is shipped in installation pack




### Titan Lock Components

UPPER FIREPLACE COMPONENTS
(1) Upper Center “U” Brace (f)
(4) 1/4-20 Nuts
(4) Washers
(2) Upper Outer Braces (threaded) 14”/6-3/4” Long* (g)
(2) Upper Outer Braces (smooth) 14”/6-3/4” Long* (h)
(4) 1/2-20 x 3-1/2” Bolts
(4) 1/2-20 Coupler Nuts




LOWER FIREPLACE COMPONENTS
(2) LOWER Center “U” Braces (i)
(4)1/4-20 Nuts
(4) Washers
(2) Lower Outer Braces (threaded) – 6-3/4” Long (j)
(2) Lower Outer Braces (smooth) – 6-3/4” Long (k)
(4) 1/2-20 x 3-1/2” Bolts
(4) 1/2-20 Nuts

* The upper outer braces vary for the type of fireplace. For See-Through, Island and Pier fireplaces, the braces are identical (all are 14” Long). For Single-Sided, Side, and Bay fireplaces, the two front braces are 14” long and the two back braces are 6-3/4”.

## *Recommended Specialty Tools*

- Suction Cups (94400914)
- Torque Wrench
- Ratchet Set
- Air Compressor with Air Ratchet (for Titan Locks)
- Large Level (or Laser Level)

## *Recommended Installation Procedure*

### Important Notes Regarding Framing

**We strongly suggest framing around the fireplace after it is in place.** Because this fireplace is assembled on-site, you will need to make accommodations with the framing to allow for assembly. For one-sided, see-through, bay, or side configurations,you may wish to leave one or both sides of the framing open to allow for fireplace placement, assembly, and hookup. If framing the opening prior to fireplace placement, you will also need to make the framing 6" (150mm) wider on each framed side (12" / 300mm wider for singled sided/see through configurations). This 6" gap allows for fireplace assembly and will be covered with drywall (or other material) after the fireplace is assembled.

The header above the fireplace is best installed after the fireplace is in position, assembled, and the vent attached. The fireplace must be lifted onto the alignment track, so additional space above the fireplace is requried for lifting and placement.

### Category 2 Order of Install

1. Prepare the installation location. If placing the fireplace on a platform, build the platform, making sure to accommodate the weight of the fireplace and venting. Verify the platform is level and plumb.
2. Install the alignment track (see page 24).
3. Prepare the modules for joining.
   a) Place modules on alignment track (leave gap between fireplaces – see page 25).
   b) Remove shipping end caps from fireplace modules (see page 25).
   c) Remove components to allow for fireplace joining (see page 26).
4. Join the fireplace modules.
   a) Slide modules together (see page 29).
   b) Install upper titan lock braces (**do not tighten at this time** - see page 30).
   c) Install lower titan lock braces (**do not tighten at this time** - see page 30).
   d) Place adjustable alignment tool in center of opening – adjust as necessary (see page 32).
   e) Attach tension rod – tighten as needed (see page 33) – verify fireplace alignment
   f) Tighten the titan locks (see page 34).
   g) Remove alignment tool – verify alignment (see page 34).
   h) Secure the fireplace to the alignment track (see page 34).
   i) Attach the gas and electrical lines between the fireplace modules (see page 36).
5. Install the periphery components:
   a) Install the vent (and power vent blower assembly).
   b) Install the air intake(s).
   c) Install the gas line.
   d) Install the electrical line and TouchSmart controller..
6. Test operation of the fireplace before attaching facing or drywall (this can be done with no crushed glass and the outer glass pane(s) removed). This allows the installer to verify all connections and diagnose issues with the fireplace exterior accessible.
   a) Adjust the air shutters (if needed)
   b) Adjust the exhaust blower (if needed)
   c) Shut the fireplace off. Install the outer the glass pane(s).
   d) Re-start the fireplace and test glass pane temperature (allow fireplace to burn 2 hours)
7. Frame the area around the fireplace.
8. Install the drywall and/or facing.
8. Install the hearth (if applicable). Install the mantel (if applicable).
9. Finalize the installation (see page 96).

## Category 3 Order of Install

1. Prepare the installation location.
   **NOTE**: We recommend leaving the framing near the master module open. This allows for fireplace placement and hookup. At a minimum, we recommend 12" of open area to the side of the master module.
2. Install the alignment track (see page 24).
   **NOTE**: Category 3 fireplaces use 3 tracks and 2 joining sections. Start at one end and attach the tracks together using the joining sections. NOTE: The track is symmetrical and the sections do not need to be placed in any specific order (e.g. 3' + 5' + 5' is the same as 5' + 3' + 5').
3. Module placement order and connection process.
   a) Place the end secondary module on the alignment track (this is the module that is farthest away from the master module). Make sure it is in its final location (see page 25).
   b) Place the middle module on the alignment track with 12" of separation to the end secondary module.
   c) Remove the adjacent shipping end caps from the two secondary fireplace modules (see page 25). Remove components to allow for fireplace joining (see page 26).
   d) Join the two secondary modules together:
      - Slide modules together (see page 29)
      - Install upper titan lock brackes (**do not tighten** - see page 30)
      - Install lower titan lock braces (**do not tighten** - see page 31)
      - Place adjustable alignment tool in center of opening – adjust as necessary (see page 32)
      - Attach tension rods between the two secondary modules - **do not tighten** (see page 33)
   e) Make sure the two secondary modules are in their final position (adjust/slide as necessary).
   f) Place the master module on the alignment track with approximately 12" of separation to the middle module.
   g) Remove the remaining shipping end caps from the fireplace modules (see page 25). Remove components to allow for fireplace joining (see page 26).
   h) Join the remaining modules together:
      - Slide modules together (see page 29)
      - Install upper titan lock brackets (**do not tighten** - see page 30)
      - Install lower titan lock braces (**do not tighten** - see page 31)
      - Place adjustable alignment tool in center of opening – adjust as necessary (see page 32)
      - Attach tension rods between the primary and secondary modules (see page 33)
   i) Tighten the tension rods (see page 33).
   j) Tighten the titan locks (see page 34)
   k) Remove alignment tool – verify alignment (see page 34)
4. Secure the fireplace to the alignment track (see page 35).
5. Attach the gas and electrical lines between the fireplace modules (see page 37).
6. Install the pressure switch tube (see page39).
6. Install the periphery components:
   a) Install the vent (and power vent blower assembly).
   b) Install the air intake(s).
   c) Install the gas line.
   d) Install the electrical line, on/off switch, and LED controller.
7. Test operation of the fireplace before attaching facing or drywall (this can be done with no crushed glass and the outer glass pane(s) removed). This allows the installer to verify all connections and diagnose issues with the fireplace exterior accessible.
   a) Adjust the air shutters (if needed)
   b) Adjust the exhaust blower (if needed)
   c) Shut the fireplace off. Install the outer the glass pane(s).
   d) Re-start the fireplace and test glass pane temperature (allow fireplace to burn 2 hours)
8. Frame the area around the fireplace.
9. Install the drywall and/or facing.
10. Install the hearth (if applicable). Install the mantel (if applicable).
11. Finalize the installation (see page 96).

## *Massachusetts Requirements*

NOTE: The following requirements reference various Massachusetts and national codes not contained in this document.

### Requirements for the Commonwealth of Massachusetts

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

**Installation of Carbon Monoxide Detectors**

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

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

**Approved Carbon Monoxide Detectors**

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

**Signage**

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, “GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS”.

**Inspection**

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

**Exemptions**

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

• The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and

• Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

### MANUFACTURER REQUIREMENTS

**Gas Equipment Venting System Provided**

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

• Detailed instructions for the installation of the venting system design or the venting system components; and

• A complete parts list for the venting system design or venting system.

**Gas Equipment Venting System NOT Provided**

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

• The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and

• The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

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

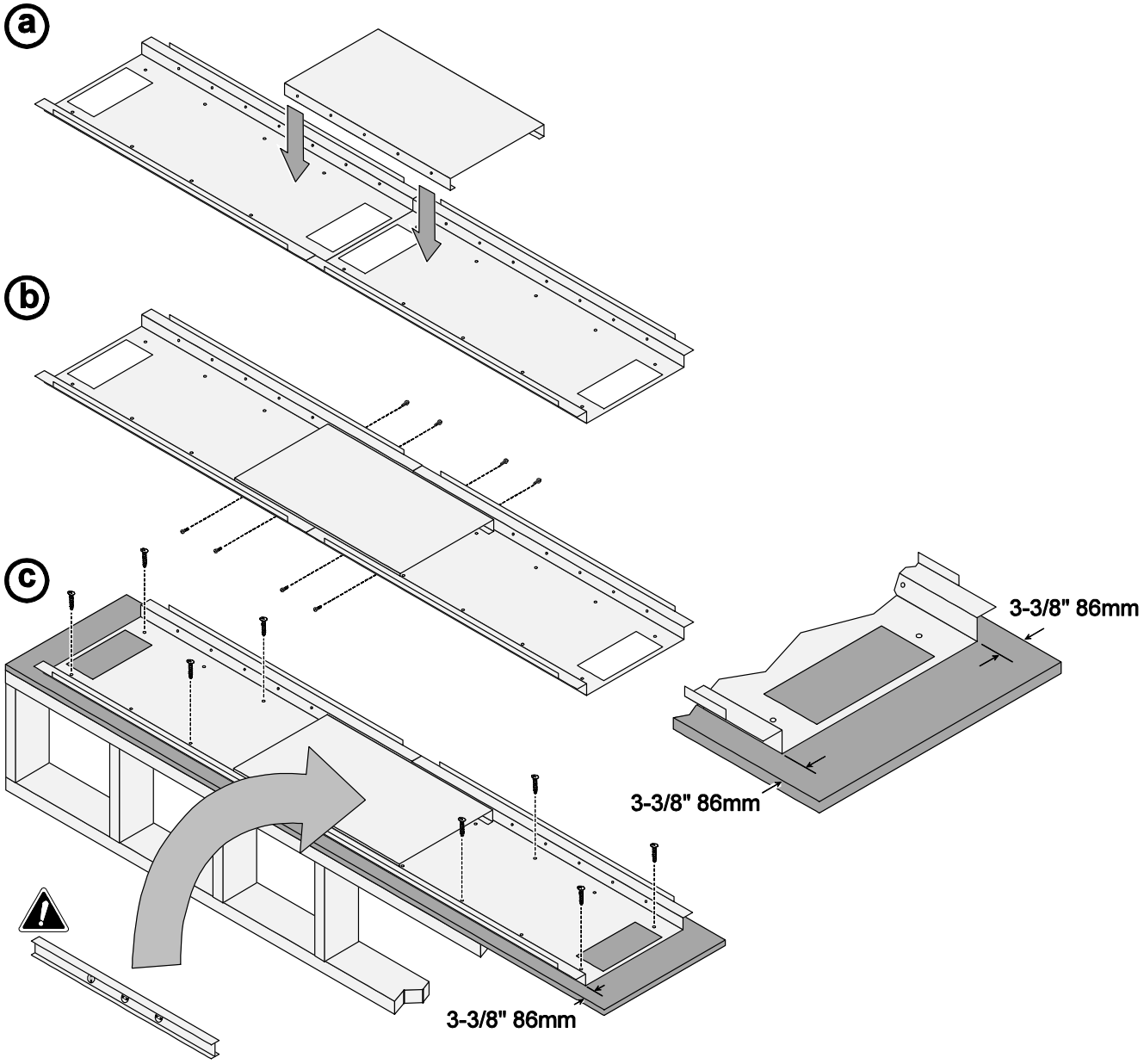
See Gas Connection section for additional Commonwealth of Massachusetts requirements.

## *Alignment Track Installation*

The alignment track is secured to the platform (or sub-floor). The fireplace modules are placed onto the alignmnet track then joined together. This allows for proper fireplace alignment and a solid base for the fireplace.

Before attaching the alignment track, make sure the platform (or sub-floor) is level and capable of supporting the fireplace and vent. Use minimum ¾" plywood for the platform.

Assemble the alignment track using the included #8 screws (see "a" and "b" below). Once assembled, it may be secured to the platform (see "c" below). Make sure to align the track to the platform and framing (the front edge of the track is 3-3/8" (86mm) from the front edge of the fireplace and platform).




Verify the Alignment Track is Level Before Proceeding

Use a level to verify the alignment track is level (check several spots across the entire length). Use shims (or washers/spacers) under the track, if necessary, to make sure the track is level.

## *Place the Fireplace on the Alignment Track*

Place the fireplace on the alignment track. Take care to prevent damage to the fireplace. Make sure the fireplace sections are separated to allow for shipping end cap removal.

**NOTE**: We strongly recommend the use of one (or two) Escalara lifts (or a forklift) when installing the fireplace. This greatly reduces the chance of damage to the fireplace or injury to installers.

**NOTE**: You may wish to leave one or both side of the framing open to allow for fireplace placement and assembly – especially on one-sided or bay installations. The framing may be temporarily removed to allow for fireplace placement, then replaced once the fireplace is in place and assembled. Do not attempt to place the fireplace modules in place unless you have sufficient room (minimum 12” 300mm) to access the sides of the fireplace modules.

## *Remove the Shipping End Caps from Fireplace Modules*

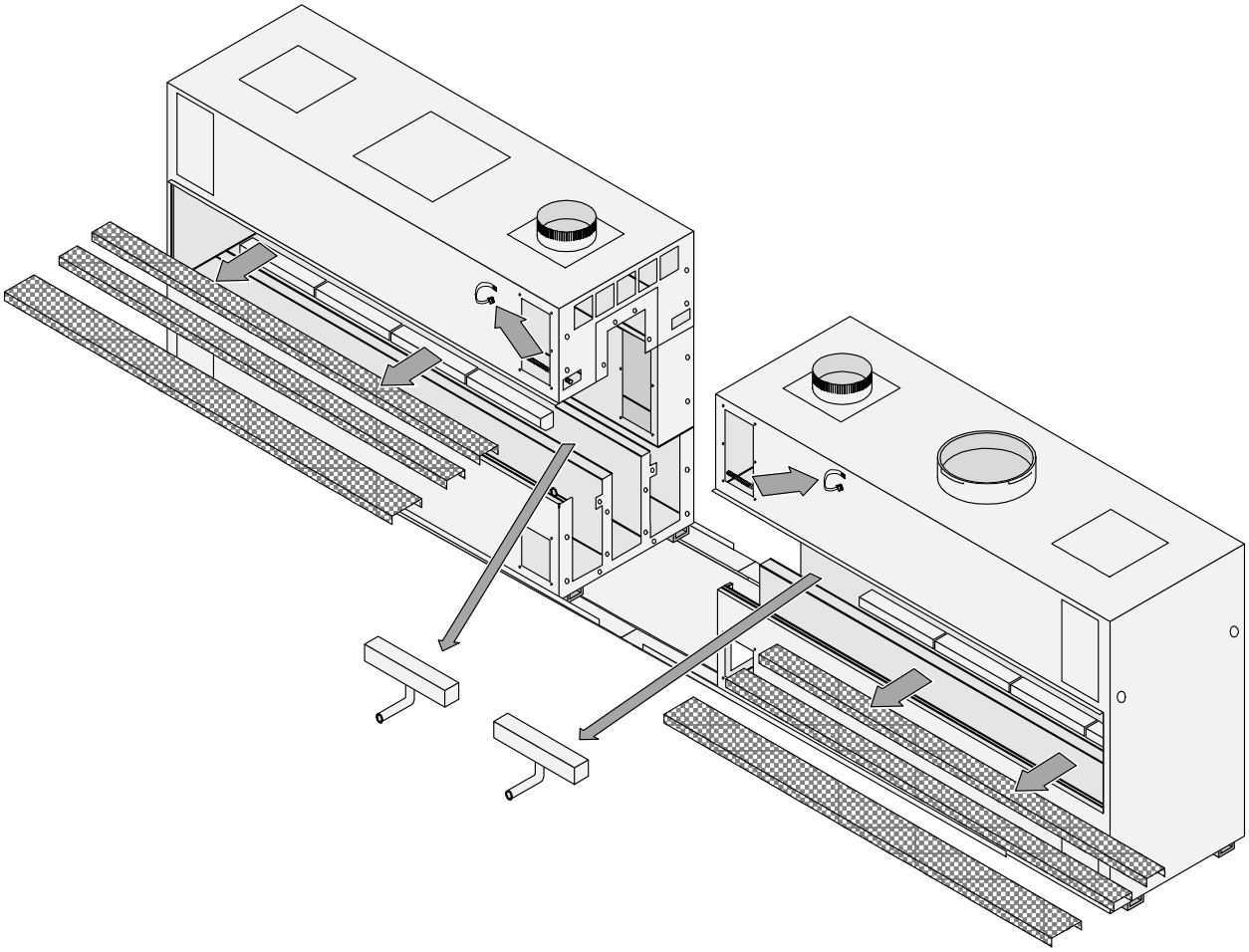
The shipping end caps are used to support the fireplace during shipping and placement. Do not remove the end caps until the fireplace is on the alignment track. The shipping end caps (and screws) may be recycled once removed.

**NOTE**: Make sure the alignment tool remains in place.

## *Remove Components to Allow for Fireplace Joining*

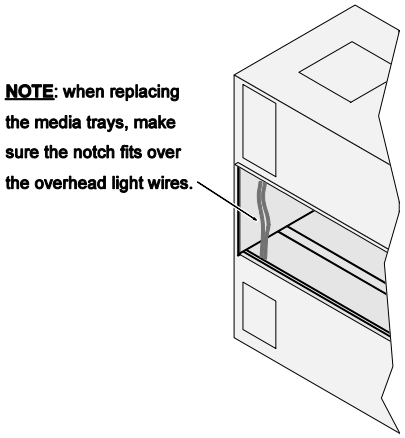
### Remove Media Trays, Tension Rod Lock-Ties, and Burners near Center of Fireplace

Remove the media trays and the burners near the center of the fireplace where the two fireplace modules join (see illustration below and pictures on the following page). This allows for access to the area near where the fireplaces join). Remove the lock-ties used to secure the tension rods during shipping.



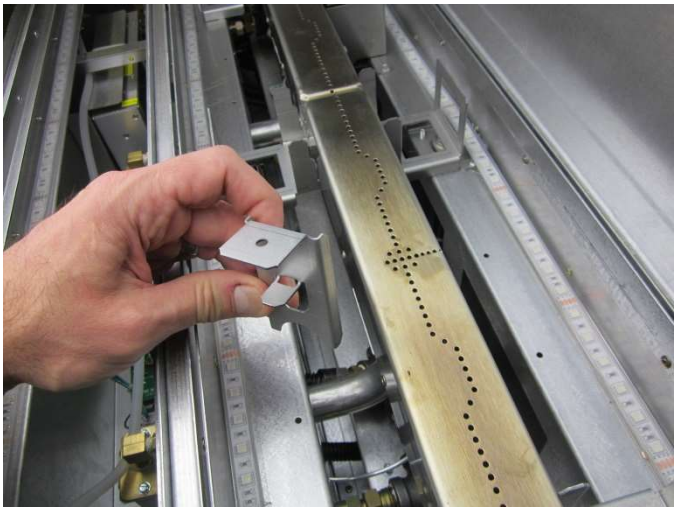
### Media Tray Removal

Remove the media trays from both fireplace modules (see pages 49 to 50).



## Burner Removal

Remove the burners near where the modules are joined (see page 50 for details).



Lift the burner up and out of the fireplace. Remove the burner supports.

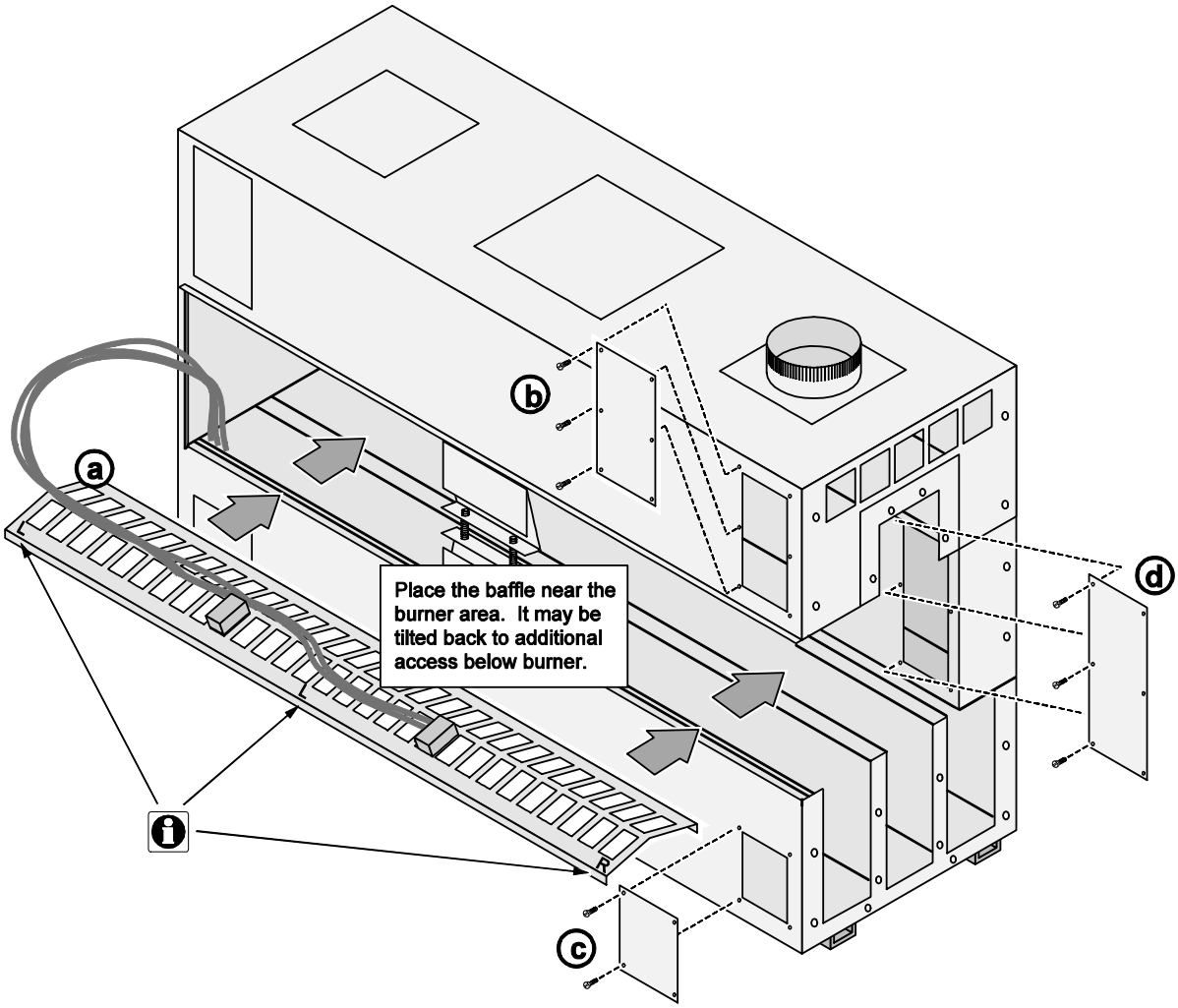
## Remove Baffle and Access Panels

The fireplace utilizes a baffle above the firebox to regulate air flow. Remove the baffle by lifting it up, tilting the front edge down, and moving the baffle out of the fireplace (see “a” below). .

| | |
|---|---|
| | **EACH BAFFLE IS UNIQUE LEFT TO RIGHT AND MODULE TO MODULE:** Each DaVinci fireplace is shipped with a baffle unique to the configuration is is specified for. If the baffle is put in backawards or in a different module, the fireplace will not operate correctly.<br><br>After removing the baffle, note its orientation. The baffles have markings on top that denote its location. The center mark denotes the module (L for left module, R for right module). The marks on the ends denote which end goes to the left (“L”) and right (“R”). NOTE: The fireplace module always has the gas control valve to the front. |
| | **EACH BAFFLE IS WIRED FOR OVERHEAD LIGHTING – TAKE CARE TO PREVENT DAMAGE TO THE WIRING.** |

See-Through, Pier, & Island Configurations Remove the upper Titan Lock access panel (see “b” below). Remove the lower Titan Lock access panel (see “c” below). Repeat this process (“b” and “c”) for the opposite side (disregard step “d”).

Single-Sided, Bay, & Side Configurations Remove the upper Titan Lock access panel (see “b” below). Remove the lower Titan Lock access panel (see “c” below). Remove the internal rear access (see step “d” below).



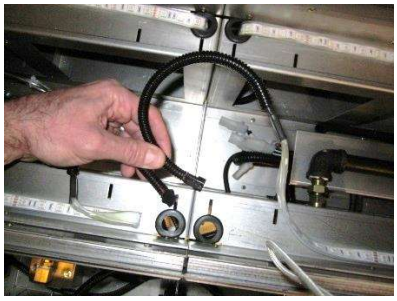
## *Slide the Fireplace Modules Together*

**MAKE SURE TO ROUTE THE INTAKE DAMPER WIRES**

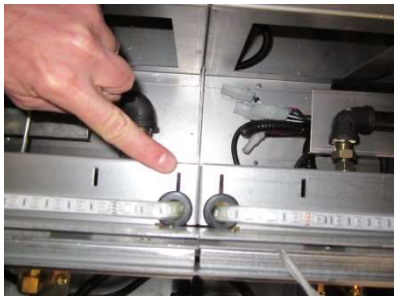
Before sliding the fireplace modules together, you will want to route the intake damper wires from the master module to the secondary module. Route the wires through the intake channel between the fireplaces and out the intake starter collar (see illustration below).

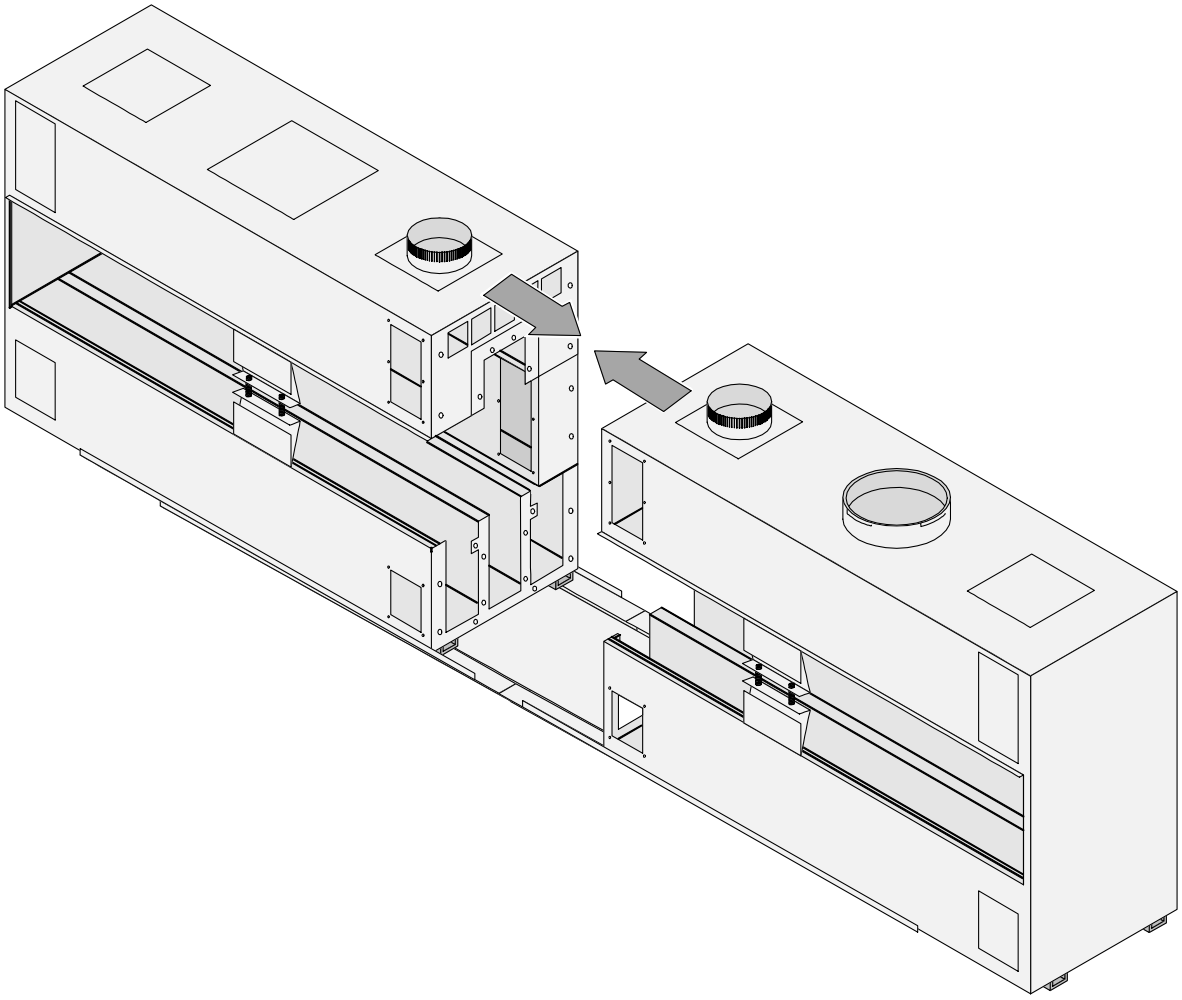
**MAKE SURE ALL WIRING AND LED STRIPS ARE MOVED ASIDE.** These electrical components should be moved aside so they do not become pinched or damaged. The LED strips near the areas being joined should be positioned inwards (not through the grommeted holes – see pictures below).

**Make sure the LED Wires are Positioned Inwards Before Sliding Modules Together**



**After Titan Locks are Installed, Route LED Wires Through the Grommeted Access Holes**





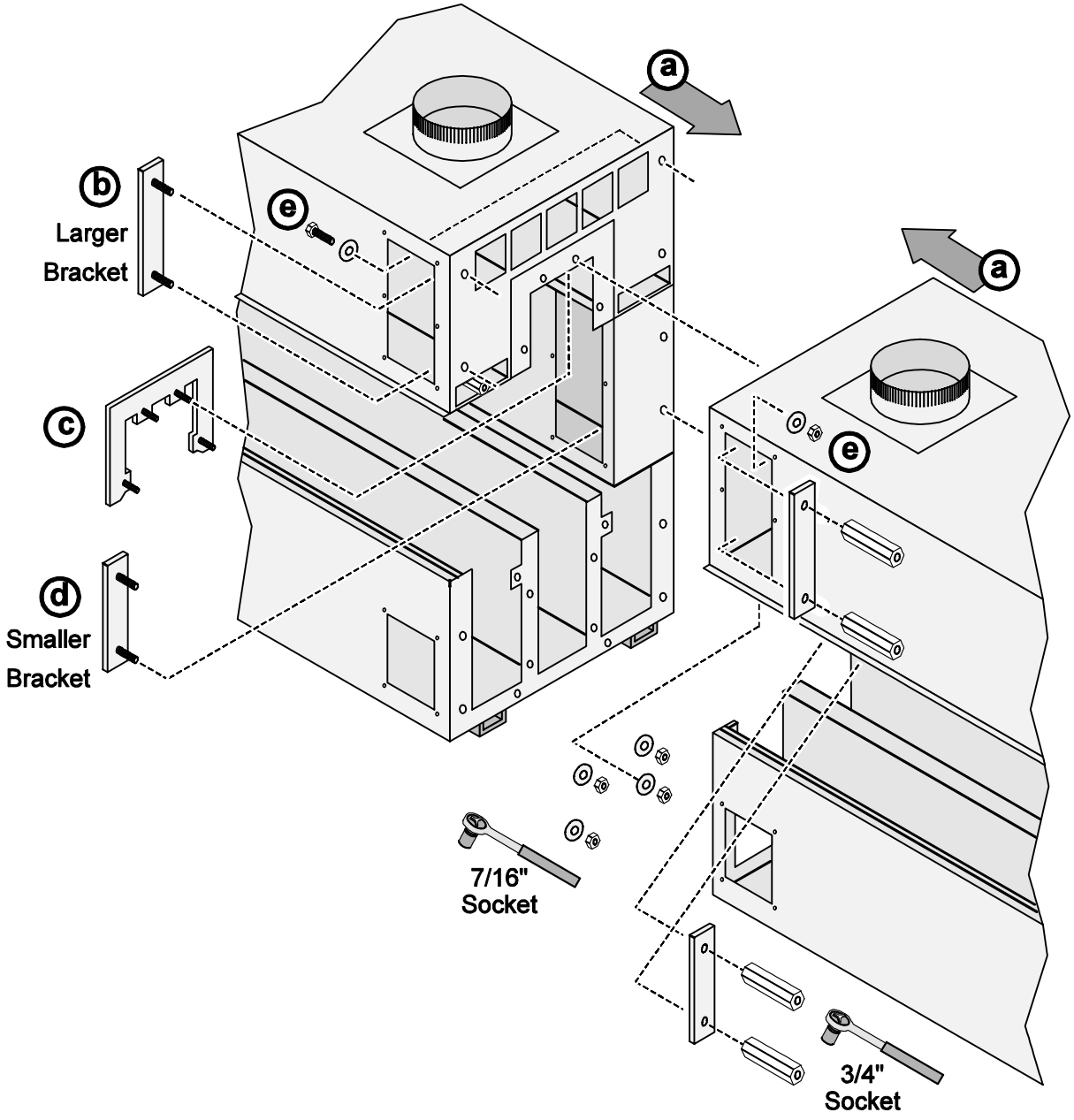
## *Install Upper Titan Lock Braces (do not fully tighten)*

Do not tighten the Titan braces until the glass opening is adjusted (see 32 for details).

With the fireplace slid together (“a”), insert the upper outer brace into place (see “b” below). Hand-tighten the coupler nuts onto the brace. Insert the upper inner brace into place (see “c” below). Place washers over the studs then hand-tighten the nuts to secure the brace in place.

See-Through, Pier, & Island Configurations Insert the second upper outer brace into place from the opposite side (same as “b” below, but from opposite side). Hand-tighten the coupler nuts onto the brace.

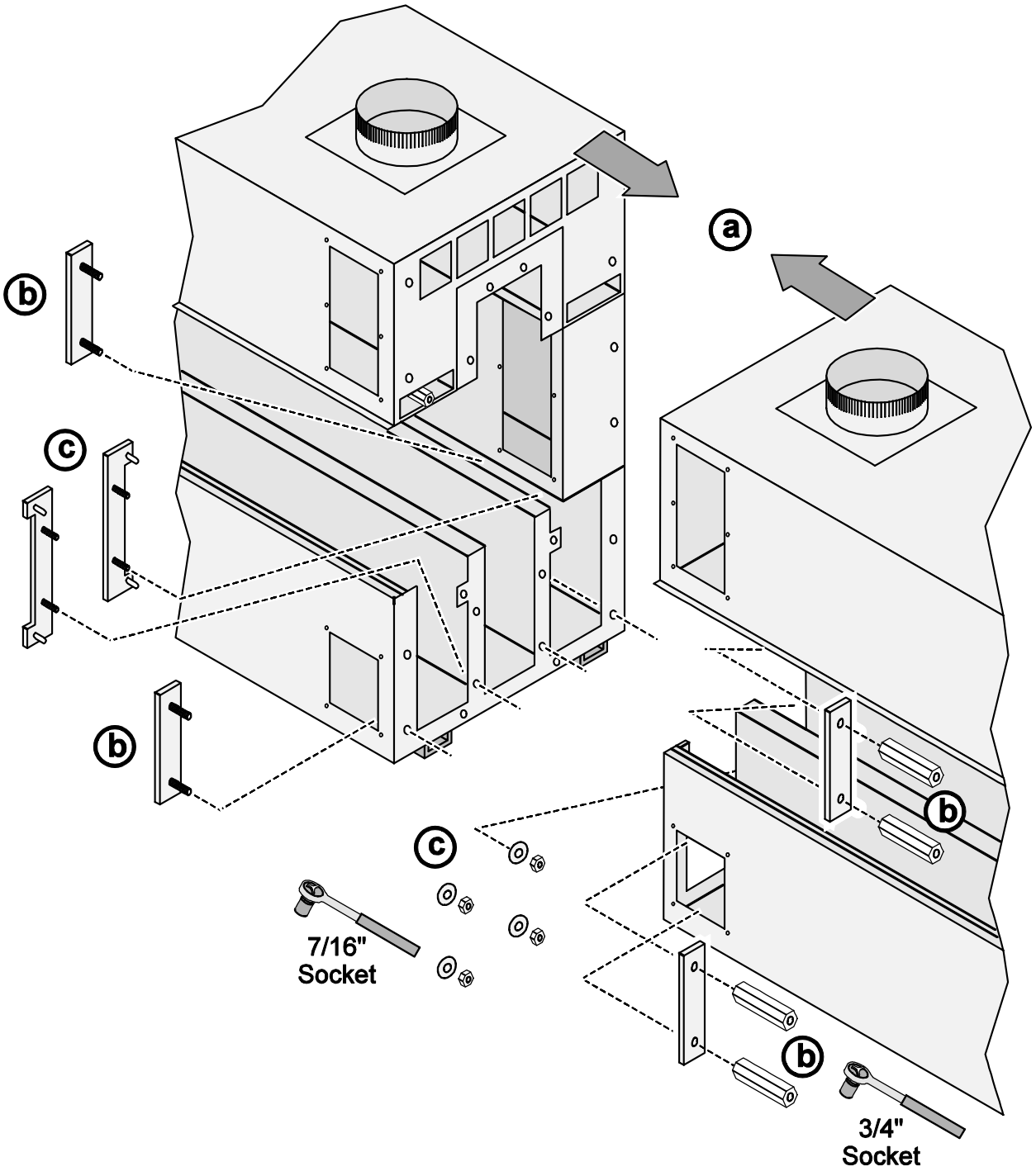
Single-Sided, Bay, & Side Configurations The upper outer brace for the back side is installed from inside the firebox (see “d” below). Hand-tighten the coupler nuts onto the brace. Install the ½” nut and bolt on the back side (see “e” below). These fasteners are accessed by reaching all the way through the intake channel.



## *Install Lower Titan Lock Braces (do not fully tighten)*

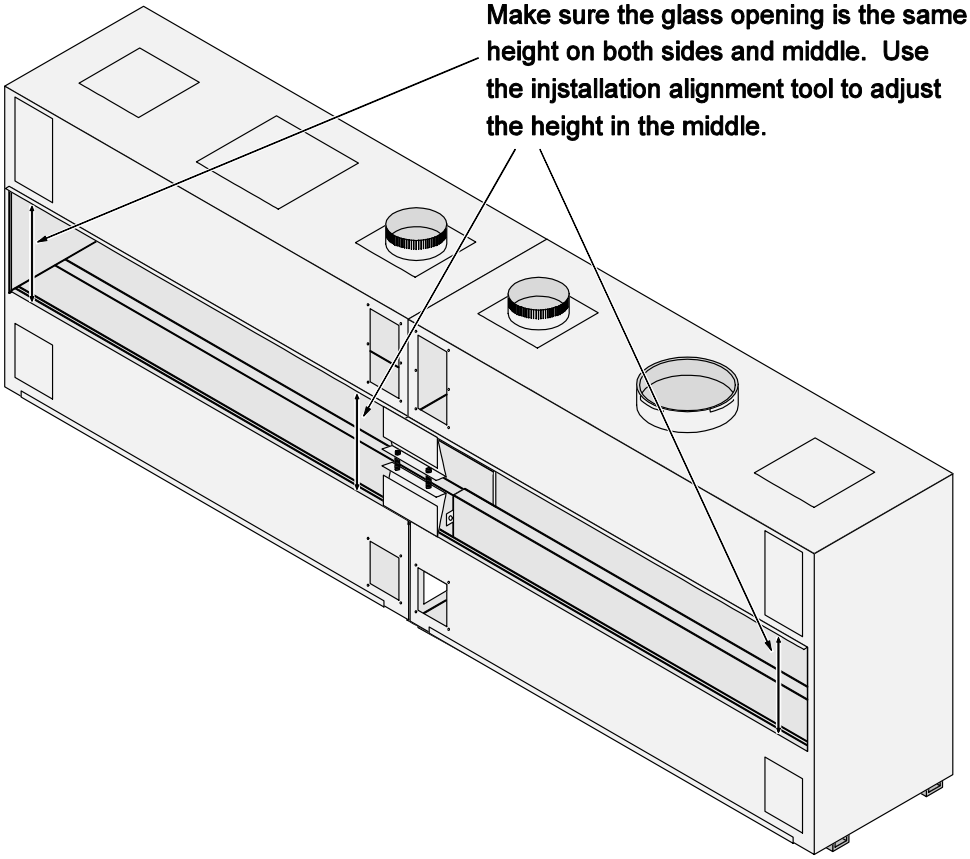
Do not tighten the Titan braces until the glass opening is adjusted (see 32 for details).

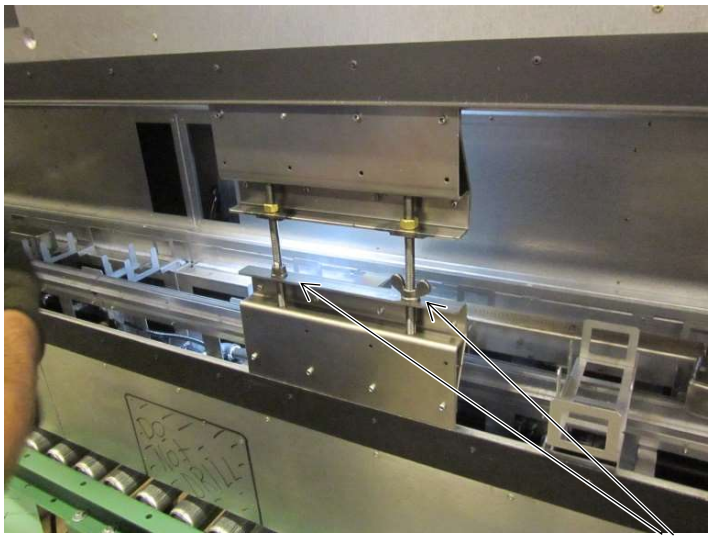
With the fireplace slid together (“a”), insert the lower outer braces into place (see “b” below). Hand-tighten the coupler nuts onto the brace. Insert the lower inner braces into place (see “c” below). Place washers over the studs then hand-tighten the nuts to secure the brace in place.



## *Place Installation Alignment Tool in Center of Glass Opening and Adjust*

The installation alignment tool is used to align the two fireplace modules so the glass opening is uniform in height. Single-Sided, Bay, and Side fireplaces use one alignment tool. Double-Sided, Pier, and Island fireplaces use two alignment tools.



To align the glass opening, place the alignment tool between the two modules. Use the wing nuts to expand the support until it is tight. Measure the glass opening height on one side. Then measure where the two modules come together. This height should be identical. Use the wing nuts to expand the support as needed until the glass opening height is uniform. Do not remove the alignment tool until the Titan Lock connectors are fully tightened (see next page).

## *Attach Tension Rods*

The tension rods pull the fireplace together to prevent the center from dipping down. This ensures the glass opening remains square and the glass aligns properly. Follow the directions below to adjust:

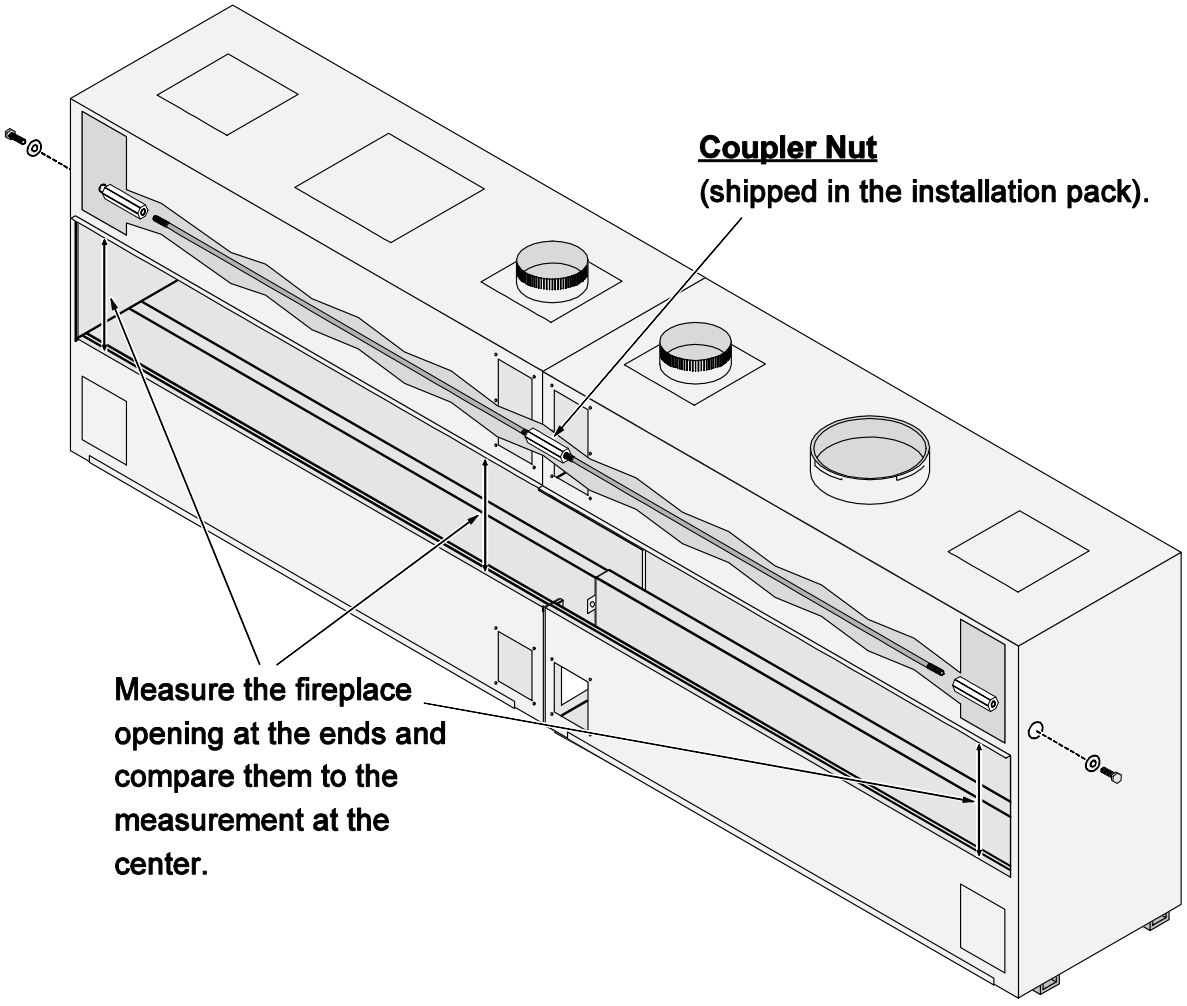
**NOTE: Island, Pier, and See-Through Units use 2 tension rods (all other types use 1 tension rod).**

a) Remove the cover plates where the tension rods come together.

b) Connect the tension rod(s) together using the included coupler nut(s) (shipped in the installation pack). Tighten them by placing socket wrenchs on both ends of the fireplace and tightening until the rod is snug (do not over-tighten).

c) Measure the fireplace opening at the ends compare them to the measurement at the center to verify glass height is uniform. If the center height is within 1/8" of the outer heights, adjustment is sufficient and the rods may be left in place (replace covers plates over the tension rods to complete finalize tension rod adjustment).

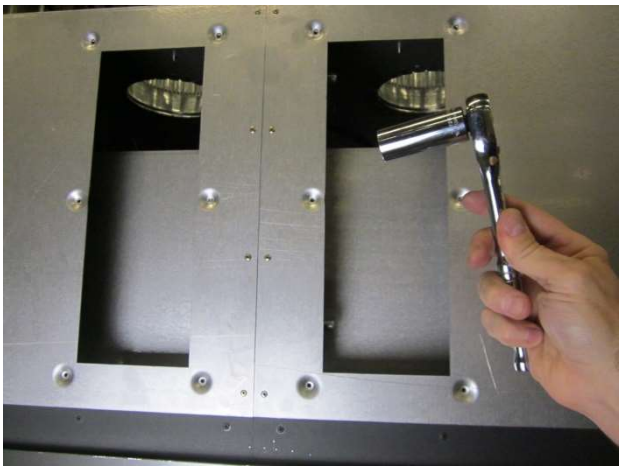
d) If the height is slightly less at the center, tighten the bolts 1 turn (do not tighten the bolts more than 40 ft/lbs). Repeat steps "c"and "d" until suitable alignment is achieved (do not over-tighten). If the glass opening remains more than 1/8" out of alignment, you may need to repeat the alignment process (titan locks, installation alignment tool, and tension rods – contact Travis Industries for details and recommendations).



## *Tightening the Titan Lock Connectors*

With the glass opening height aligned, the Titan Locks may now be fully tightened. Start with the upper outer braces. Tighten these braces to approximately 80 ft/lbs (very tight). The upper inner brackets may then be tightened snug (approximately 20 ft/lbs). Next tighten the lower outer braces (approximately 80 ft/lbs). Lastly, tighten the inner lower brackets snug (20 ft/lbs.).

**7/8" Socket Wrench (outer braces)**



**7/16" Socket Wrench (inner braces)**

**NOTE**: After tightening the Titan Locks, double-check the glass opening height. It should be uniform across the width of the glass opening. If it is not, you will need to loosen the titan locks, adjust the alignment tool, then re-tighten the titan locks.

## *Remove the Installation Alignment Tool(s)*

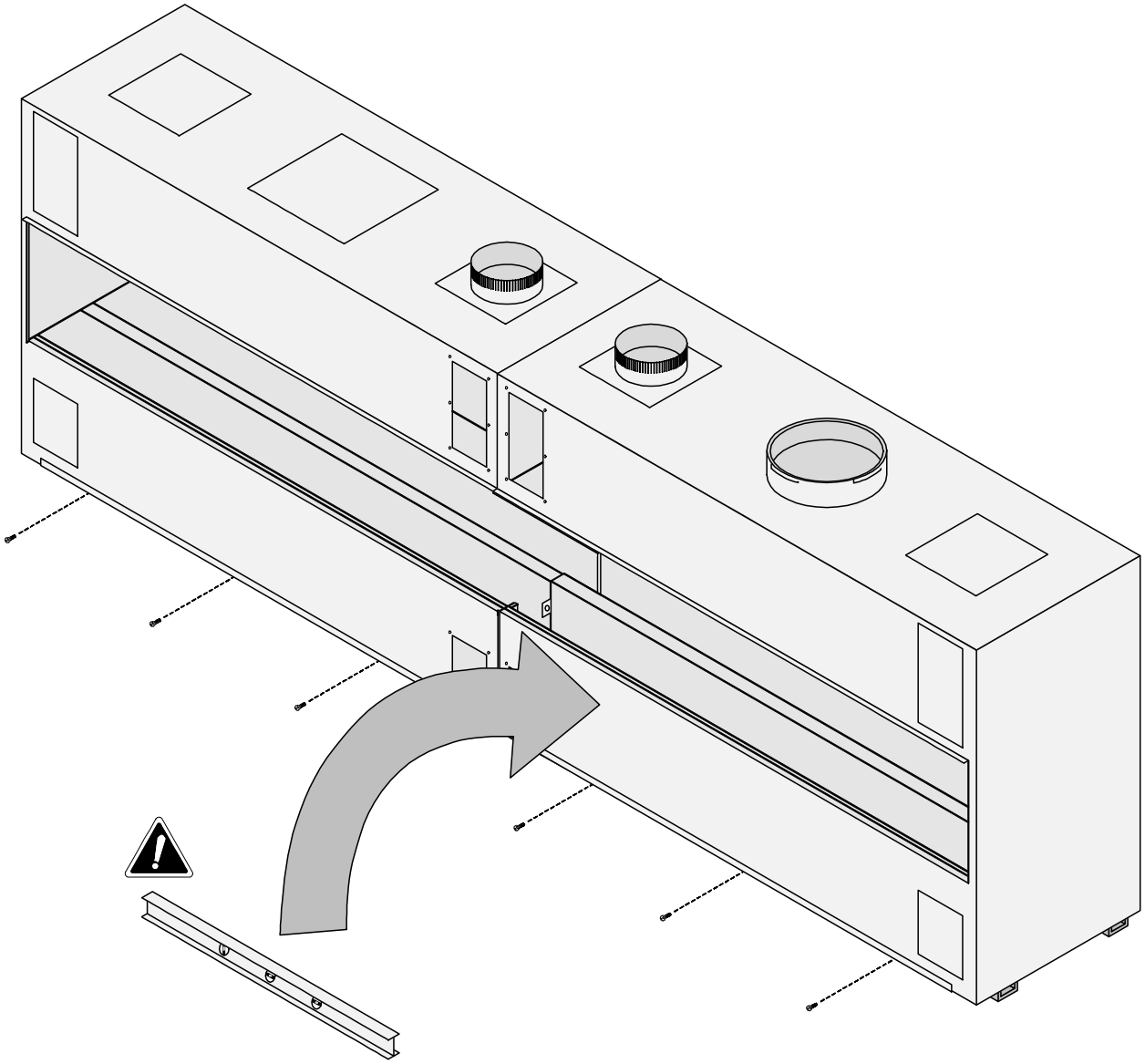
Loosen the wing nuts on the alignment tool(s) and remove them from the fireplace. The alignment tools may be recycled after fireplace installation is complete.

## *Secure the Fireplace to the Alignment Track*

Verify the Fireplace is Level Before Proceeding

Use a level to verify the fireplace is level (check several spots across the entire length). Use shims (or washers/spacers) under the fireplace, if necessary, to make sure the fireplace is level.

The alignment track as hoirzontal holes that allow for the fireplace to be secured to the track. Make sure the fireplace is correctly positioneed left to right, then use #8 zip screws to secure the fireplace to the track.

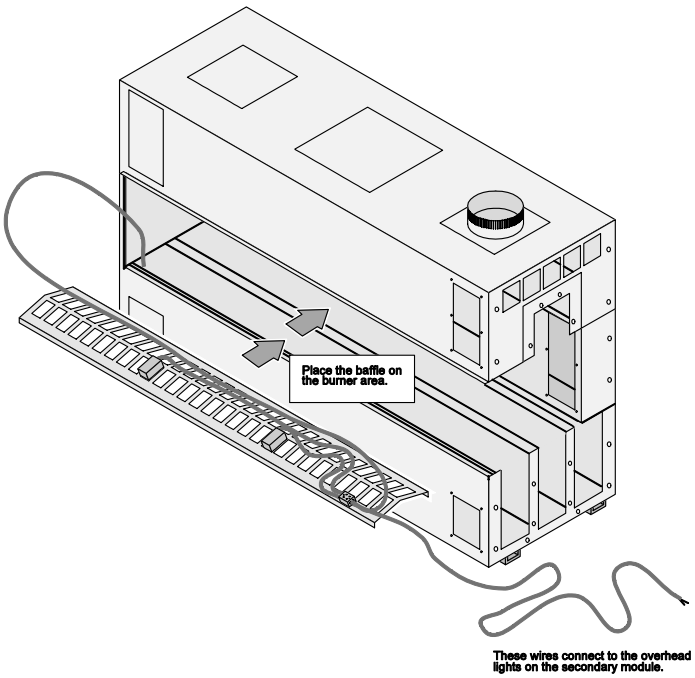


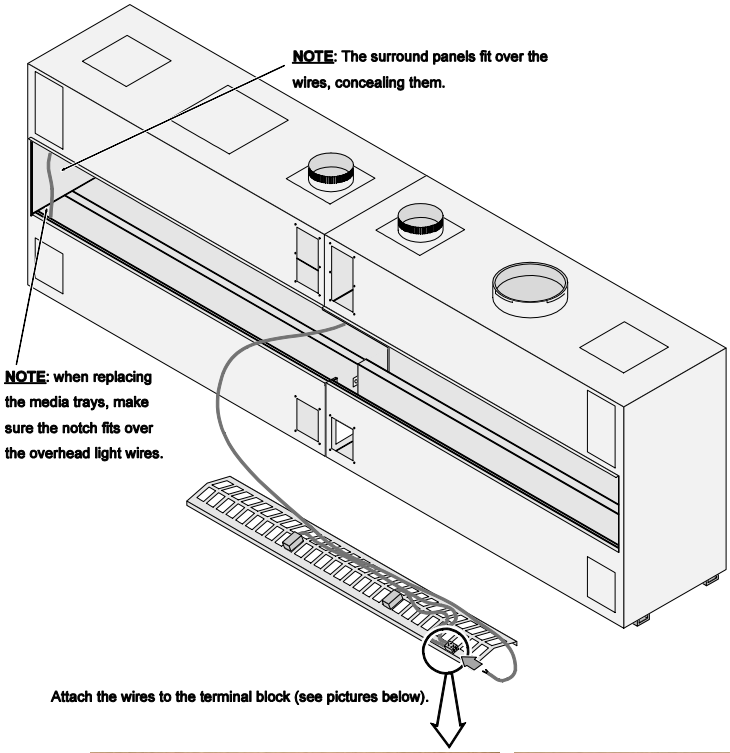
## *Overhead Light Connection – Category 2+ Units*

When using a Category 2 or greater DaVinci with overhead lights, the overhead light wires will need to be connected. Follow the steps below to connect the wires. For Category 3+ join the sections and connect the wiring in each section in the same manor shown below.

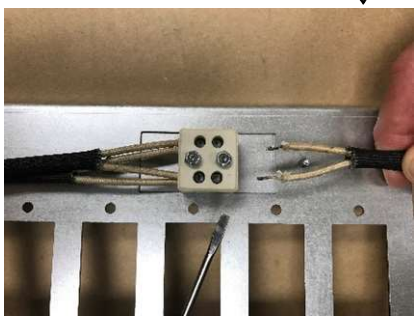
1 Remove the baffle from the master module and place it on the burner area. Locate the bundled wire connected to the ceramic terminal bar and remove the wire tie. Direct the wire toward the open end of the module (see picture to right).

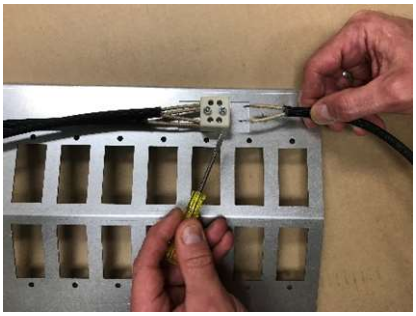
2 On the secondary module, remove the baffle and place it on the burner area. Join the secondary module to the master module.




3 Reinstall the baffle in the master module and run the previously bundled wire to the ceramic bus bar on the secondary module baffle. Connect the wires to the terminal block as shown below.





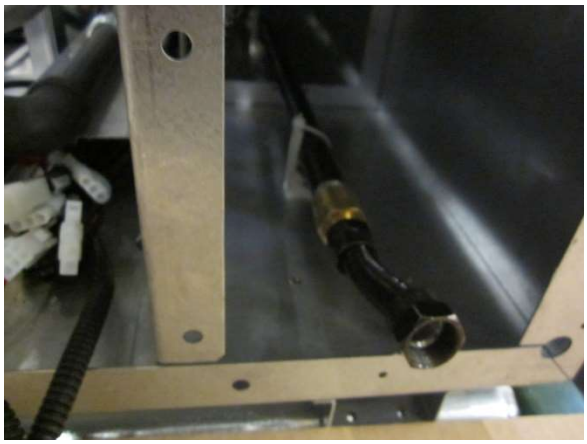
4 Reinstall the secondary module baffle.
5 Secure all excess wiring to make sure it does not contact hot components.
6 When installing the media trays, make sure the notch fits over the overhead light wires.

## *Attach the Gas and Electrical Lines between the Fireplace Modules*

After the fireplace is in place and secured to the alignment track, the gas and electrical systems between the modules may be joined.

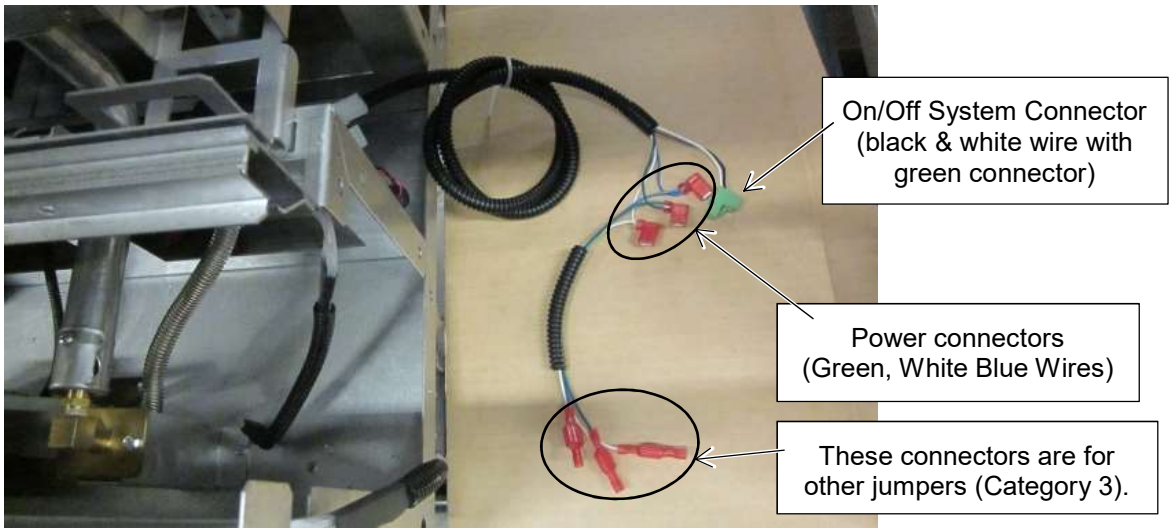
### Gas Inlet Connection

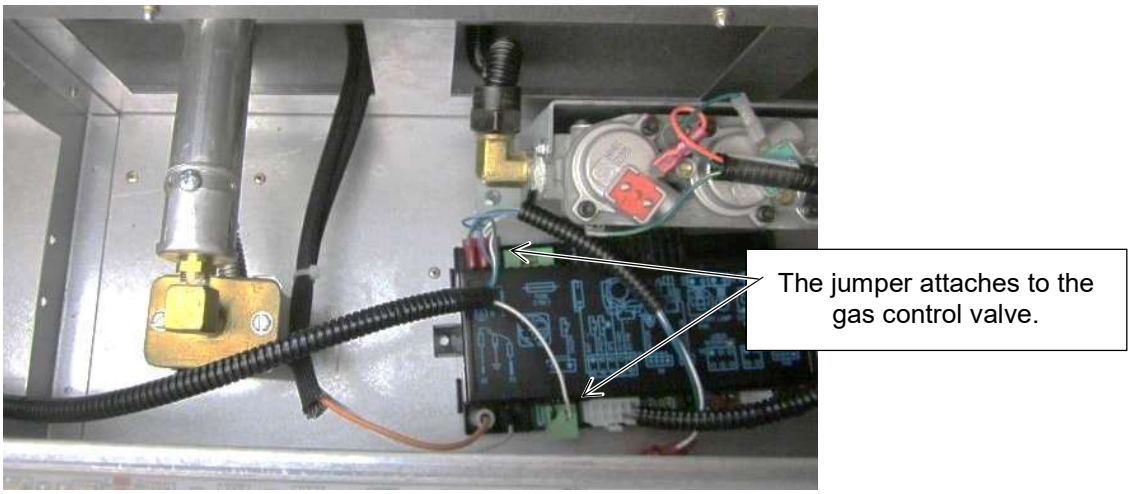
- A 3-1/2” (87mm) flex connector is shipped attached to the fireplace (see photo below to the left). It is used to connect the gas lines between modules. Attach the open end of the connector to the adjoining fireplace (see photo below to the right). Make sure to leak test this connection after gas is plumbed to the fireplace.



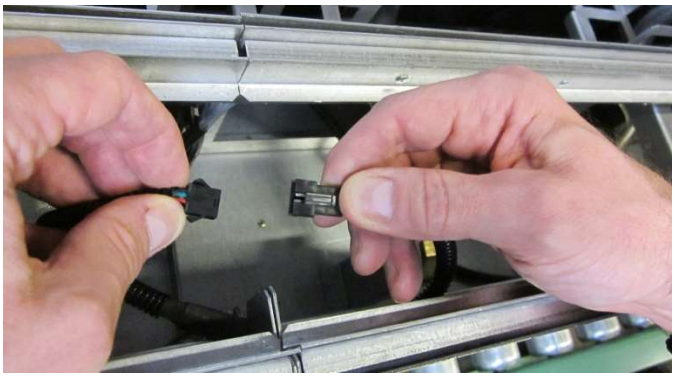
## Fireplace Module Jumper Wires

- Route the 5-wire jumper from the master module to the IFC on the secondary module (see photo below to the left). The green/white/blue wires attach to the power input on the IFC (green to ground, white to neutral "N", blue to line "L" – see photo below to the right). Attach the green "phoenix" connector (black and white wire) to the on/off system connector.




- Attach the LED connectors between sections (see photo below).



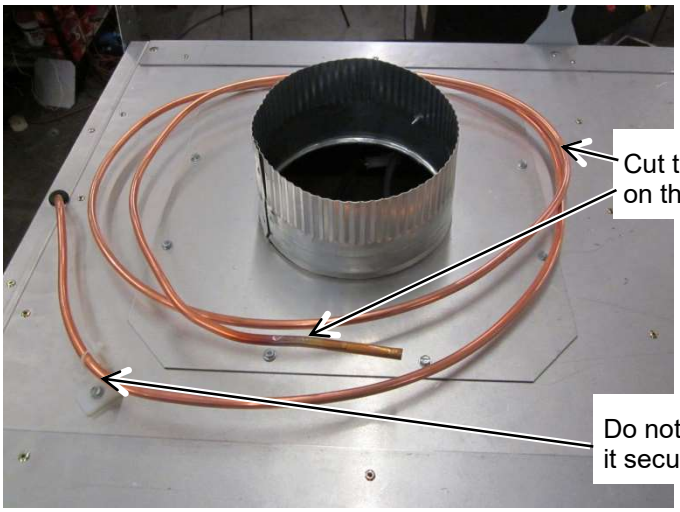
## *Pressure Switch Tube Installation (Category 3 Only)*

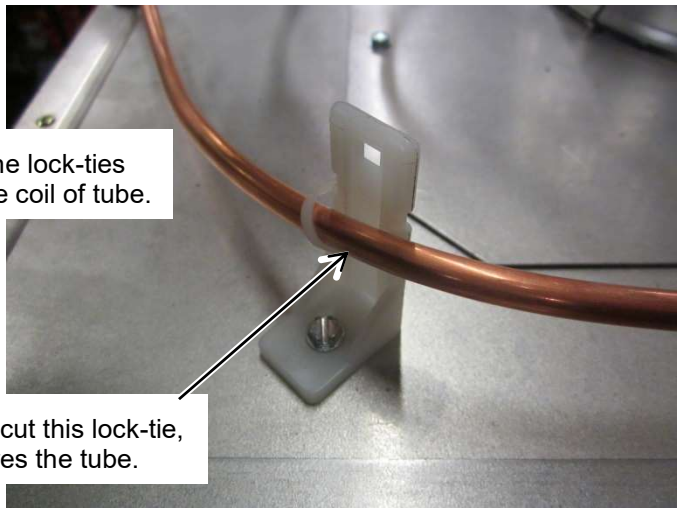
When installing a category 3 (or greater) DaVinci fireplace, the pressure switch tube will need to be installed into the center exhaust vent starter section. It cannot be pre-installed at the factory because the master module is always on one side and the vent starter section on the secondary module. To install the pressure switch tube, follow the directions below.

The pressure switch tube is critical to fireplace operation. If it is damaged, installed incorrectly, or omitted, the fireplace will not operate or create a safety hazard.

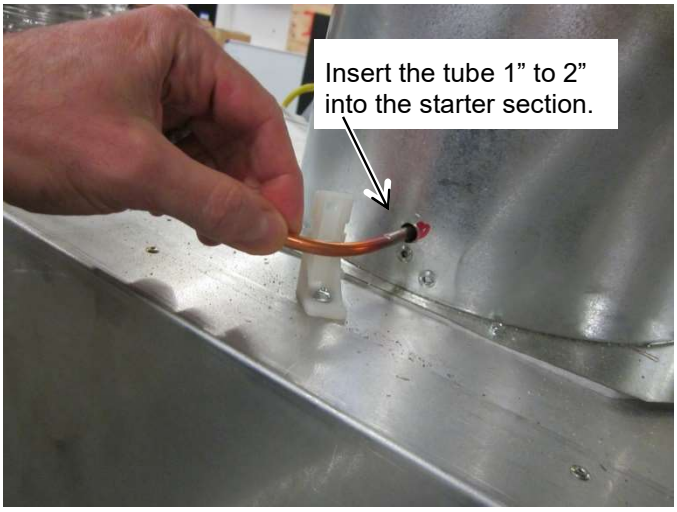
1. The fireplace should be in place with the modules connected together. We recommend installing the pressure switch tube prior to installing vent and framing over the fireplace to allow for maximum access.
2. The pressure switch is shipped lock-tied to the top of the master module. Carefully cut the lock-tie and route the pressure switch tube to the center exhaust vent starter section.

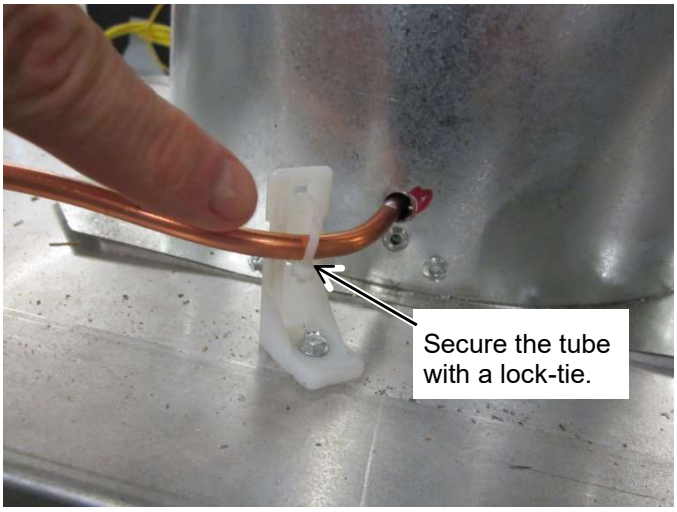
**DO NOT BEND THE TUBING AT A SHARP ANGLE – KINKS/HOLES WILL DISABLE THE FIREPLACE.**



3. Insert the tube into the pre-drilled hole on the starter section. It should insert approximately 1” to 2”. Attach the tube to the vertical stand with a lock tie (this prevents the tube from pulling out of the starter section.



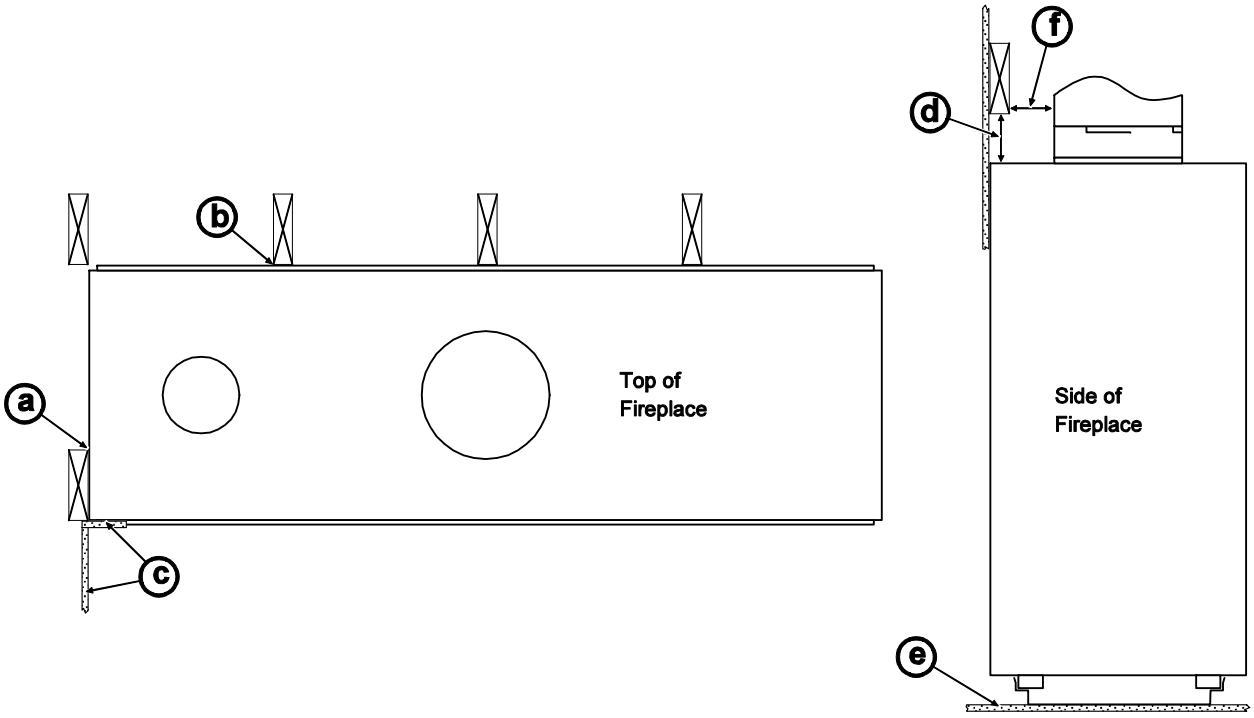



## *Fireplace Placement Requirements*

- This appliance may be installed into a residential or commercial/public space.
- Fireplace must be installed on a level surface capable of supporting the fireplace and vent
- Fireplace must be placed directly on wood or non-combustible surface (not on linoleum or carpet)
- Fireplace should be located out of traffic and away from furniture and draperies.
- Fireplace may be placed in a bedroom.

### Clearances

(a) Clearance to Sides of Fireplace: 0".
(b) Clearance to Back of Fireplace: 0".
(c) Clearance to Front of Fireplace: 0".
NOTE: do not cover the glass opening with any material.
NOTE: Side walls may be placed directly to the side of the fireplace.
(d) Clearance to Top of Fireplace: 0"
(e) Clearance to Bottom of Fireplace: 0" (may be placed directly on subfloor).
(f) Clearance to Vent 1" (25mm)




### Raised Fireplaces

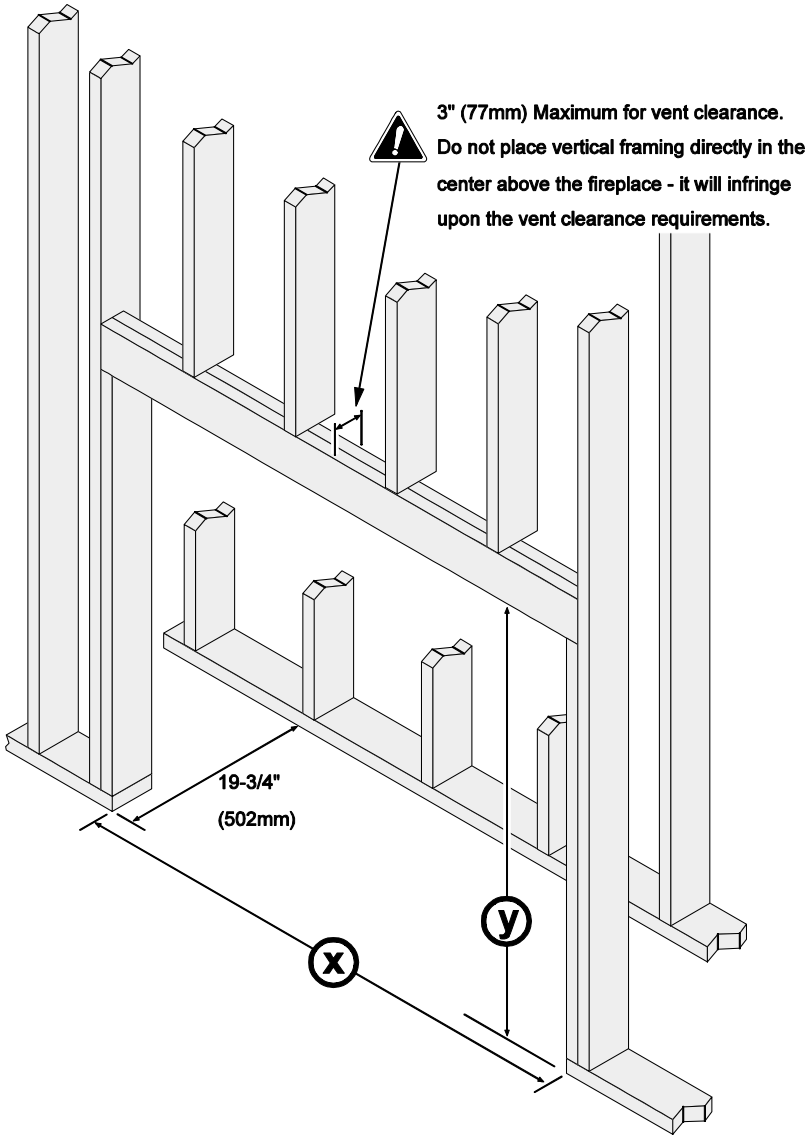
- The fireplace (and hearth, if desired) may be placed on a platform designed to support the fireplace and vent.
- The base of the platform must be a minimum ¾" plywood (or equivalent). This provides the necessary support for the fireplace runners.

***HINT***: We typically have displayed this fireplace on a 24" to 36" raised platform. Keep in mind that the firebox opening (base of the flames) is 12" above the base. Desired position may vary depending upon room size, typical viewing angle, and aesthetic intent.

## *Typical Framing Dims. – One Sided Configuration*

**Important Notes Regarding Framing**

We strongly suggest framing around the fireplace after it is in place. If you do frame before fireplace placement, add 6” to each side to allow for fireplace assembly. Dimension “x” shown in the table below includes the extra 6” to each side.

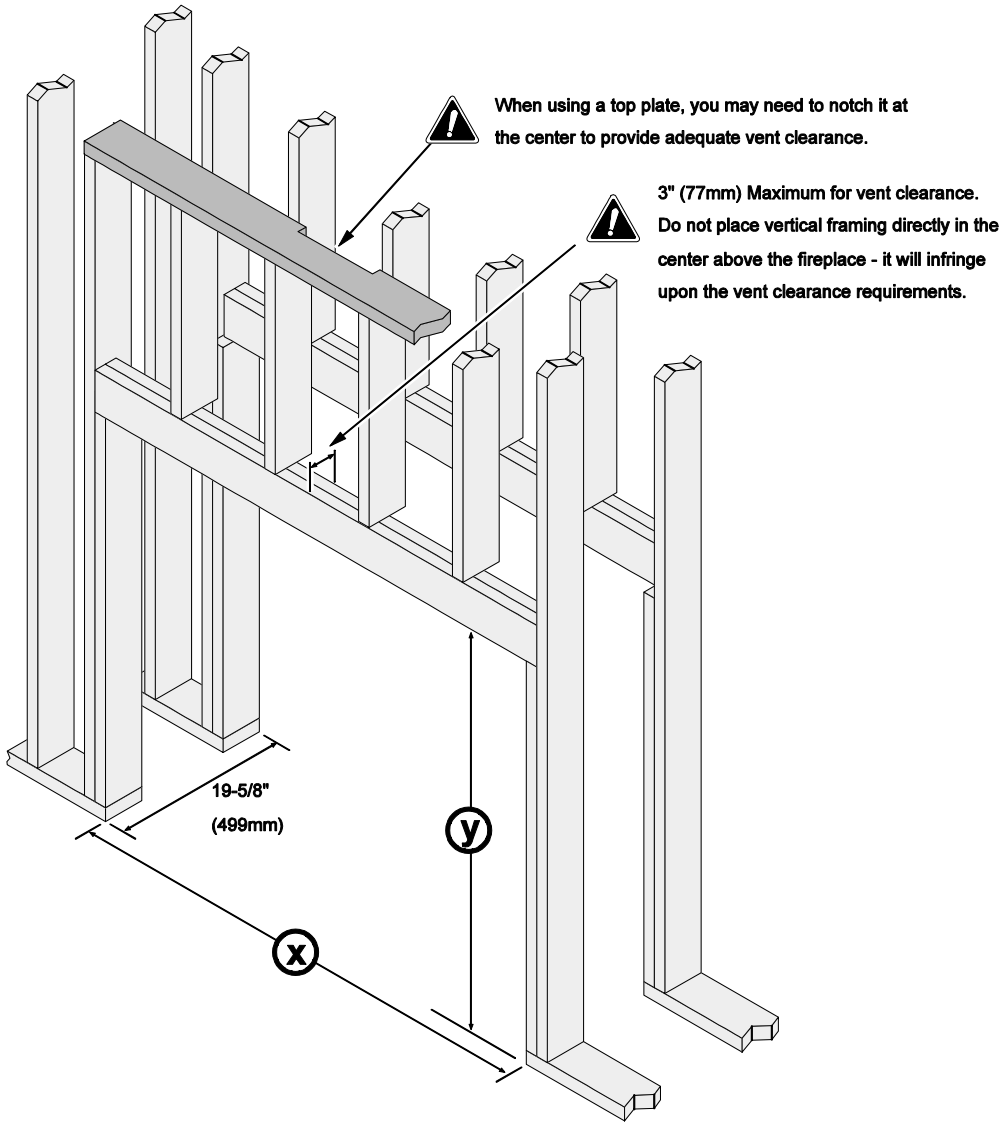



| | Version | Width (x) | Height (y) 12” Glass | Height (y) 20” Glass | Height (y) 30” Glass | Height (y) 36” Glass | Height (y) 48” Glass | Height (y) 58” Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 72” Single Sided | 86” (2185mm) | 50-5/8” (1286mm) | 58-5/8” (1490mm) | 68-5/8” (1744mm) | 74-5/8” (1896mm) | 86-5/8” (2201mm) | 96-5/8” (2455mm) |
| | 84” Single Sided | 98” (2490mm) | | | | | | |
| | 96” Single Sided | 110” (2794mm) | | | | | | |
| | 108” Single Sided | 122” (3099mm) | | | | | | |
| | 120” Single Sided | 134” (3404mm) | | | | | | |
| Category 3 | 132” Single Sided | 146" (3709mm) | | | | | | |
| | 144” Single Sided | 158" (4014mm) | | | | | | |
| | 156” Single Sided | 170" (4318mm) | | | | | | |
| | 168” Single Sided | 182" (4623mm) | | | | | | |
| | 180” Single Sided | 194" (4928mm) | | | | | | |

## *Typical Framing Dims. – See Through Configuration*

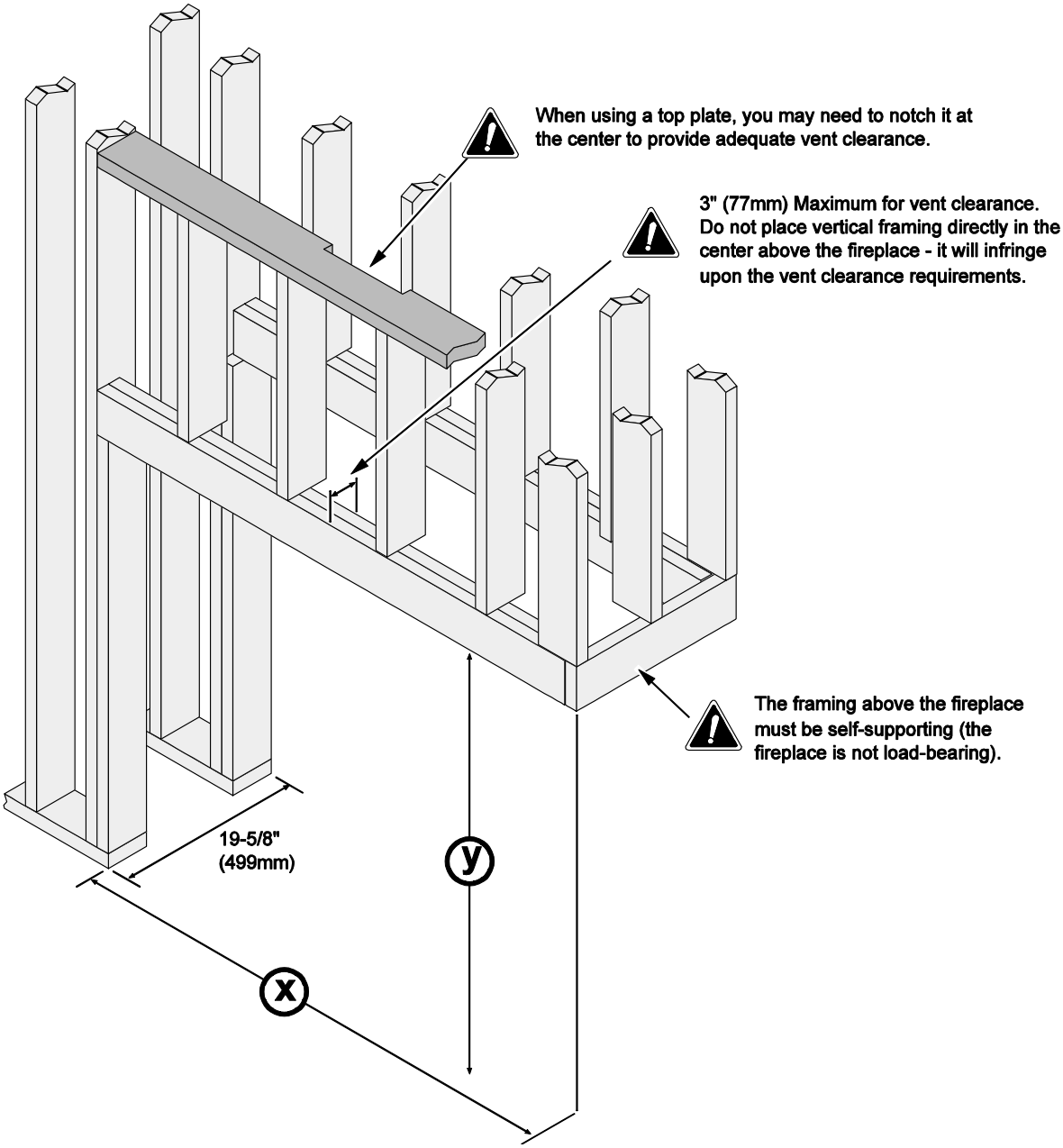
Important Notes Regarding Framing

We strongly suggest framing around the fireplace after it is in place. If you do frame before fireplace placement, add 6” to each side to allow for fireplace assembly. Dimension “x” shown in the table below includes the extra 6” to each side.



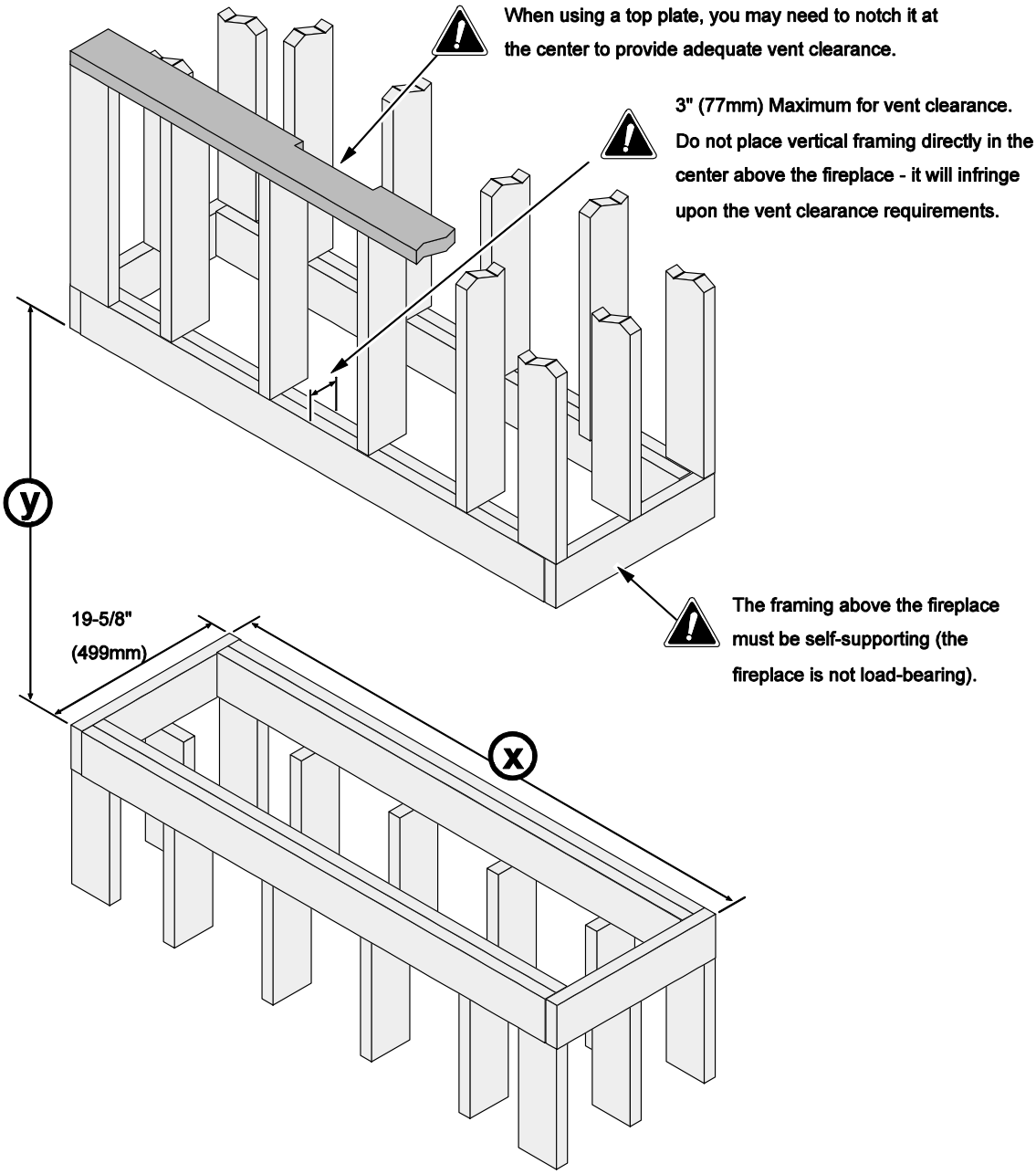

| | Version | Width (x) | Height (y) 12” Glass | Height (y) 20” Glass | Height (y) 30” Glass | Height (y) 36” Glass | Height (y) 48” Glass | Height (y) 58” Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 72” See Through | 86” (2185mm) | 50-5/8” (1286mm) | 58-5/8” (1490mm) | 68-5/8” (1744mm) | 74-5/8” (1896mm) | 86-5/8” (2201mm) | 96-5/8” (2455mm) |
| | 84” See Through | 98” (2490mm) | | | | | | |
| | 96” See Through | 110” (2794mm) | | | | | | |
| | 108” See Through | 122” (3099mm) | | | | | | |
| | 120” See Through | 134” (3404mm) | | | | | | |
| Category 3 | 132” See Through | 146" (3709mm) | | | | | | |
| | 144” See Through | 158" (4014mm) | | | | | | |
| | 156” See Through | 170" (4318mm) | | | | | | |
| | 168” See Through | 182" (4623mm) | | | | | | |
| | 180” See Through | 194" (4928mm) | | | | | | |

## *Typical Framing Dims. – Pier Configuration*



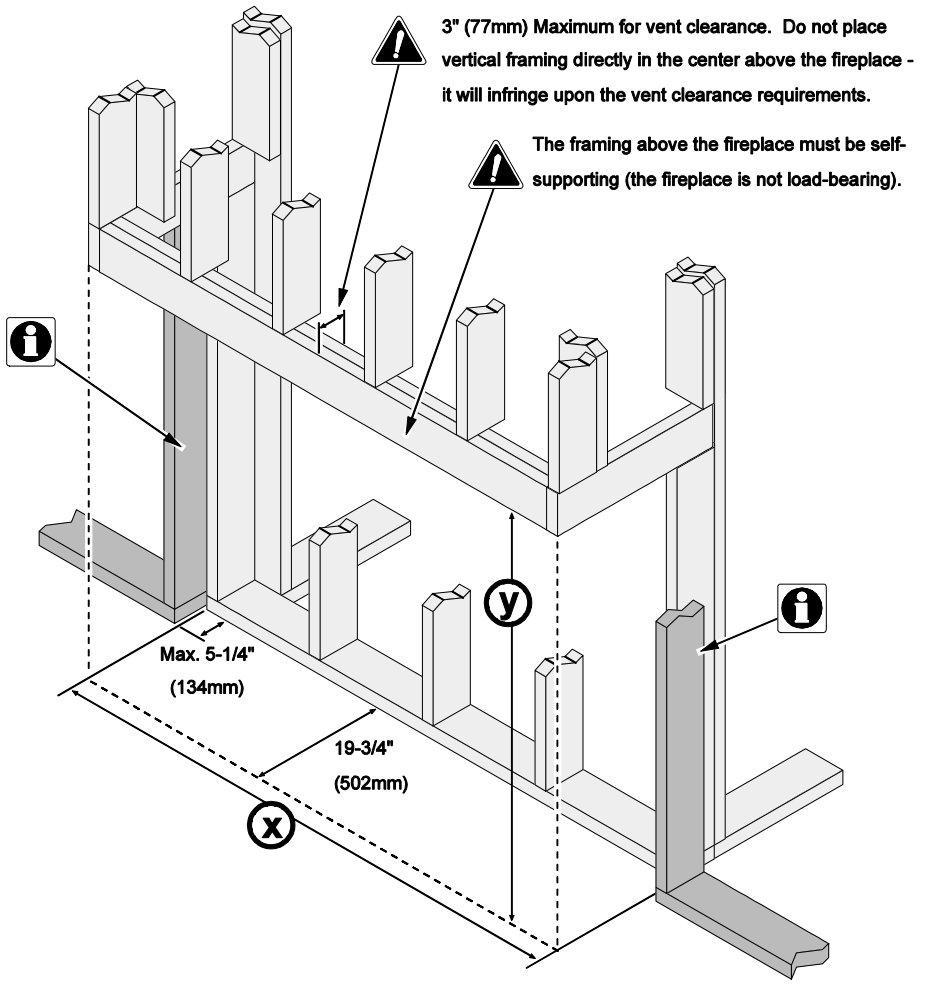

| | Version | Width (x) | Height (y) 12" Glass | Height (y) 20" Glass | Height (y) 30" Glass | Height (y) 36" Glass | Height (y) 48" Glass | Height (y) 58" Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 78" Pier | 79-1/2" (2020mm) | 50-5/8" (1286mm) | 58-5/8" (1490mm) | 68-5/8" (1744mm) | 74-5/8" (1896mm) | 86-5/8" (2201mm) | 96-5/8" (2455mm) |
| | 90" Pier | 91-1/2" (2325mm) | | | | | | |
| | 102" Pier | 103-1/2" (2629mm) | | | | | | |
| | 114" Pier | 115-1/2" (2934mm) | | | | | | |
| | 126" Pier | 127-1/2" (3239mm) | | | | | | |
| Category 3 | 138" Pier | 139-1/2" (3544mm) | | | | | | |
| | 150" Pier | 151-1/2" (3849mm) | | | | | | |
| | 162" Pier | 163-1/2" (4153mm) | | | | | | |
| | 174" Pier | 175-1/2" (4458mm) | | | | | | |
| | 186" Pier | 187-1/2" (4763mm) | | | | | | |

## *Typical Framing Dims. – Island Configuration*




| | Version | Width (x) | Height (y) 12” Glass | Height (y) 20” Glass | Height (y) 30” Glass | Height (y) 36” Glass | Height (y) 48” Glass | Height (y) 58” Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 84” Island | 84-1/8” (2137mm) | 50-5/8” (1286mm) | 58-5/8” (1490mm) | 68-5/8” (1744mm) | 74-5/8” (1896mm) | 86-5/8” (2201mm) | 96-5/8” (2455mm) |
| | 96” Island | 96-1/8” (2442mm) | | | | | | |
| | 108” Island | 108-1/8” (2747mm) | | | | | | |
| | 120” Island | 120-1/8” (3052mm) | | | | | | |
| | 132” Island | 132-1/8” (3356mm) | | | | | | |
| Category 3 | 144” Island | 144-1/8" (3661mm) | | | | | | |
| | 156” Island | 156-1/8" (3966mm) | | | | | | |
| | 168” Island | 168-1/8" (4271mm) | | | | | | |
| | 180” Island | 180-1/8" (4576mm) | | | | | | |
| | 192” Island | 192-1/8" (4880mm) | | | | | | |

## *Typical Framing Dims. – Full Bay Configuration*

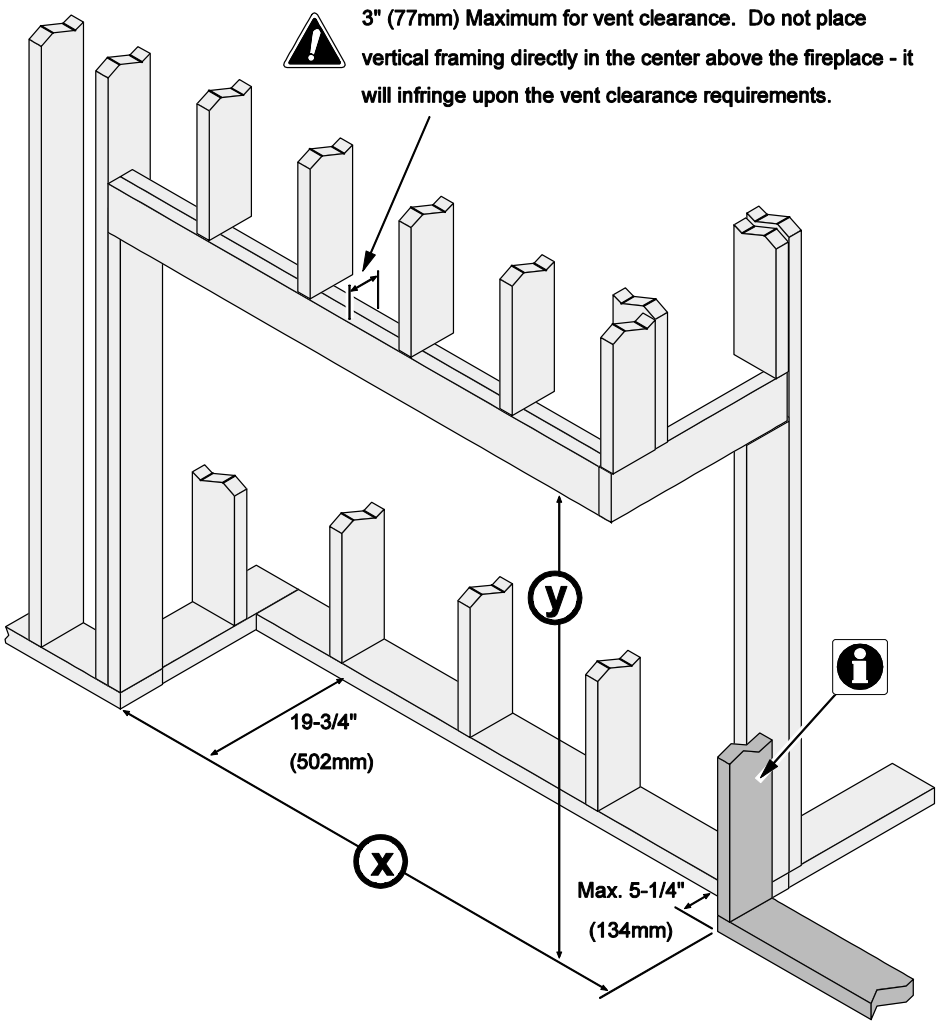



**Recessing the Back Edge of the Fireplace (Optional)**

Installers may wish to recess the back of the fireplace to allow for a more shallow installation, placing the side glass next to the side wall(s). If you decide to recess the back of the fireplace, make sure to accommodate the framing and facing dimensions. The back edge of the glass extends to a location 5.75" (147mm) from the back of the fireplace (see dimensions page for details). Framing for this type of installation may protrude forward from the back wall of the opening a maximum of 5.25" (134mm) when using ½" (13mm) drywall. Consult the dimensions page and plan your installation prior to framing the opening.

| | Version | Width (x) | Height (y) 12" Glass | Height (y) 20" Glass | Height (y) 30" Glass | Height (y) 36" Glass | Height (y) 48" Glass | Height (y) 58" Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 84" Full Bay | 84-1/8" (2137mm) | 50-5/8" (1286mm) | 58-5/8" (1490mm) | 68-5/8" (1744mm) | 74-5/8" (1896mm) | 86-5/8" (2201mm) | 96-5/8" (2455mm) |
| | 96" Full Bay | 96-1/8" (2442mm) | | | | | | |
| | 108" Full Bay | 108-1/8" (2747mm) | | | | | | |
| | 120" Full Bay | 120-1/8" (3052mm) | | | | | | |
| | 132" Full Bay | 132-1/8" (3356mm) | | | | | | |
| Category 3 | 144" Full Bay | 144-1/8" (3661mm) | | | | | | |
| | 156" Full Bay | 156-1/8" (3966mm) | | | | | | |
| | 168" Full Bay | 168-1/8" (4271mm) | | | | | | |
| | 180" Full Bay | 180-1/8" (4576mm) | | | | | | |
| | 192" Full Bay | 192-1/8" (4880mm) | | | | | | |

## *Typical Framing Dims – Right-Sided Corner*

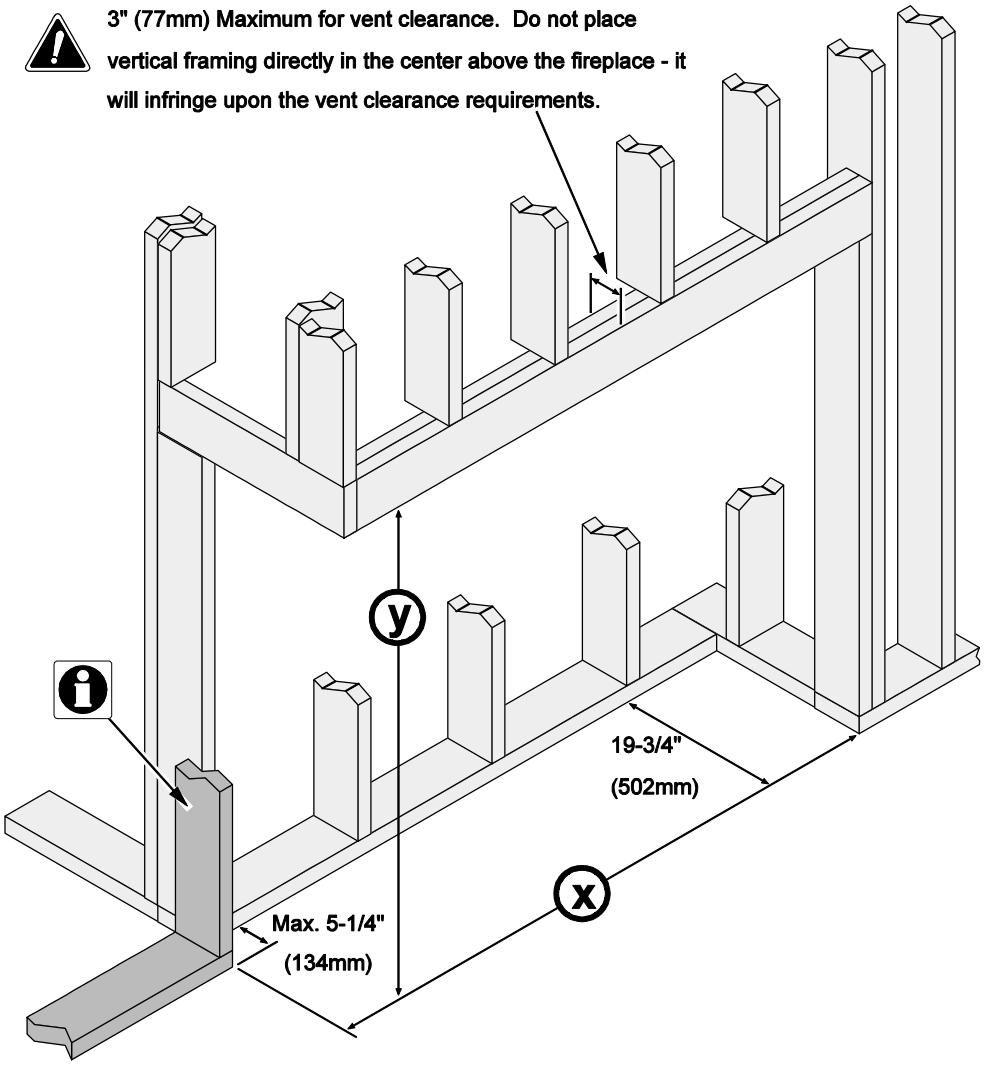



**Recessing the Back Edge of the Fireplace (Optional)**

Installers may wish to recess the back of the fireplace to allow for a more shallow installation, placing the side glass next to the side wall(s). If you decide to recess the back of the fireplace, make sure to accommodate the framing and facing dimensions. The back edge of the glass extends to a location 5.75" (147mm) from the back of the fireplace (see dimensions page for details). Framing for this type of installation may protrude forward from the back wall of the opening a maximum of 5.25" (134mm) when using ½" (13mm) drywall. Consult the dimensions page and plan your installation prior to framing the opening.

| | Version | Width (x) | Height (y) 12" Glass | Height (y) 20" Glass | Height (y) 30" Glass | Height (y) 36" Glass | Height (y) 48" Glass | Height (y) 58" Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 78" Right Side | 79-1/2" (2020mm) | 50-5/8" (1286mm) | 58-5/8" (1490mm) | 68-5/8" (1744mm) | 74-5/8" (1896mm) | 86-5/8" (2201mm) | 96-5/8" (2455mm) |
| | 90" Right Side | 91-1/2" (2325mm) | | | | | | |
| | 102" Right Side | 103-1/2" (2629mm) | | | | | | |
| | 114" Right Side | 115-1/2" (2934mm) | | | | | | |
| | 126" Right Side | 127-1/2" (3239mm) | | | | | | |
| Category 3 | 138" Right Side | 139-1/2" (3544mm) | | | | | | |
| | 150" Right Side | 151-1/2" (3849mm) | | | | | | |
| | 162" Right Side | 163-1/2" (4153mm) | | | | | | |
| | 174" Right Side | 175-1/2" (4458mm) | | | | | | |
| | 186" Right Side | 187-1/2" (4763mm) | | | | | | |

## *Typical Framing Dims – Left-Sided Corner*




**Recessing the Back Edge of the Fireplace (Optional)**

Installers may wish to recess the back of the fireplace to allow for a more shallow installation, placing the side glass next to the side wall(s). If you decide to recess the back of the fireplace, make sure to accommodate the framing and facing dimensions. The back edge of the glass extends to a location 5.75" (147mm) from the back of the fireplace (see dimensions page for details). Framing for this type of installation may protrude forward from the back wall of the opening a maximum of 5.25" (134mm) when using ½" (13mm) drywall. Consult the dimensions page and plan your installation prior to framing the opening.

| | Version | Width (x) | Height (y) 12" Glass | Height (y) 20" Glass | Height (y) 30" Glass | Height (y) 36" Glass | Height (y) 48" Glass | Height (y) 58" Glass |
|---|---|---|---|---|---|---|---|---|
| Category 2 | 78" Left Side | 79-1/2" (2020mm) | 50-5/8" (1286mm) | 58-5/8" (1490mm) | 68-5/8" (1744mm) | 74-5/8" (1896mm) | 86-5/8" (2201mm) | 96-5/8" (2455mm) |
| | 90" Left Side | 91-1/2" (2325mm) | | | | | | |
| | 102" Left Side | 103-1/2" (2629mm) | | | | | | |
| | 114" Left Side | 115-1/2" (2934mm) | | | | | | |
| | 126" Left Side | 127-1/2" (3239mm) | | | | | | |
| Category 3 | 138" Left Side | 139-1/2" (3544mm) | | | | | | |
| | 150" Left Side | 151-1/2" (3849mm) | | | | | | |
| | 162" Left Side | 163-1/2" (4153mm) | | | | | | |
| | 174" Left Side | 175-1/2" (4458mm) | | | | | | |
| | 186" Left Side | 187-1/2" (4763mm) | | | | | | |

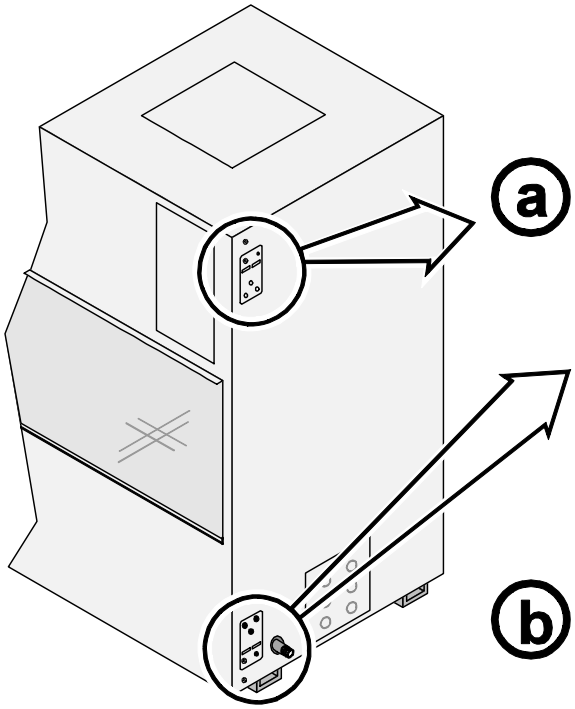
## *Nailing Brackets*

**Side Nailing Brackets**

The side nailing brackets secure the fireplace to the side framing. The number of brackets vary depending upon configuration (island configurations do not have side nailing brackets).

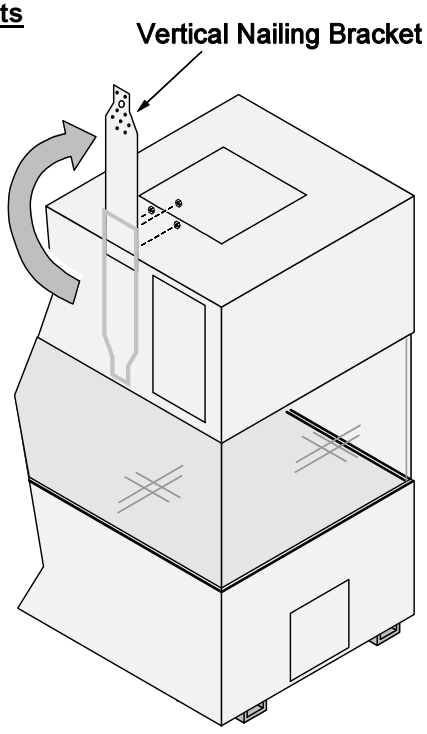
These brackets are shipped flat against the side of the fireplace (see “a” to the right). Remove the 2 mounting screws, position the bracket and secure (“b”). After the fireplace is in place, bend the bracket back ( “c”) and secure it to the framing with screws (“d”).

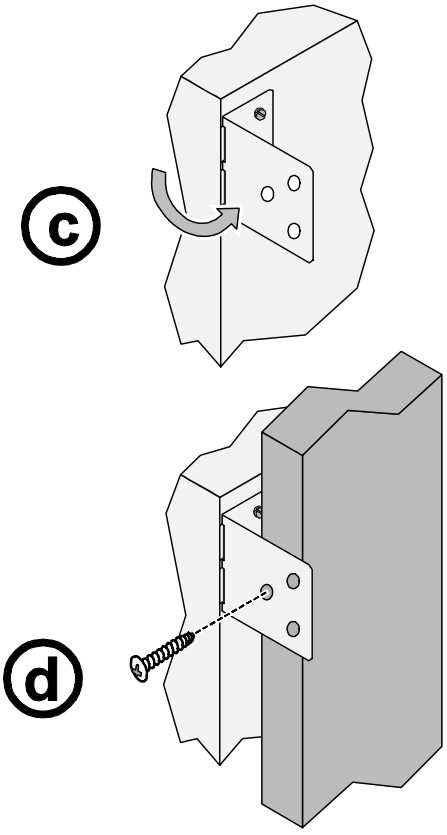
**NOTE**: Make sure the fireplace is square and plumb before securing to the framing (use shims if necessary).




**Vertical Nailing Brackets**

Some configurations include vertical nailing brackets (Corner, Bay, etc.). See the illustration to the right for details.




**The vertical nailing bracket is shipped facing downwards. Remove the nuts holding it in place then re-attach it in the vertical position. The bracket may then be secured to the framing above fireplace.**

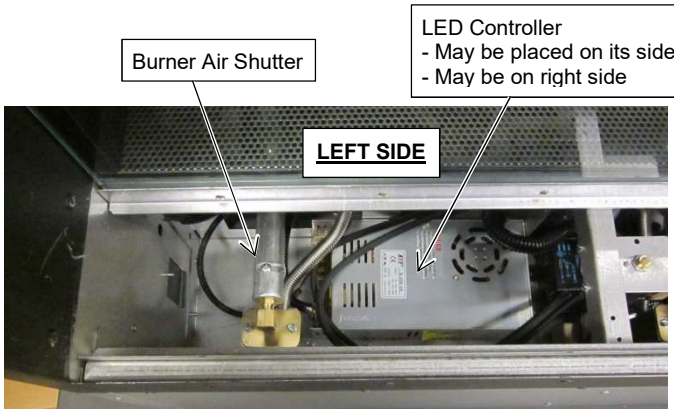
## *Accessing Internal Components*

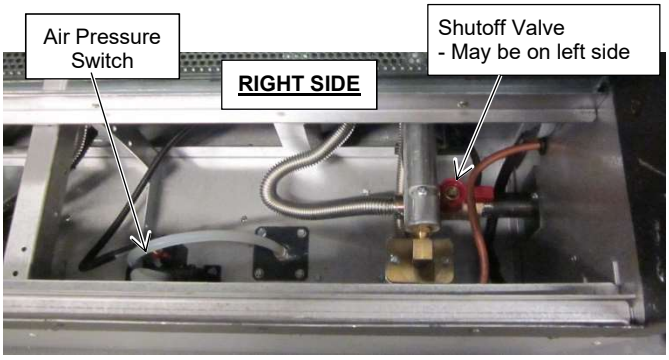
Most internal components can be accessed by removing the front glass pane and intake air channel media tray (see instructions below). If more extensive access is required, see "burner removal" on the following page.

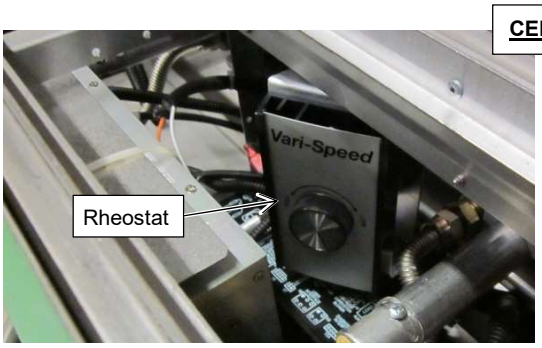
-- Turn off gas to the fireplace prior to accessing internal components to prevent accidental ignition.
-- Shut off electricity to the fireplace to protect internal circuits.

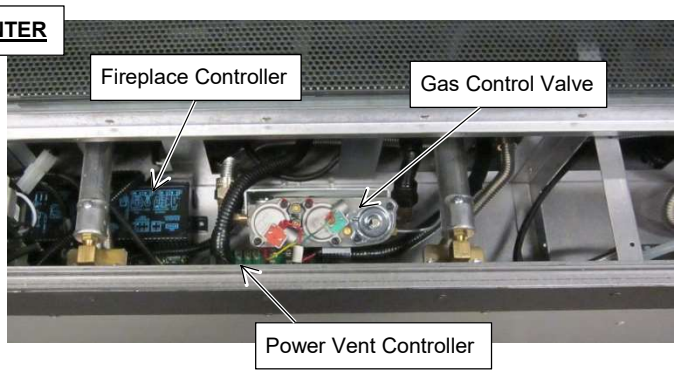
Remove the front outer glass pane (see page 93). Remove the intake air channel media tray.

At this point most of the internal components may be accessed (see descriptions below).




### Internal Shut Off Valve Access

The internal shutoff is accessed following the directions above. The valve is positioned near the gas inlet (left, right, or bottom).

**NOTE**: The shut off valve must be closed while pressure testing the gas line leading to the fireplace.

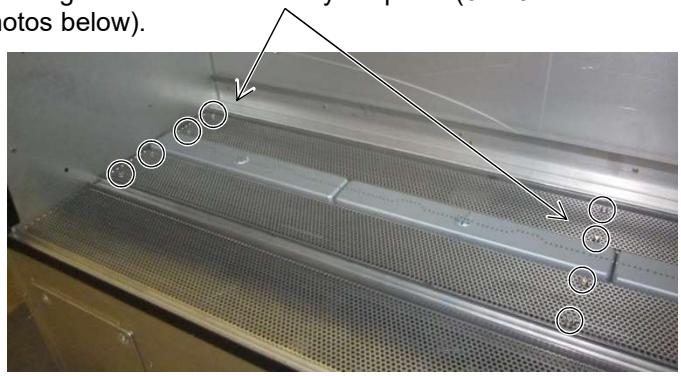
## Burner Removal

Burner removal is only required if extensive access is needed (joining category 2+ units, glass panes on indoor/outdoor units, etc.). Follow the directions below to remove the burners.

a) Follow the directions on the previous page for accessing internal components (remove intake air channel media tray).

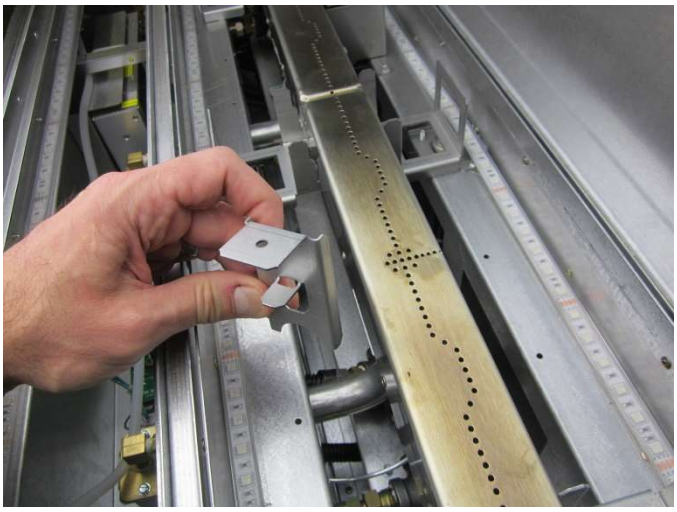
b) Remove the front inner glass pane (see page 93).

c) Remove the screws holding the burner media trays in place (6 to 8 screws for each tray depending upon length – see photos below).




d) Remove the media trays (use a flat screwdriver to pry up one edge). Make sure to notate the position of the trays when removing. The screw holes will only line up if the tray is properly replaced.

e) Remove the burner lock-down bracket (it is held in place with a single screw). .



f) Lift the burner up and out of the fireplace. Remove the burner supports.

## *Gas Line Requirements*

**MAKE SURE YOU ARE SUPPLYING AN ADEQUATE SUPPLY OF GAS (NG OR LP)**

This fireplace, depending upon configuration, consumes a large amount of BTUs. Make sure your gas line is properly sized to provide an adequate supply of gas.

**MASSACHUSETTS INSTALLATIONS - WARNING:**

THIS PRODUCT MUST BE INSTALLED BY A LICENSED PLUMBER OR GAS FITTER WHEN INSTALLED WITHIN THE COMMONWEALTH OF MASSACHUSETTS.

OTHER MASSACHUSETTS CODE REQUIREMENTS:

- Flexible connector must not be longer than 36 inches.
- Shutoff valve must be a "T" handle gas cock.
- Only direct vent sealed combustion products are approved for bedrooms or bathrooms.
- Fireplace dampers must be removed or welded in the open position prior to the installation of a fireplace insert or gas log.
- A carbon monoxide (CO) detector is required in the same room as the appliance.

- The gas line must be installed in accordance with all local codes and the requirements listed below. In the absence of local codes, follow ANSI 223.1 in US/Canada or AS/NZS 5601.1 in Australia.
- The fireplace and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPA). For pressures under 1/2 psig (3.5 kPA), isolate the gas supply piping by closing the manual shutoff valve.
- Leak test all gas line joints and the gas control valve prior to and after starting the fireplace.
- The fireplace has an internal shutoff valve. An additional shutoff valve is required. It must be accessible and within 6' of the fireplace.

### Fuel

- This fireplace is designed either for natural gas or for propane (but not for both).

### Gas Line Connection

- Installation must be performed by a qualified installer, service agency or the gas supplier (In Massachusetts a licensed plumber/gasfitter).
- Gas inlet size - 3/4" MPT

### Gas Inlet Pressure

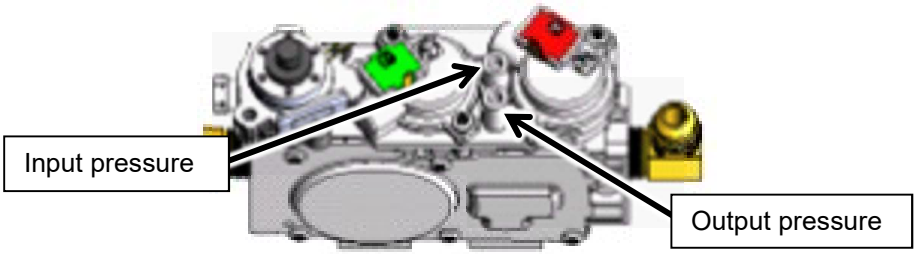
| | Maximum Input Pressure | Minimum Input Pressure |
|---|---|---|
| **Natural Gas** | 7" W.C. (1.74 kPA) | 5.5" W.C. (1.37 kPA) |
| **Propane** | 13" W.C. (3.23 kPA) | 11" W.C. (2.74 kPA) |

- If the pressure is not sufficient, make sure the piping used is large enough, the supply regulator is adequately adjusted, and the total gas load for the residence does not exceed the amount supplied.
- The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the input pressure listed above. Contact the local gas supplier if the regulator is at an improper pressure.

### Directions for Connecting a Gas Pressure Test Gauge

The gas control valve (shown to the left) has two accessible ports for testing line pressure and output pressure. Loosen the brass screw on either test port and place a 5/16" i.d. rubber or plastic tubing over the tapered test port. Connect the tubing to the test gauge.

**WARNING**: The brass screw must be tightened after testing to prevent gas leakage.

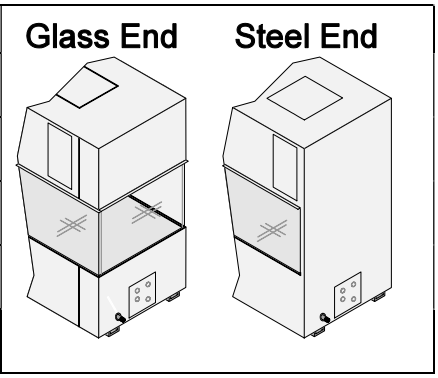


## Gas Inlet Location

Gas inlet is determined by fireplace configuration and how the fireplace was ordered. Refer to the dimensions pages for the configuration being used to determine what options are available (pages 7 through 12). When ordering the fireplace, the gas inlet is either from the side (left or right) or from the base (left or right).

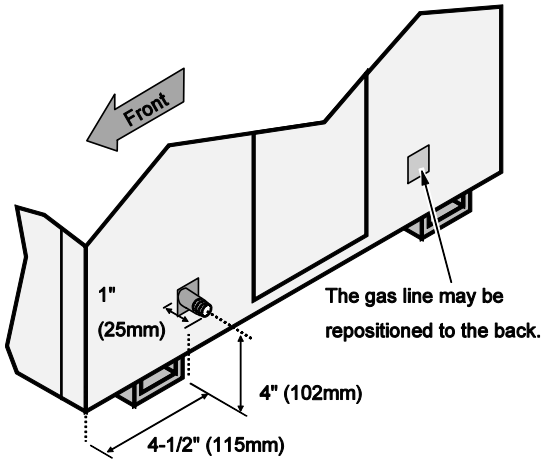
Gas inlet dimensions are shown below. Make sure to refer to the end style being used.

| Type of Fireplace | Type of Ends |
|---|---|
| 1-Sided | Two Steel Ends |
| See Through | Two Steel Ends |
| Pier | One Steel, One Glass End |
| Full Bay | Two Glass Ends |
| Island | Two Glass Ends |




### Gas Inlet – Steel End

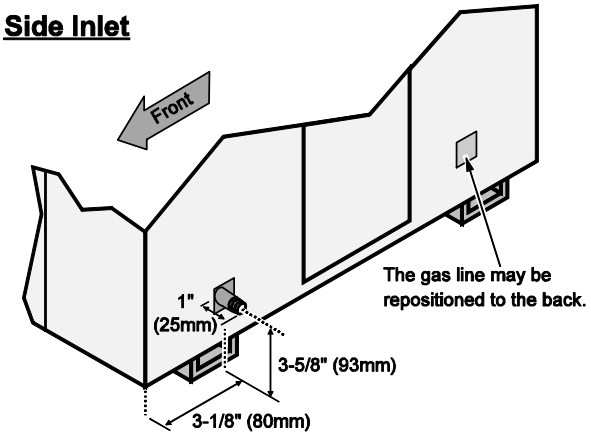
The gas inlet is on the side (not available from the base).



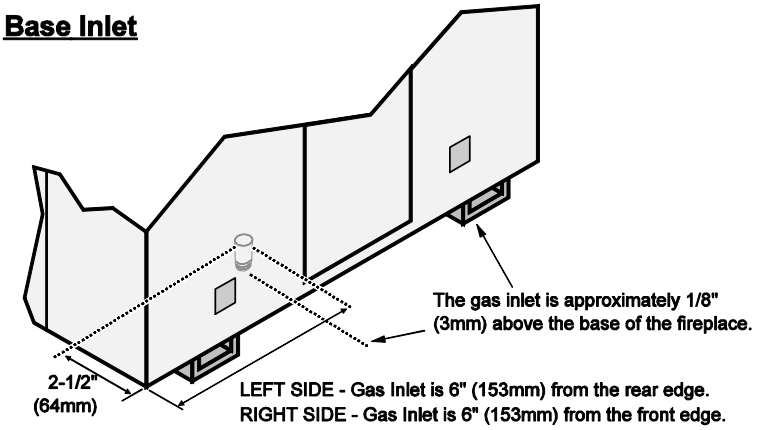

### Gas Inlet – Glass End

The gas inlet is on the side or the base. NOTE: The gas inlet on the base is only available in one location. When looking from the side, the gas inlet from the base will always be on the left.

**Side Inlet**




**Base Inlet**

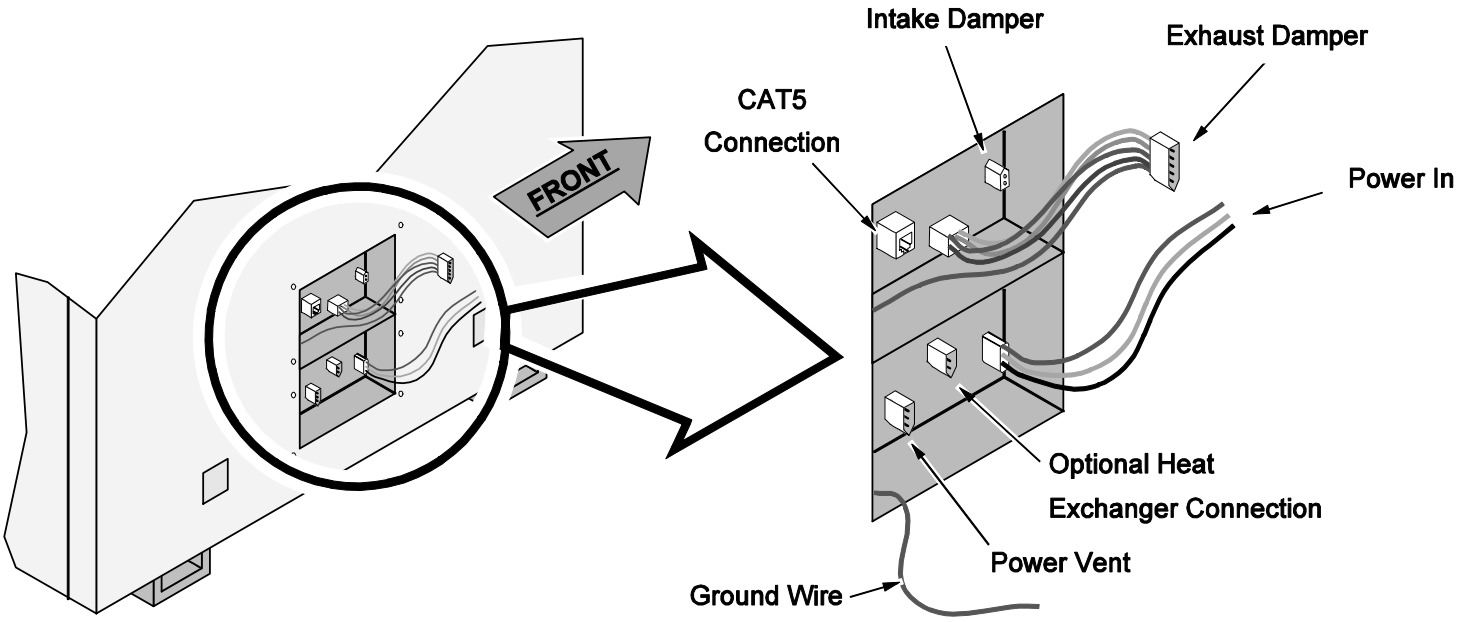


## *Electrical Junction Box*

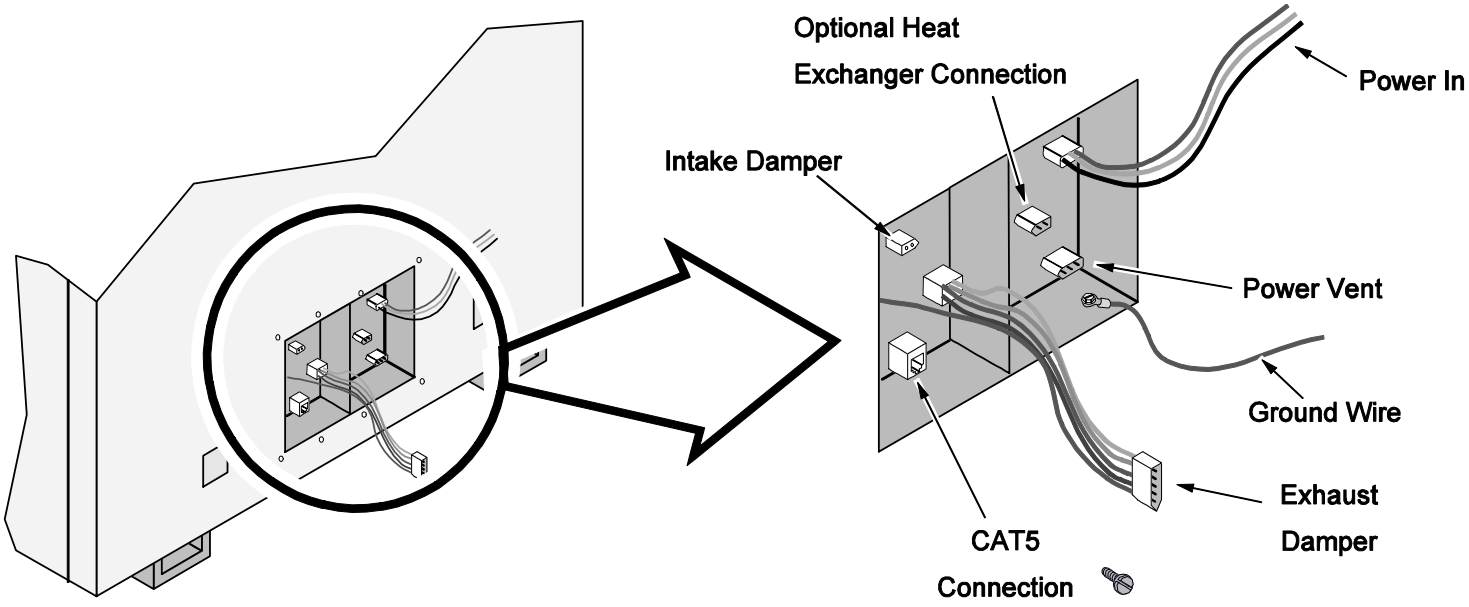
Do not connect 110-120 VAC to the gas control valve or control system of this fireplace.

- This fireplace is shipped with the electrical junction box on one side or through the base. Location of the junction box is determined at the time the fireplace is ordered and configured at the factory.
- The junction box has a low voltage and high voltage (120VAC) side.

### Junction Box Configuration – Steel Side (Single, Double-Sided, Pier, etc.)



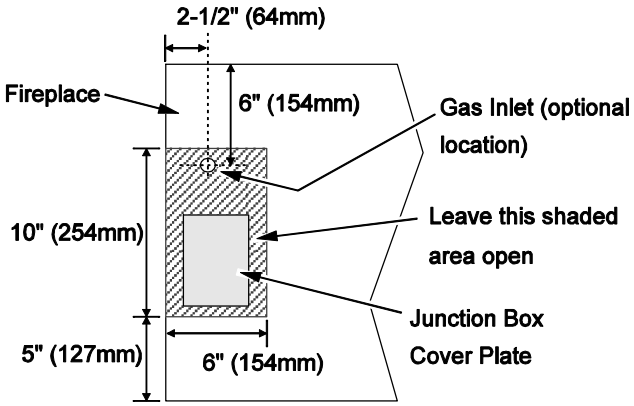

### Junction Box Configuration – Glass Side (Island, Full Bay, etc.)



## Junction Box Configuration – Glass Side Through-Base Configuration

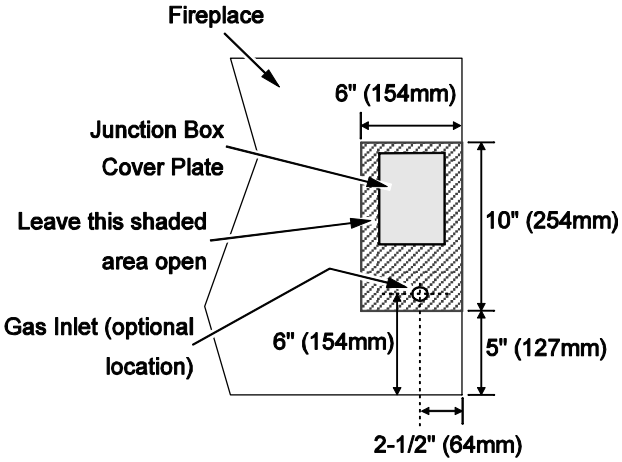
This configuration allows the electrical connections (and gas line, if desired) to be routed from below. The illustration below shows the area that should be left open to access the junction box cover plate.
**NOTE**: Make sure to confirm the "POWER IN" or "POWER VENT" labels on the wiring before making connections.

**LEFT SIDE THROUGH BASE CONFIGURATION**




**FRONT OF FIREPLACE**

**RIGHT SIDE THROUGH BASE CONFIGURATION**




**FRONT OF FIREPLACE**

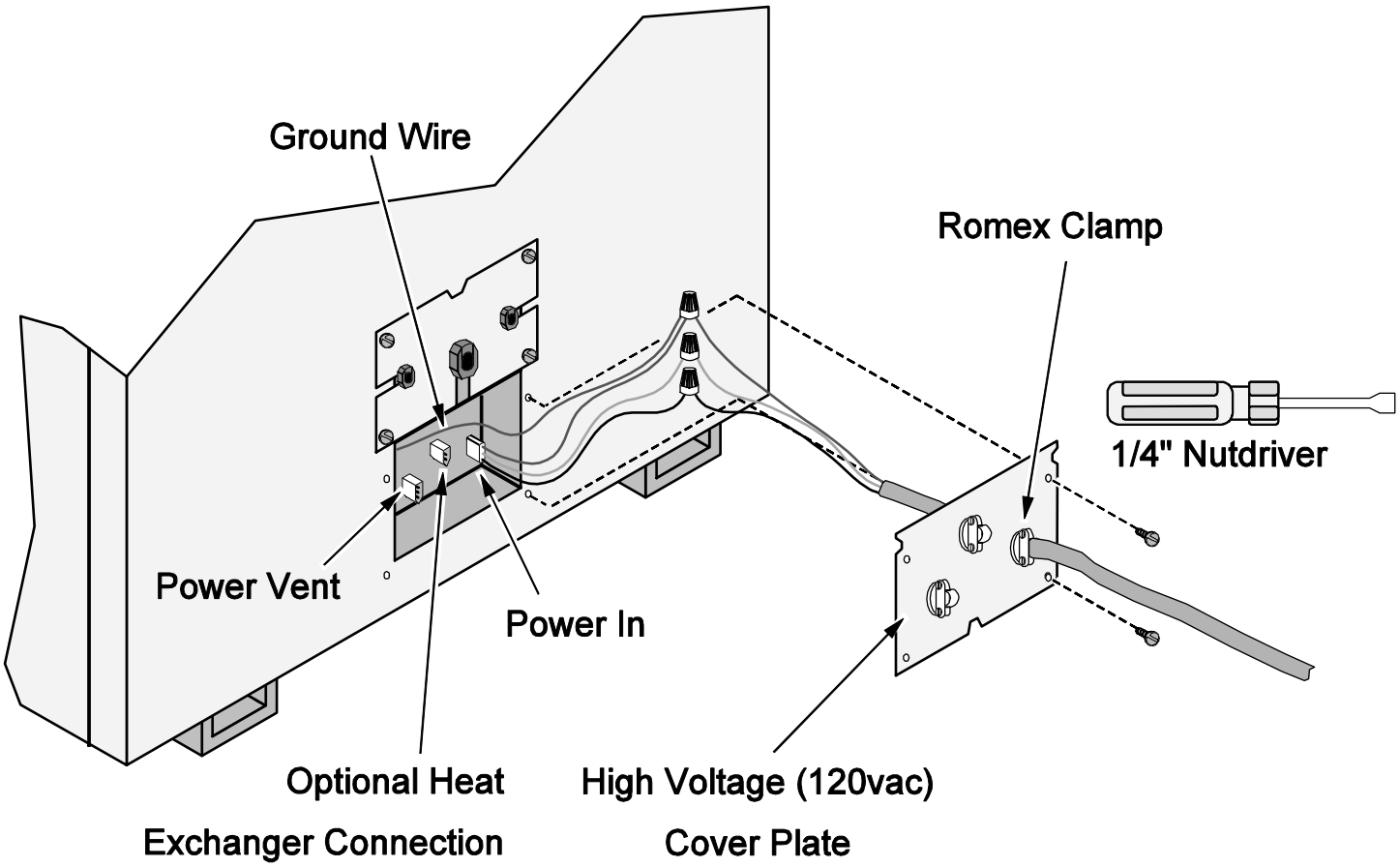
## *Electrical Input Connection*

Do not connect 110-120 VAC to the gas control valve or control system of this fireplace.

- The electrical line to the grounded harness inside the fireplace must be installed by a qualified installer and must meet all local codes.
- Make sure the household breaker is shut off prior to working on any electrical connection. Turn the breaker on only after all wiring is in place (power vent, on-off LED harness, etc.).
- The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.
- The electrical line must supply 120 Volts, 60 Hz, and 7 Amps (maximum draw). We recommend a dedicated circuit for the fireplace.
- Route the electrical connection through the cover plate and attach to the electrical input wires as shown below. **Make sure to connect the incoming ground wire to both ground wires** (one ground wire attaches to the junction box, the other leads to the molex connector).

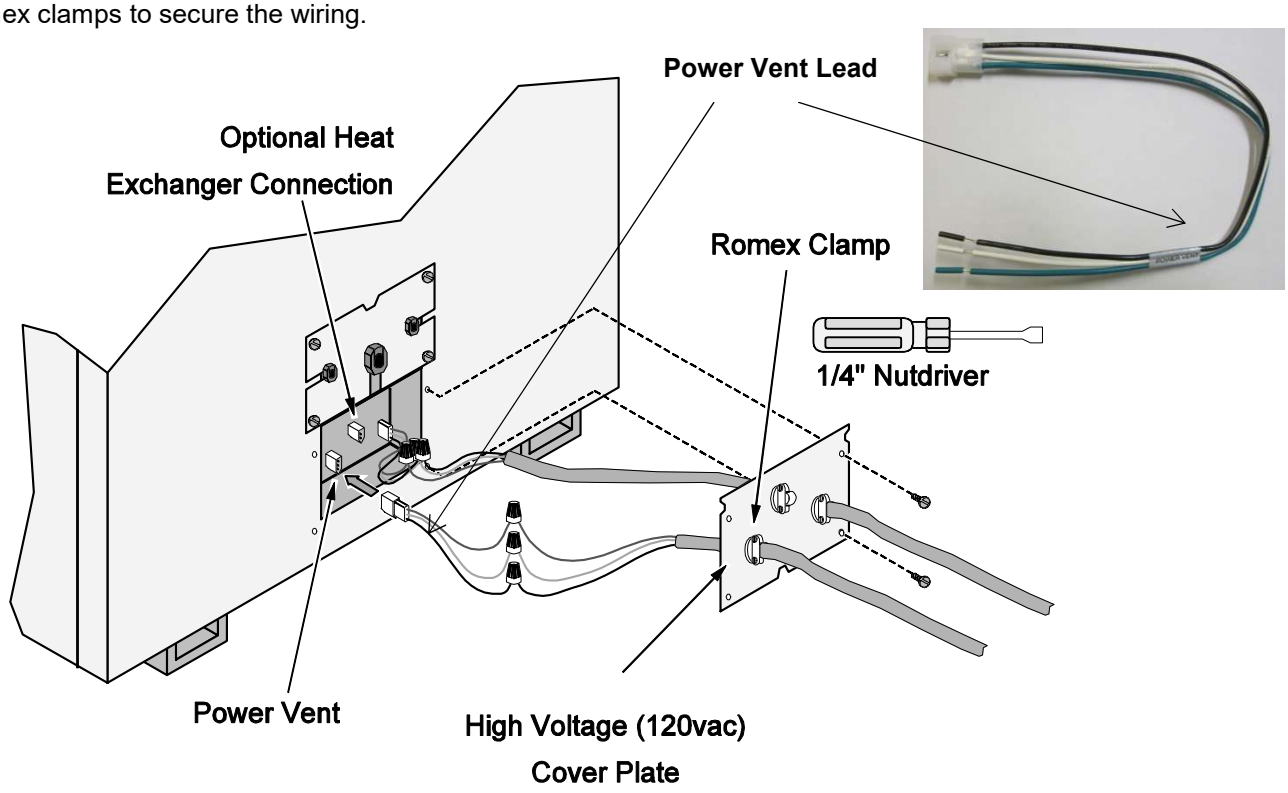
**Caution**: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

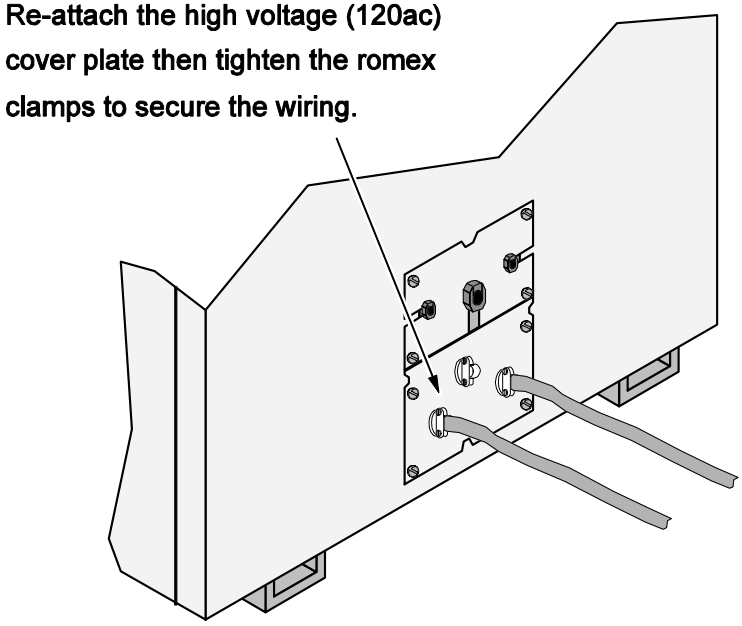
**HINT**: Keep the high voltage (120ac) cover plate disconnected until the power vent power lead is attached. Leave the romex clamps loose until the cover plate is re-attached.



## *Connecting the Power Vent Lead to the Fireplace*

- The power vent is wired to the 120v line exiting the exhaust blower rheostat. Connect a minimum 12 gauge sheathed three-wire electrical line to the power vent lead (labeled “POWER VENT”) and connect it to the molex connector on the fireplace – see illustration below. This wire is routed to the power vent assembly (see “Wiring the Power Vent Assembly” for details).
- After attaching the vent power lead, re-attach the high voltage (120ac) cover plate then tighten the romex clamps to secure the wiring.

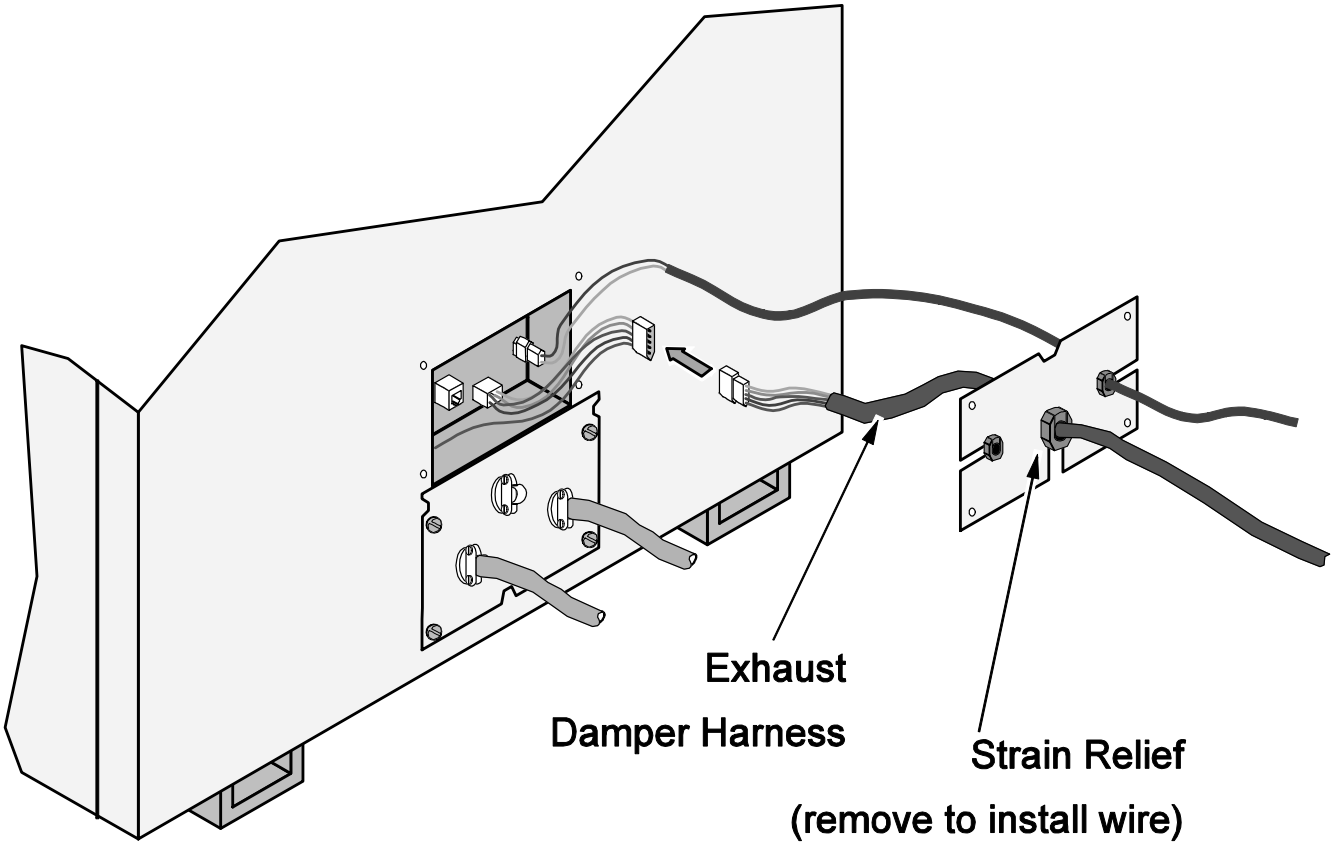


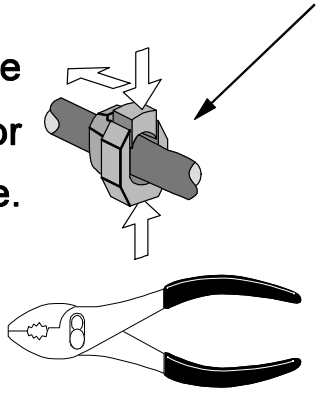
## *Connecting the Exhaust Damper Harness to the Fireplace*

- This fireplace uses a damper near the power vent blower to prevent air from flowing through the fireplace when the fireplace is off.
- The exhaust damper harness is available in various lengths (see page 19 for details).
- Route the exhaust damper harness through the cover plates and attach to the molex connector on the fireplace as shown below.

**HINT**: Keep the low voltage cover plate disconnected until all wiring to the fireplace is attached. You may also wish to leave the strain reliefs/clamps loose until the cover plate is ready to be attached.




Use pliers to compress the strain relief when inserting or removing it from the hole.



- The opposite end of the damper harness attaches to the power vent assembly (see “Wiring the Power Vent Assembly” for details).

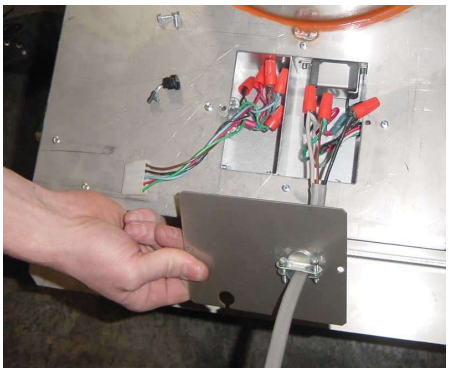
## *Wiring the Power Vent*

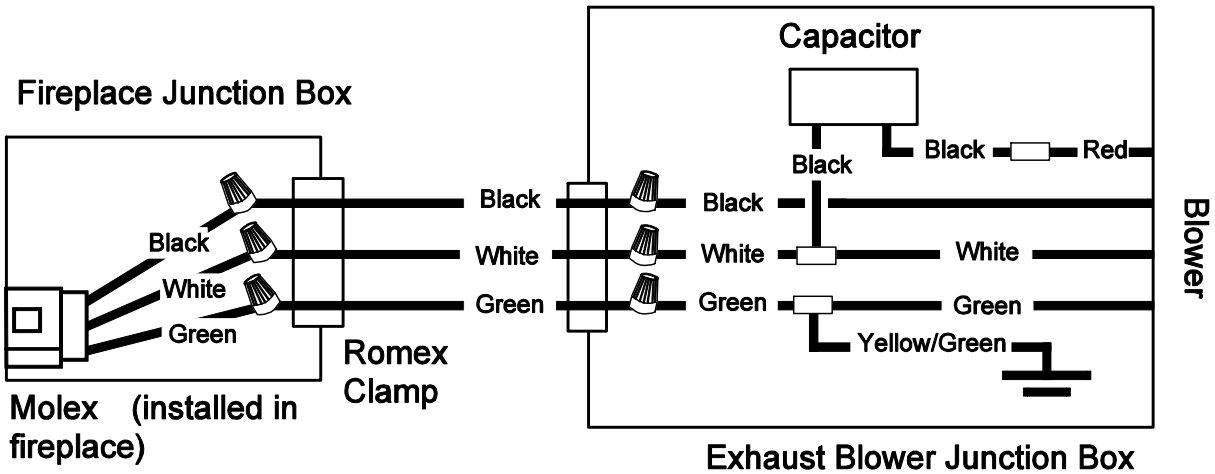
- The power vent assembly consists of a power vent and damper. Refer to the wiring diagram on page 99 for wiring details.
- Connect the power vent line (sheathed three-wire electrical line) to the capacitor and blower as shown below.

Remove the cover plate on the exhaust blower housing.

**NOTE**: the power vent termination version is shown to the right – the inline version is wired in the same manner.

Route the electrical line through the romex clamp and attach the 120v wiring as detailed in the wiring diagram below. After the cover is replaced, tighten the clamp to secure the wiring (do not over-tighten).






**WARNING - BLOWER CAPACITOR WILL RETAIN A CHARGE**

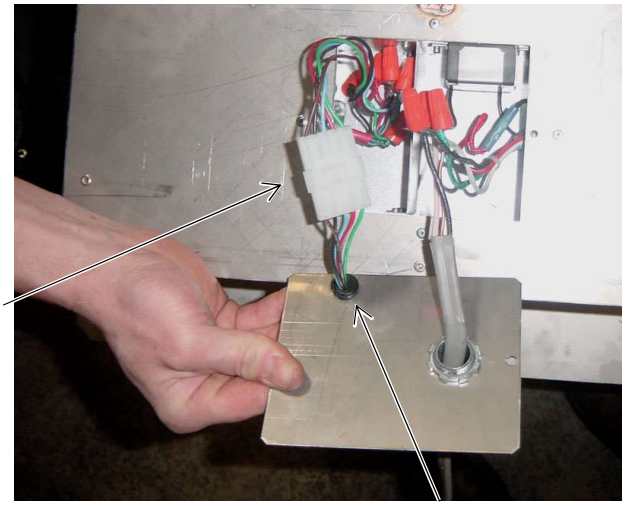
Once power is supplied to the blower capacitor, it will retain a charge for approximately 5 minutes, even after power is shut off. Take care when working with this circuit, especially with the hot (black) wire and circuit board/wiring inside the fireplace.

## *Wiring the Power Vent (continued)*

- In addition to the exhaust blower line, a low-voltage wire harness is routed from the fireplace to the damper inside the power vent assembly (see page 6 for wire lengths and part numbers).

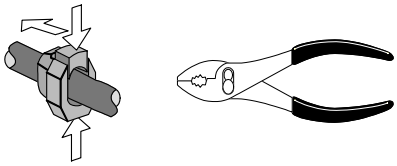
Route the exhaust damper wire harness to the junction box on the power vent assembly. Remove the junction box cover plate. Remove the strain relief from the cover plate (see illustration below to the right). Route the wires through the slot on the cover plate and replace the strain relief. Attach the molex connector from the harness to the molex connector inside the power vent assembly).

Exhaust Damper Molex Connector



Replace the junction box cover, making sure all wiring is properly inserted.

**Use pliers to compress the strain relief from the top and bottom while pushing it into the hole in the bracket.**



**Caution**: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Test blower operation after attaching the wiring (leave gas off, turn appliance on, verify blower functions correctly).

## *Connecting the Intake Damper Harness to the Fireplace*

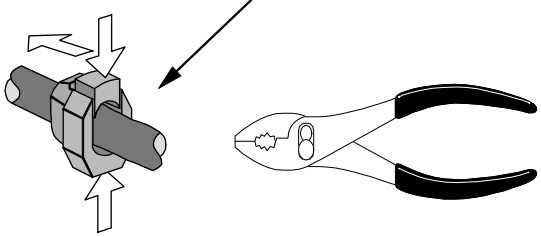
**WARNING**: DO NOT CONNECT THE INTAKE DAMPER WIRES TOGETHER (this will short the system).

- The 25' intake damper harness is shipped in the hardware box (see page 19 for details). If additional length is needed, use part 250-02295 (typically ordered when fireplace is configured) or 18 gauge wire.
- Route the intake damper harness through the cover plate and attach to the molex connector on the fireplace as shown below. The other end is attached to the damper(s).

**HINT**: Keep the low voltage cover plate disconnected until all wiring to the fireplace is attached. You may also wish to leave the strain reliefs/clamps loose until the cover plate is ready to be attached.




Use pliers to compress the strain relief when inserting or removing it from the hole.

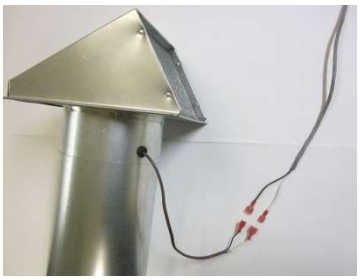


## *Wiring the Intake Damper*

**WARNING**: DO NOT CONNECT THE INTAKE DAMPER WIRES TOGETHER (this will short the system).

**ROUTE THE WIRES TO THE AIR INTAKE LOCATION EVEN IF DAMPER(S) ARE NOT USED**
Intake dampers are strongly recommended in cold areas (see page 68). Even if dampers are not being installed, we recommend routing the intake damper wires to the intake location. This allows dampers to be installed at a later time if desired (to reduce air infiltration, humid glass, etc.).

- Route the intake damper harness to the air intake location.
- For external dampers (98900093, 98900094), attach the quick-connects from the intake damper harness to the quick connects on the intake damper (see photo to the right). If using multiple intakes, attach the intake damper wire splitter (see below).



- For internal dampers (98900078, 98900078), remove the quick-connects from the intake damper harness and attach wires directly to the terminal blocks (see photo to the right and page 72 for details). If using multiple dampers, run 18 gauge wire between the terminal blocks.

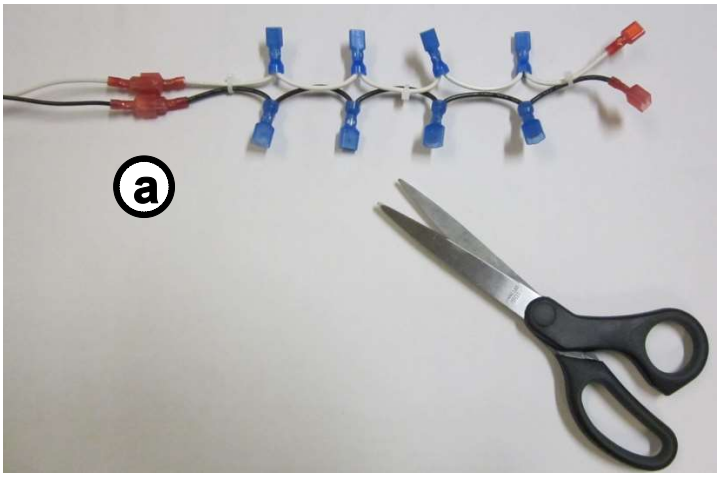
### Intake Damper Wire Splitter – Used For Installations Using Multiple External Dampers

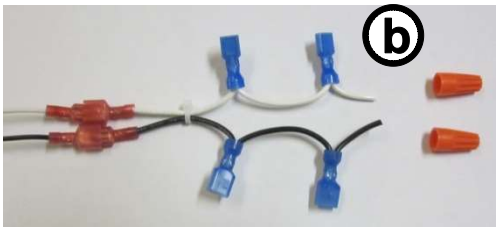
The intake damper wire splitter (included with Category 2+) is used to connect multiple external dampers. This splitter attaches to the intake damper harness and allows for up to five dampers to be attached to the harness (use two splitters if additional dampers are used). The damper has extra connections that may not be used. To insulate these connections, follow the directions below.

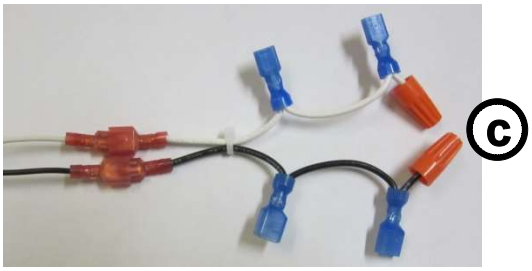
a) Attach the splitter to the intake damper harness (make sure power is off to the fireplace).

b) Cut off the excess connectors (in this example the wiring is set up for 2 dampers).

c) Attach the included wire nuts to the exposed wire.



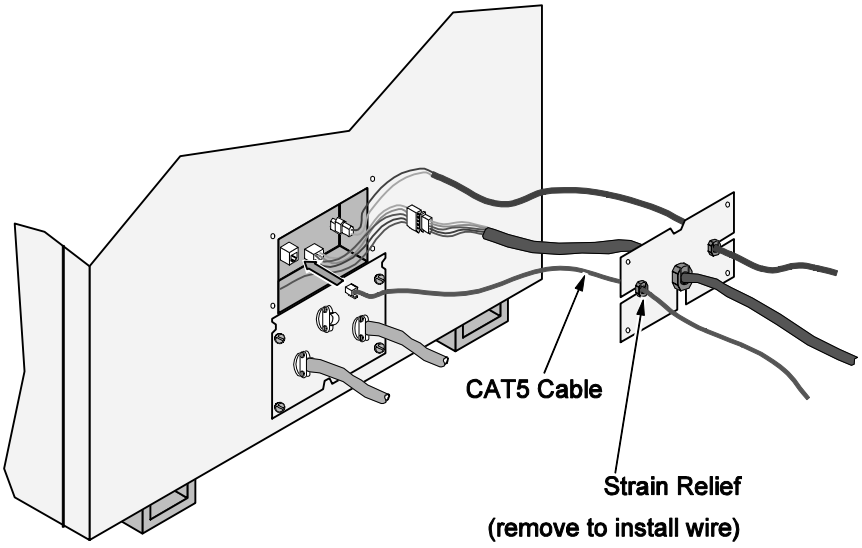



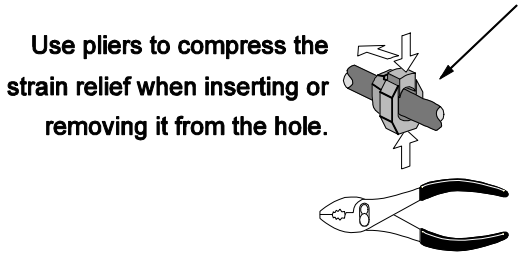
## *Connecting the CAT5 Harness to the Fireplace*

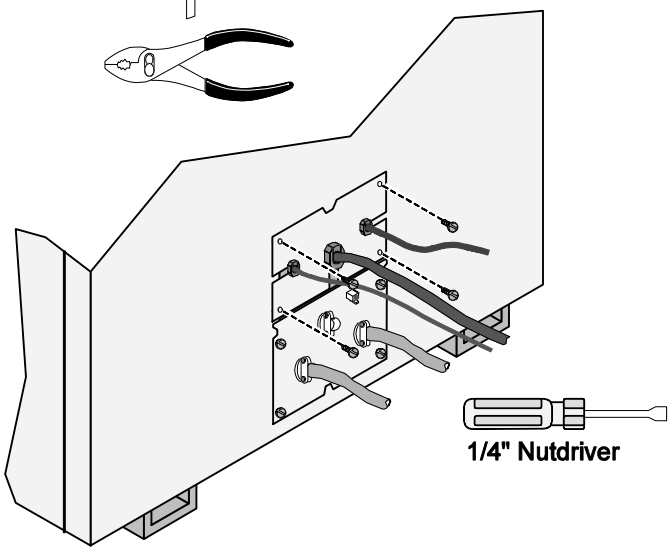
Do not connect 110-120 VAC to the gas control valve or wiring system of this fireplace.

- The CAT5 harness is available in various lengths (see page 19 for details).
- Route the CAT5 harness through the cover plates and attach to the CAT5 connector on the fireplace as shown below.

**HINT**: Keep the low voltage cover plate disconnected until all wiring to the fireplace is attached. You may also wish to leave the strain reliefs/clamps loose until the cover plate is re-attached.




- The opposite end of the On-Off LED harness attaches to the on-off switch and LED controller (see “Installing the On-Off Switch and LED Controller” on the following page for details).
- After attaching the on-off and LED harness, re-attach the low voltage () cover plate then tighten the Romex clamp to secure the wiring.

## *Installing the TouchSmart Controller*

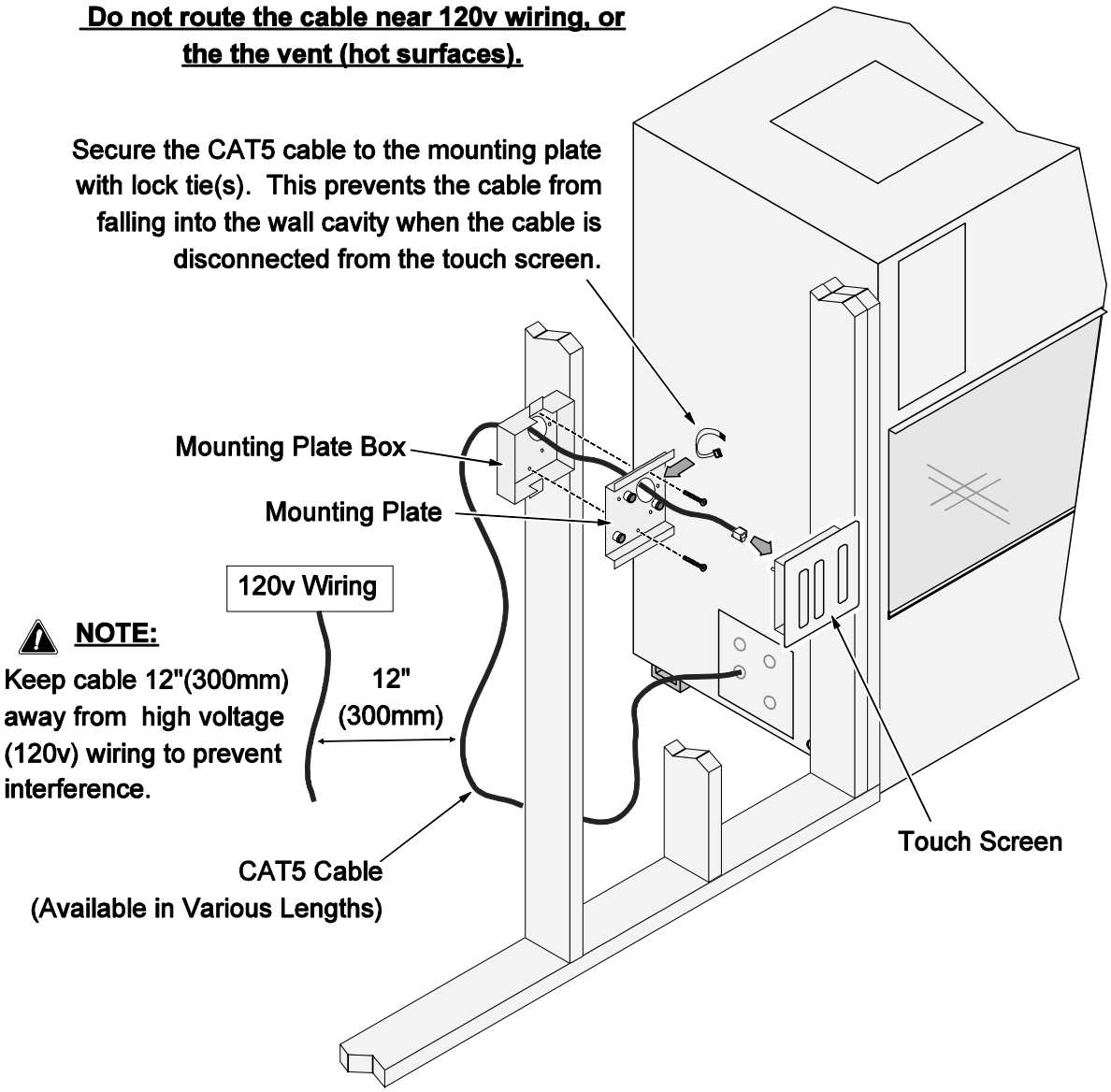
Do not connect 110-120 VAC to the gas control valve or wiring system of this fireplace.

- The included junction box is used to mount the TouchSmart controller (see page 64). Mount the junction box in an accessible location to allow the user to operate the fireplace.
- Route the CAT5 harness to the junction box (harness is available in various lengths – see page 19). Route the wire through the junction box and attach to the TouchSmart controller.

  NOTE: Install 3" to 6" of slack in the harness wires to allow for switch/controller access and removal.

Keep the cable 12" (300mm) away from high voltage (120v) wiring to prevent interference.

- The TouchSmart controller is held in junction box using (3) magnets.




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

## *TouchSmart Mounting Box*

There are two options for mounting the TouchSmart box that houses the controls for the fireplace. The retrofit box option is used when the wall is already finished with drywall or the desired location is not close to a framing member. The second option (and most commonly used) is the New install box. This option is best used prior to drywall installation. The two options for the Mounting box installation are detailed below.

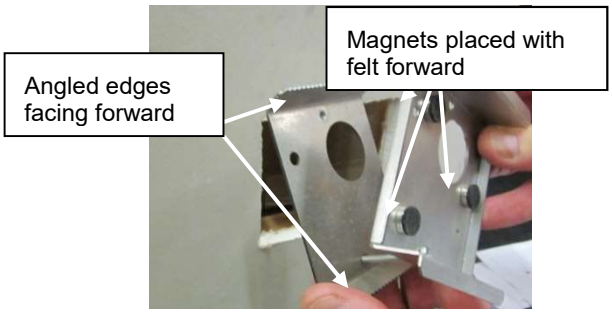
Identify an appropriate location for the control box. The location should have a clear path for the harness to be routed from the fireplace and be within reach of the length of CAT5 cable ordered with the fireplace.

**NOTE:** Make sure to route the CAT5 cable to the Mounting Box and secure with zip tie(s). If drywall installation or other construction is occurring after the box installation, mask the Mounting Box to prevent debris from accumulating.

- Mounting Plate Hardware
  - TouchSmart Mounting Plate
  - Mounting Plate Box – New Const.
  - Mounting g Plate Back Plate – Retrofit
- TouchSmart Hardware
  - (6) Lock Ties (for wiring)
  - (3) Round magnets with felt pads
  - (2) #8 Self-Drilling Screws
  - (2) 8-32 x 1.5” Screws (for Mtg Plate)

### *Retrofit Box Installation*

- Determine a location between studs.
- Cut a 4”W x 3-5/8”H hole in the drywall.
- Attach the three magnets with felt pads to the TouchSmart Mounting Plate as seen in the picture below.
- Loosely attach the Mounting Back Plate to the Touch Screen Mounting Plate using one of the included 8-32 X 1.5” screws (**make the large hole in the on the Mounting Plate and box line up**). The angled edges of the Back Plate should face forward.

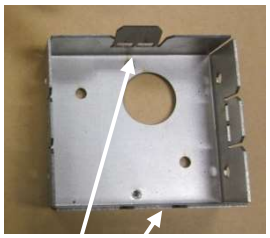



- Insert the Backing Plate into the hole in the drywall. **Make sure that the large hole is in the upper right hand corner**.

- Install the second screw through the Mounting Plate into the Backing Plate. Tighten both screws until the Mounting Plate is secure against the drywall.

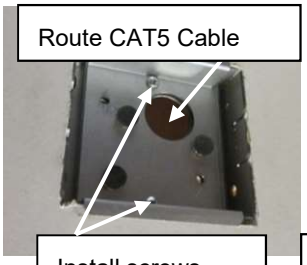
### New Install Box Installation

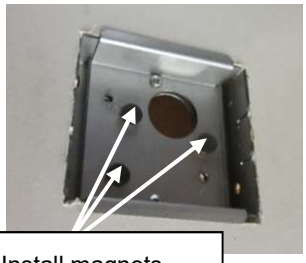
- Bend the tabs outward on the New Install Mounting Box (use 2 or 3 tabs, depending upon mounting position). Attach the box to the framing (either from side or bottom). **Make sure that the large hole is in the upper right hand corner and the tabs of the box are flush with framing**.





- The drywall must be installed prior to continuing to step 3 below. When installed, the drywall will require a 4”W x 3-5/8”H square hole for the mounting box.
- Attach the three magnets with felt pads to the Mounting Plate as shown below. Attach the Mounting Plate to the box with the two screws (**make the large hole in the on the Mounting Plate and box line up**). The Mounting Plate will fit flush against the drywall.



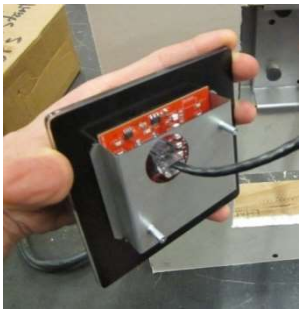



- Route the wire harness through the large hole in the back of the mounting plate.

**NOTE:** We recommend that you connect the wire harness to the TouchSmart Mounting Plate using zip ties to ensure it does not fall into the wall cavity.

- Attach the CAT5 wire harness port on the back of the TouchSmart controller and gently push the controller into the box. Push additional cable back through the hole in the Mounting Plate as you insert the back of the TouchSmart controller into the mounting plate. The pins on the back of the controller align it to the box. The magnets hold it in place.

**NOTE**: Do Not install the TouchSmart controller until sheetrock installation and finish has been completed. After the wall is finished, remove any protective covering on the end of the CAT5 cable and connect the



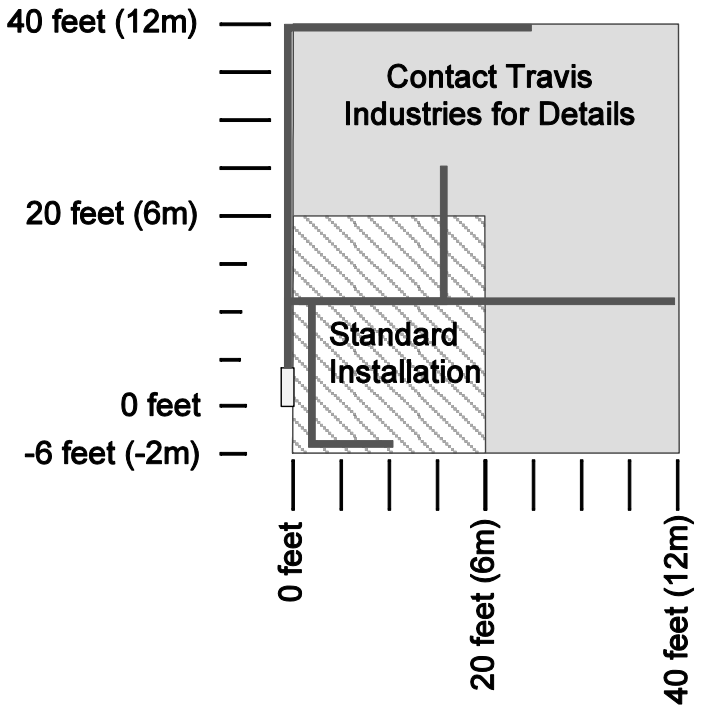
## *Air Intake Requirements*

The fireplace requires air intake(s) to supply combustion air to the firebox. Requirements for the air intake(s) are listed below:

- The air intake(s) must be routed to the exterior of the structure or to an area that freely conveys air from the outside. Do not draw air from a garage or other area that may be subject to fumes or airborne particles.

### Air Intake Ducts

- Must use 6” or 8” UL 181 duct or better (Class 1 or Class 0 – capable of negative pressure reading of 1” water column). Consult your local building department for details on duct installation and requirements in your area. We strongly recommend the use of insulated ducting such as Master Flow™ which is carried at Home Depot™ and other stores that carry HVAC products (insulated ducting is typically R4.2 or greater with vapor barrier). Insulated ducting prevents condensation from forming on the exterior of the ducts or fireplace. This is especially important when the ducts are routed through heated areas that may be subject to humidification.
- The chart below details air intake maximum height and length. If the intake falls within the “Standard Installation” range shown below, the air intakes may be 6” diameter. If the intake falls within the shaded range, you must contact Travis Industries to verify the installation and determine the correct configuration (you may need to use 8” diameter duct).




- Connect the air intake ducts to the fireplace, damper (if used), and termination using a suitable securing method (tape, silicone, etc.). Long duct runs must be properly secured.
- We recommend the use of intake dampers. If you do not use dampers, we recommend you route the intake damper wires to the intake location so dampers may be installed at a later time.
- Each air intake termination must be positioned so it does not become blocked by snow, vegetation, or other material. It must be installed with a suitable cap that prevents water or debris from entering. The termination (and damper, if used) must be positioned so it may be accessible for service and verification. If air intake is positioned on a wall, make sure to slope the intake down slightly to prevent water intrusion.
- The air intake termination must be flashed and sealed to meet local building code requirements.

## Intake Dampers

**WARNING**:
DO NOTE CONNECT THE INTAKE DAMPER WIRES TOGETHER – THIS WILL SHORT THE SYSTEM.

- Provisions for an intake damper(s) are included with this fireplace (24V AC wires). Intake dampers are recommended for cold areas or locations where air infiltration must be minimized. Connect the intake duct to the damper and route to the termination (if applicable).

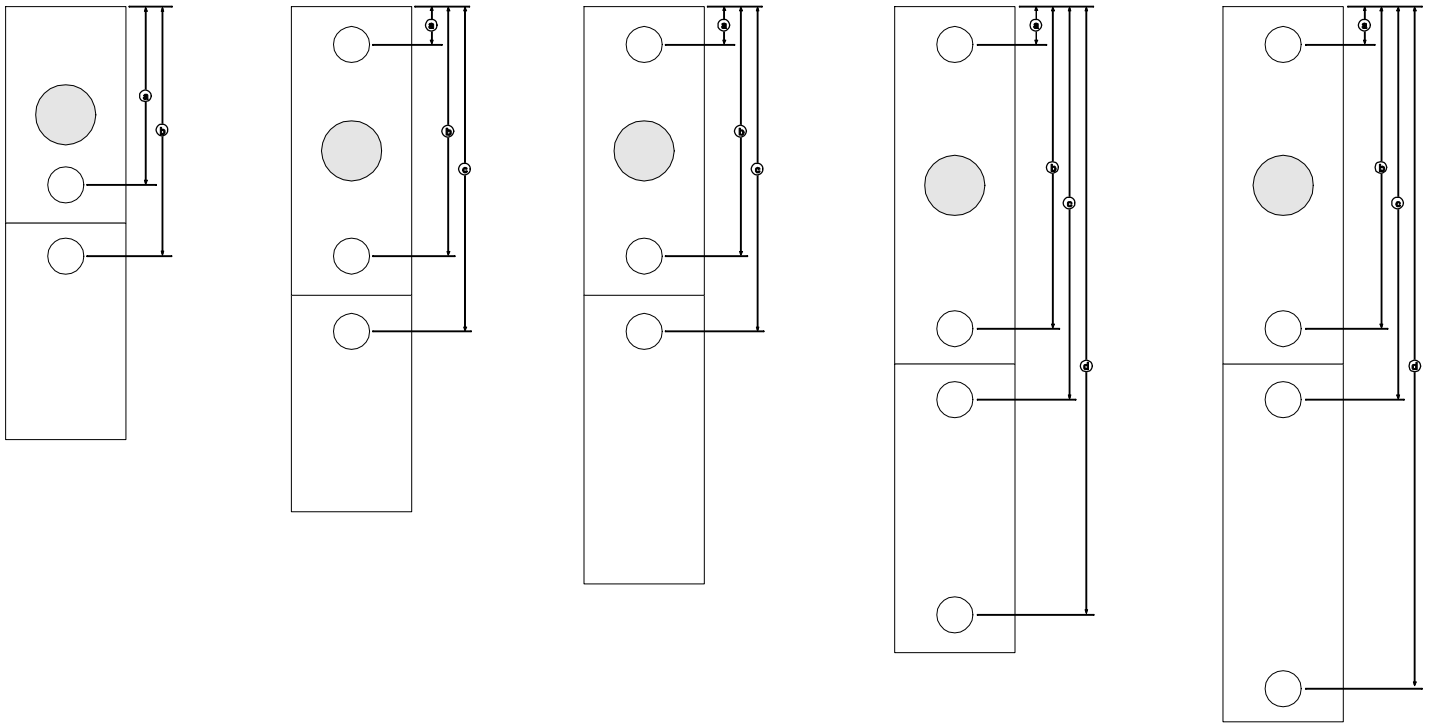
- If you live in the shaded regions shown in the illustration to the right, we strongly recommend using intake dampers (except in cases where the air being drawn in is conditioned or part of an air inlet system). In addition, use insulated air ducts and insulate the fireplace enclosure.
- If the fireplace is located in an area with negative pressure, we recommend intake dampers to prevent air from being drawn into the fireplace when it is not in operation.

- The intake damper wires may be routed from the fireplace inside or outside the ducting to the damper. Attach the damper wires to the damper (wire orientation does not matter). These wires may be shortened or extended using suitable wiring. When installing, make sure all excess wire is positioned away from the damper so it does not interfere with damper operation.
- After installation, turn the fireplace on and visually check the intake dampers to verify they open correctly.
- If using intake dampers, they must be located in an area that will allow them to be serviced at a later time. In addition, the dampers should be placed so their operation can be verified.

## Air intakes in Warm Environments

The DaVinci Custom Fireplace™ uses air-cooled glass to ensure proper temperatures near the viewing area. If operating the fireplace when the outside temperature is hot (above 90 deg. F.), you will notice the glass will become warm to the touch. When temperatures are more moderate, the glass will be cooler. Although this is not a safety issue, we do believe all fireplace viewers (and installers) should be aware of this. If you do anticipate operating this fireplace with higher outside temperatures, you may wish to pull the intake air from a cooler location (e.g.: shaded side of the building, conditioned air, etc.).

## *Air Intake Duct Quantity and Location – Category 2*



### Single Sided / See Through

| | 72” Version | 84” Version | 96” Version | 108” Version | 120” Version |
|---|---|---|---|---|---|
| **a** | 31” | 8.5” | 8.5” | 10.5” | 10.5” |
| **b** | 43” | 41.5” | 41.5” | 51.75” | 51.75” |
| **c** | | 55” | 56.5” | 68.5” | 70.5” |
| **d** | | | | 101.5” | 111.5” |

### Side / Pier

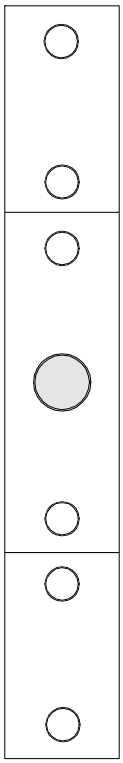
| | 78” Version | 90” Version | 102” Version | 114” Version | 126” Version |
|---|---|---|---|---|---|
| **a** | 31” | 8.5” | 8.5” | 10.5” | 10.5” |
| **b** | 43” | 41.5” | 41.5” | 51.75” | 51.75” |
| **c** | | 55” | 56.5” | 68.5” | 70.5” |
| **d** | | | | 101.5” | 111.5” |

### Bay / Island

| | 84” Version | 96” Version | 108” Version | 120” Version | 132” Version |
|---|---|---|---|---|---|
| **a** | 36” | 13.5” | 13.5” | 15.5” | 10.5” |
| **b** | 48” | 46.5” | 46.5” | 56.75” | 51.75” |
| **c** | | 60” | 61.5” | 73.5” | 70.5” |
| **d** | | | | 106.5” | 116.5” |

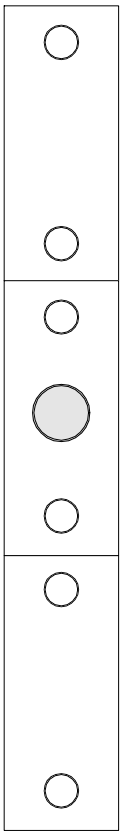
## *Air Intake Duct Quantity and Location – Category 3*

Single Sided 132" Version
Side 138" Version
Full Bay 144" Version
See Through 132" Version
Pier 138" Version
Island 144" Version



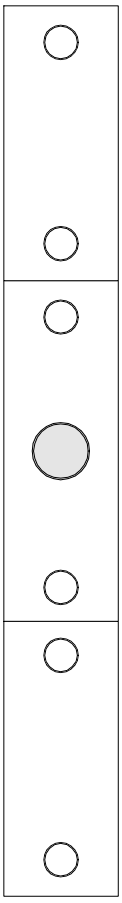
6 Air Intakes

Single Sided 144" Version
Side 150" Version
Full Bay 156" Version
See Through 144" Version
Pier 150" Version
Island 156" Version



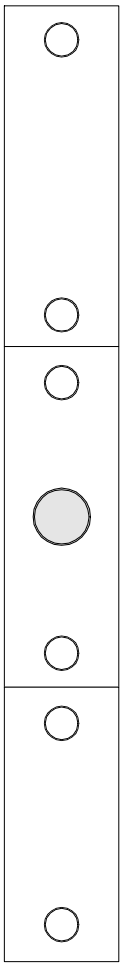
6 Air Intakes

Single Sided 156" Version
Side 162" Version
Full Bay 168" Version
See Through 156" Version
Pier 162" Version
Island 168" Version



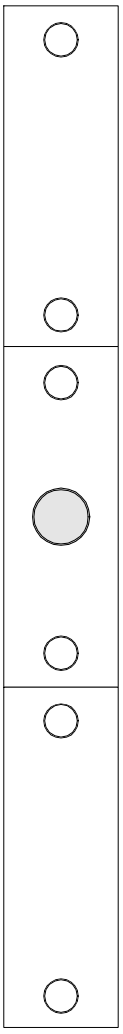
6 Air Intakes

Single Sided 168" Version
Side 174" Version
Full Bay 120" Version
See Through 168" Version
Pier 174" Version
Island 180" Version



6 Air Intakes

Single Sided 180" Version
Side 186" Version
Full Bay 192" Version
See Through 180" Version
Pier 186" Version
Island 192" Version



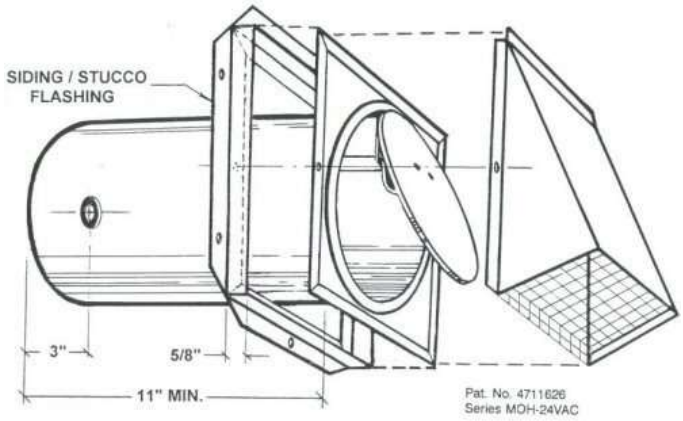
6 Air Intakes

## *Air intake Installation – Hood Versions (includes external dampers)*

### Part Numbers

6” Hood w External Damper 98900093
8” Hood w External Damper 98900094
6” Hood only

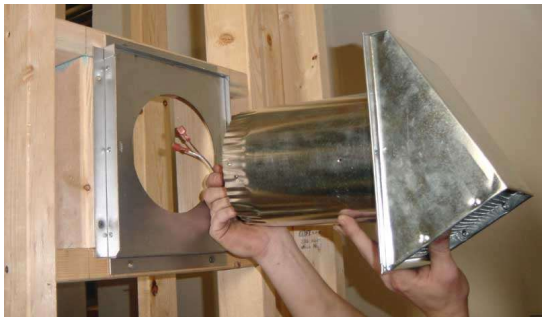
### Installation Diagram (intake with damper)




### Installation

- **WARNING**:
  DO NOT CONNECT THE INTAKE DAMPER WIRES TOGETHER (This will short the system).
- Locate the intake damper wires and make sure they are accessible before proceeding.
- **NOTE**: In the pictured example, we have crimped the intake damper. You may crimp this or use the included slider plate or connector to attach your flex duct.
- **DO NOT SCREW INTO THE TOP OF THE INTAKE DAMPER – THIS MAY CAUSE DAMAGE TO THE INTAKE DAMPER ACTUATOR.**

Slide the intake hood into the included flashing and secure.




Secure theduct to the hood. Use 2 or 3 screws and tape to attach and seal the duct.

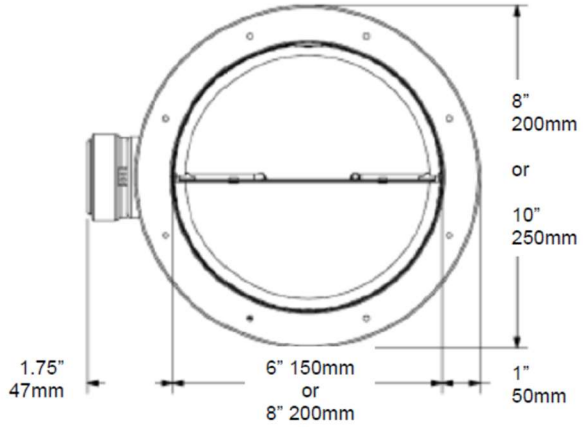


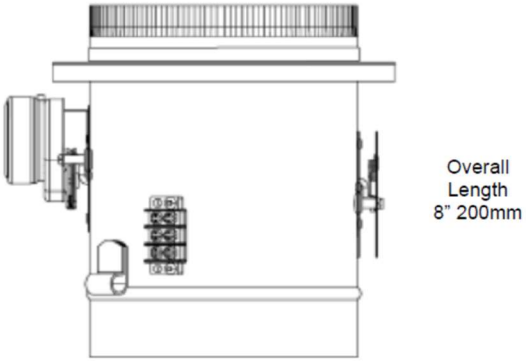
## *Internal Dampers (for Hori. or Vert. Termination)*

6” Dia. Intake Damper 98900078

8” Dia. Intake Damper 98900079

- 24V AC (orientation of wires does not matter)
- Normally Closed
- Spring Return



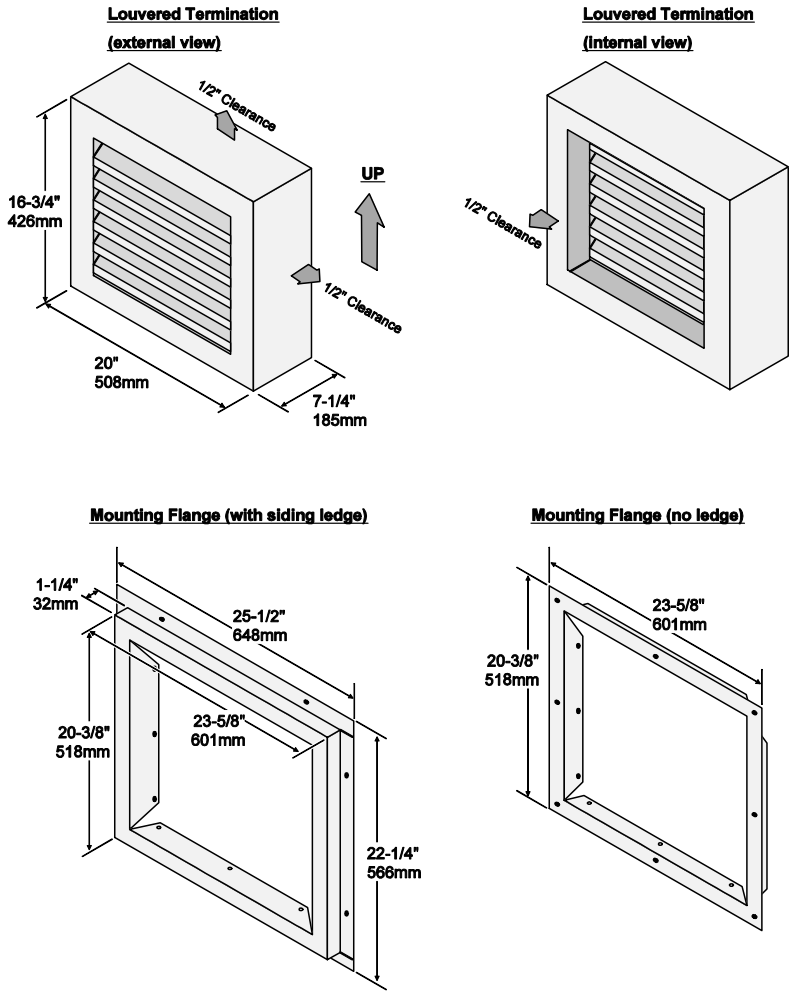

- The intake damper wires are located inside the air intake on some fireplaces. Carefully fashion a hole in the intake damper (or fireplace) and route the wires to the exterior of the duct. Make sure the wires do not contact any sharp edges (use grommets if necessary). Seal the duct to ensure proper airflow.
- Route the intake damper harness from the fireplace to the damper (it is 25’ long). If additional length is needed, use part 250-02295 or 18 gauge wire.
- You will need to cut the quick-connects off the end of the wire harness. Attach the intake damper wires to the upper and lower posts on the terminal block attached to the intake damper (see pictures below - **orientation of the two wires does not matter**).

## *Louvered Termination (used for intake(s) or exhaust vent)*

**NOTE**: Similar louver designs may be used at the discretion of the manufacturer, following confirmation of the certifying body.

- The Louver Requires an Adapter – see the following page.
- Packing List:
  - Louvered Termination, Mounting Flange (w siding ledge), Mounting Flange (no ledge), (12) Self Drilling #8 x ½" Screws

### Dimensions



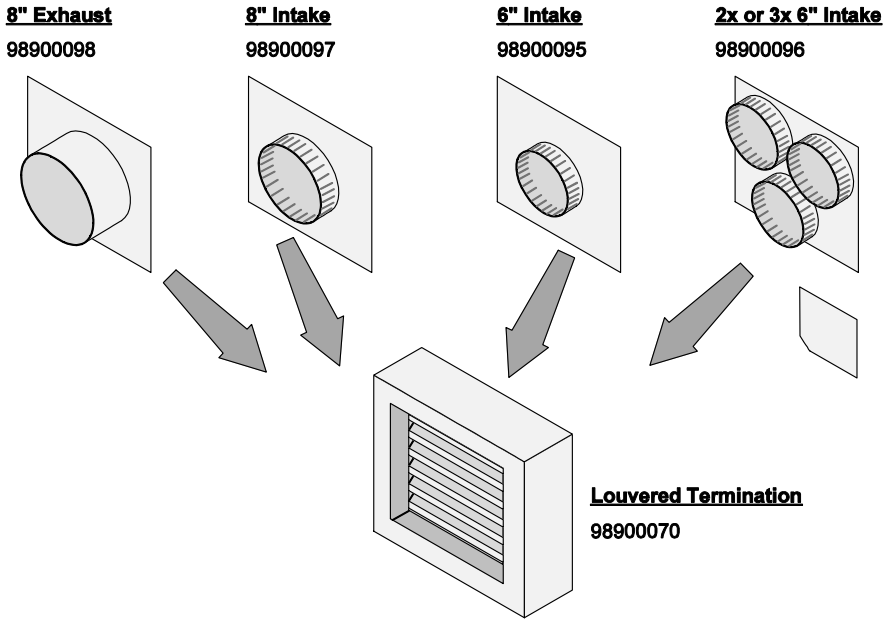

### Painting the Louvered Termination and Flange(s)

- The exterior surfaces have been treated (chromate) to optimize paint adhesion. This treatment leaves the aluminum a bronze color. Use a suitable outdoor primer and finish coat on this surface as desired. NOTE: If used as an exhaust termination, use paint capable of withstanding 400° F. (e.g.: Stove Bright).

### Installation Considerations

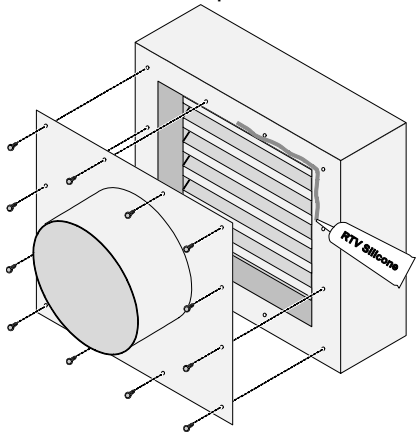
- This termination must be placed horizontally.
- The termination, when used as an exhaust, has a 1/2" clearance to combustibles (use included mounting flange for combustible framing)
- The included mounting flanges may be secured to the louvered termination using the included screws. Use the flange best suited for your installation.

## Louvered Termination Adapter Plates




## Attaching the Adapter to the Louvered Termination

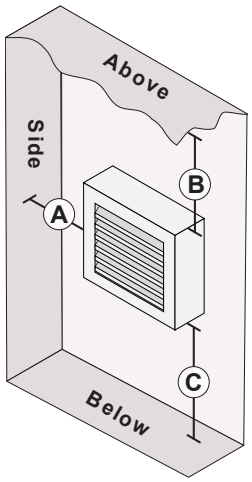
Use the included screws to attach the adapter to the louvered termination.




**8" EXHAUST ADAPTER ONLY**
For the exahust adapter, apply a bead of high-temperature RTV silicone to the inner perimeter of the Louvered termination.

## Louvered Termination Clearances

See the illustration below for required clearances when using the louvered termination as an exhaust.




All measurements are to combustible or noncombustible surfaces.

| | A - To Side | B - Above | C - Below |
|---|---|---|---|
| **Cat 1** | 5-1/2” (140mm) | 12” (305mm) | 12” (305mm) |
| **Cat 2** | 7” (178mm) | 12” (305mm) | 30” (762mm) |
| **Cat 3 & 4** | 10” (254mm) | 12” (305mm) | 30” (762mm) |

## *Vent Requirements*

- The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent gas appliance must use its own separate vent system.
- In addition to the requirements listed here, follow the requirements provided with the vent.
- A firestop is required whenever the vent penetrates a wall, floor, or ceiling (passes through framing members). Firestops may be provided by the vent manufacturer (1" clearance).

**NOTE:** With the venting clearance requirements met, the area around the venting may become hot to the touch. This is not a safety issue; however, make sure to consider this when planning vent runs in shared walls, ceilings and floors to avoid undesired heating of spaces or surfaces.

### Vent Clearances

- The vent must maintain the required clearance to combustible materials to prevent a fire. Do not fill air spaces with insulation.

| | |
|---|---|
| Minimum Clearance to Vent | 1" (25mm) |

### Altitude Considerations

- This fireplace has been tested at altitudes ranging from sea level to 6,000 feet (1800 M). In this testing we have found that the fireplace, with its standard orifice, burns correctly with just an air shutter adjustment.
- Failure to adjust the air shutter properly may lead to improper combustion which can create a safety hazard. Consult your dealer or installer if you suspect an improperly adjusted air shutter.

### Approved Vent

- Use listed 10" or 8" B-Vent (see power vent for diameter used). The actual exterior dimension will vary (typically 11" 279mm or 9" 229mm outer diameter). This vent is available from Travis Industries.

### Vent Installation

- Secure the sections together (twist sections together, secure with screws - see vent manufacturer instructions for detailed requirements).
- Horizontal sections require non-combustible support every three feet (e.g.: plumbing strap)

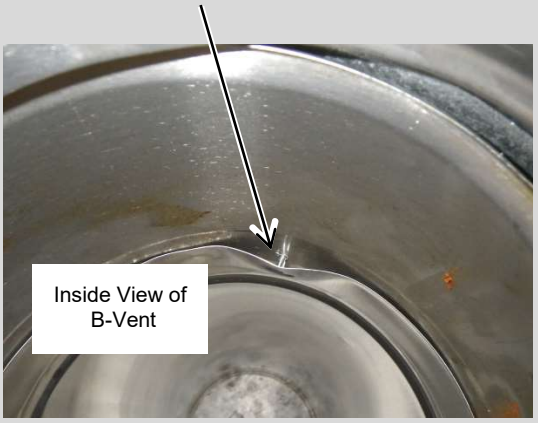
**WARNING: Do not use screws longer than 1/4" to secure the B-Vent together**.
If long screws are used to secure the vent together, the screw will penetrate the outer wall of the vent then deflect the inner wall. This makes the inner wall bend inwards, creating unwanted turbulence and resistance inside the vent (see picture below to the right). This decreases exhaust flow and may negatively impact vent durability. See the vent manufacturer instructions for maximum screw size.

**Make Sure Screws are Not Longer than 1/4"**

1/4" Crimptite (works fine)

1/2" Tek Screw (too long)

**Long Screws Create an Inward Bend (Flair)**

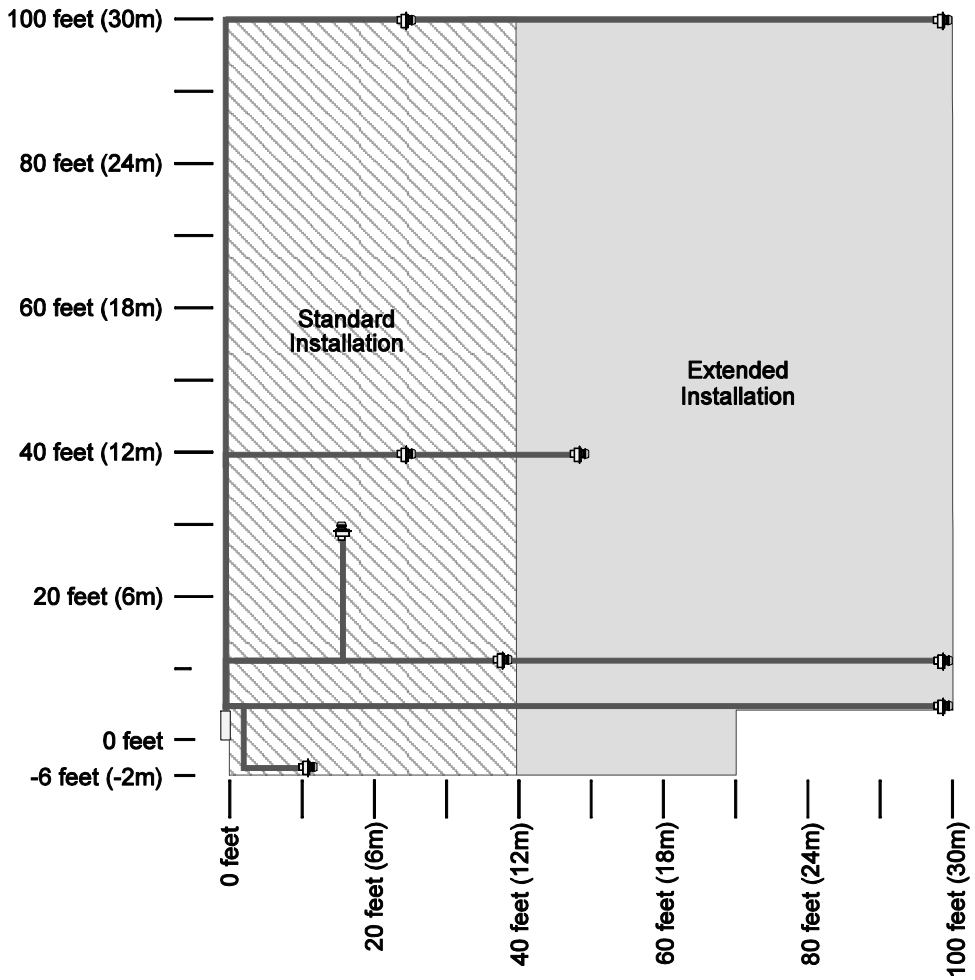


## *Approved Vent Configurations*

The fireplace vent must meet the following requirements:

- **<u>Minimum Vent Length = 3' (1 M) - Interior blower requires a minimum 5' (1.6 M) vent length</u>**
- Maximum Horizontal Run = 100' (30 M)*
  NOTE: Vent does not require any vertical rise along its run.
- Maximum Vertical Rise = 100' (30 M)* (measured from base of fireplace)
- Maximum Vertical Drop Below Base of Fireplace = 6' (2 M)*
  NOTE: The downward vent sections may not exceed 10' total.
- Maximum 90˚ Elbows = 4 (note: two 45˚ elbows count as one 90˚ elbow)
- The chart below details maximum vent height and length. The termination must fall within the "Standard Installation" or "Extended Installation" shaded regions shown below.
- Use the table below to determine which blower must be used.

* **If you wish to place the termination outside the shaded regions, or if additional elbows are required, you must contact Travis Industries to verify vent configuration.**




| <u>Compatible Exhaust Blower</u> | <u>Standard Installation</u> | <u>Extended Installation</u> |
|---|---|---|
| **<u>6' Burner (or less)</u>** | RS12 or Inline 160 | Inline 160 |
| **<u>7' Burner (or greater)</u>** | RS16 or Inline 180 | Inline 180 |

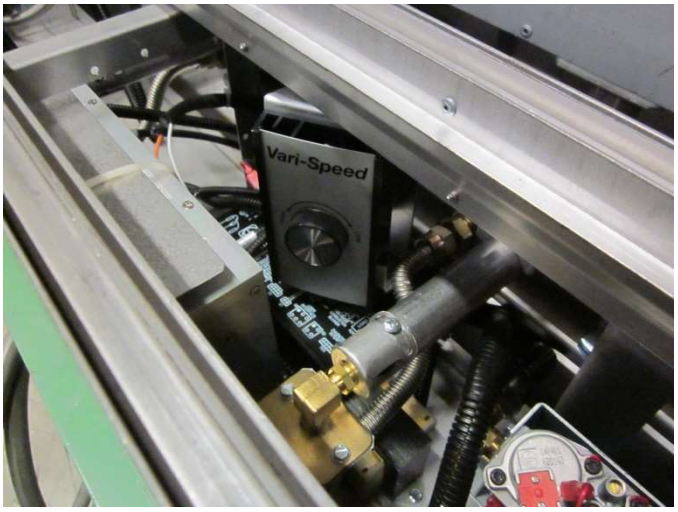
## Rheostat Adjustment

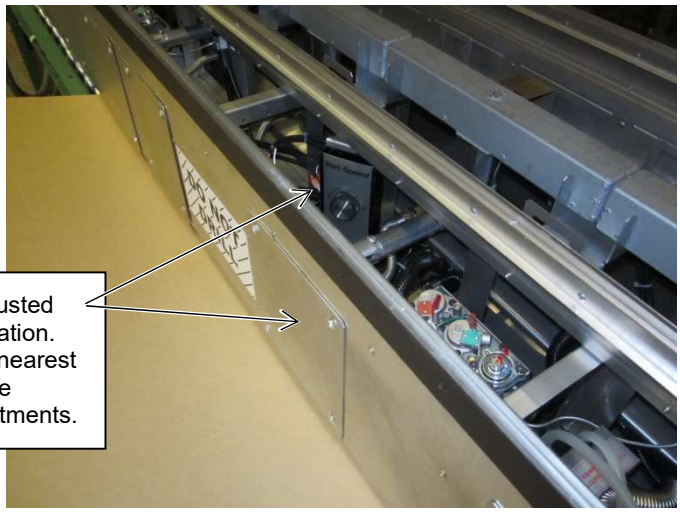
**Most vent configurations will require no adjustment to the rheostat.** If your flame is especially blue or short after 20 minutes, or if the glass is too hot, you may need to adjust the rheostat.

-- If the flames are blue and short after 20 minutes – turn the rheostat down.

-- If the glass is too hot after 20 minutes – turn the rheostat up.

Contact Travis Industries if you have any questions regarding rheostat adjustment.

The rheostat may be adjusted with the fireplace in operation. Remove the cover plate nearest the rheostat to access the rheostat and make adjustments.

**NOTE**: The exhaust blower will run on high for approximately 30 seconds once the fireplace is turned on (pre-purge). After 30 seconds the burner will turn on and the rheostat controls the speed of the exhaust blower.

## Restrictor Adjustment

**Most vent configurations will require no restrictor adjustment.** If your flame is especially blue or short after 20 minutes, and you have adjusted the rheostat to the lowest setting, you may need to adjust the restrictor (it is attached to the firebox ceiling near the exhaust outlet). Contact Travis Industries for further details before adjusting the restrictor.

## Termination Requirements

**! Venting terminals shall not be recessed into a wall or siding.**

A Minimum 9" (229mm) clearance from any door or window

B Minimum 24" (610mm) above any grade, veranda, porch, deck or balcony

C Minimum 1" (25mm) from outside corner walls
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

D Minimum 24" (610mm) from inside corner walls
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

E Minimum 24" (610mm) clearance below ventilated or unventilated soffits or roof surfaces
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

F Minimum 12" (305mm) clearance below a veranda, porch, deck or balcony
**NOTE**: Permitted only if veranda, porch, deck, or balcony is fully open on a minumum of two sides beneath the floor.
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

G Minimum 48" (1219mm) clearance from any adjacent building

H Minimum 84" (2134mm) clearance above any grade when adjacent to public walkways or driveways
NOTE: may not be used over a walkway or driveway shared by an adjacent building

I Minimum 12" (305mm) clearance to any nonmechanical air supply inlet to the building or the combustion air inlet to any other appliance (36" 914mm if over 100,000 BTUs in Canada)

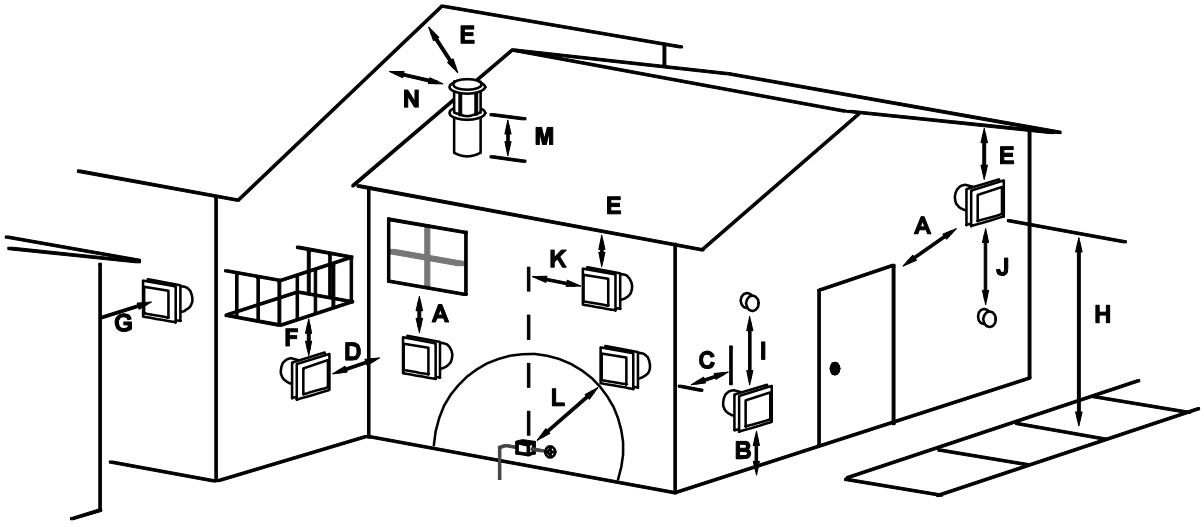
J Minimum 36" (914mm) clearance above any mechanical air supply inlet if within 10' (3M) horizontally
**EXCEPTION**: The air intake for this fireplace may be placed a minimum 24" (610mm) to the side or below the exhaust termination (do not place the intake above the exhaust termination).

K Minimum 36" (914mm) from the area above the meter/regulator (vent outlet) - this extends 15' (4.5M) above the regulator
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

L Minimum 36" (914mm) from the meter/regulator (vent outlet)
**NOTE**: Clearance in accordance with local installation codes and the requirements of the gas supplier.

M Minimum 12" (305mm) above the roof line (for vertical terminations)

N Minimum 24" (610mm) horizontal clearance to any surface (such as an exterior wall) – for vertical terminations




**NOTE: Measure clearances to the nearest edge of the exhaust hood.**

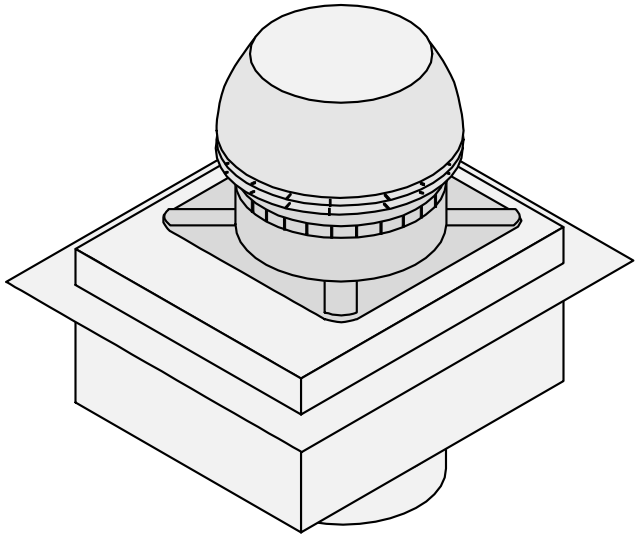
- Vent termination must not be located where it will become plugged by snow or other material

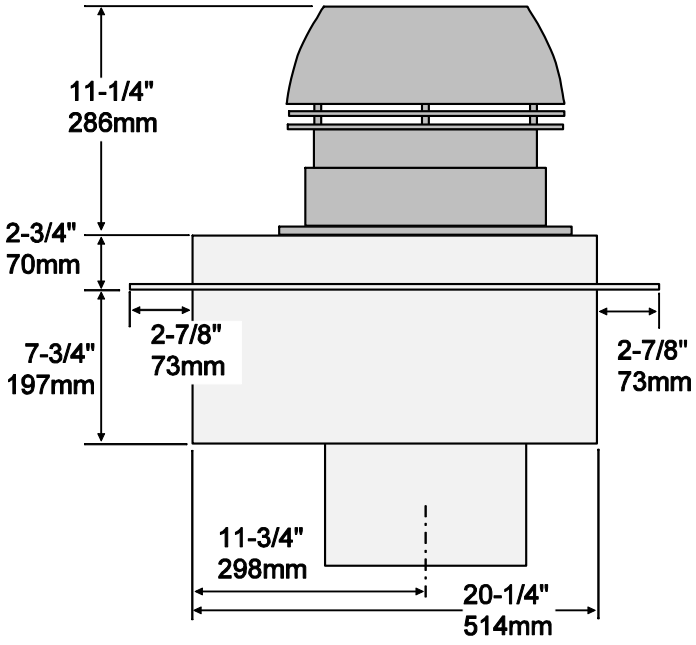
## *Louvered Terminations Requirements*

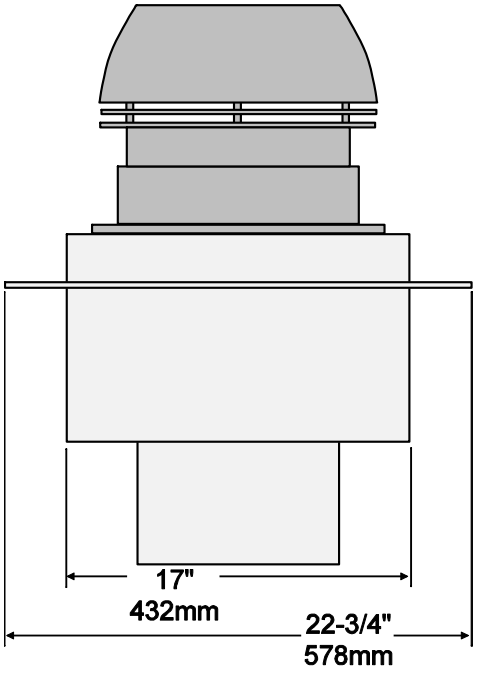
If using the louvered termination as an exhaust, you must follow the requirements detailed on page 73.

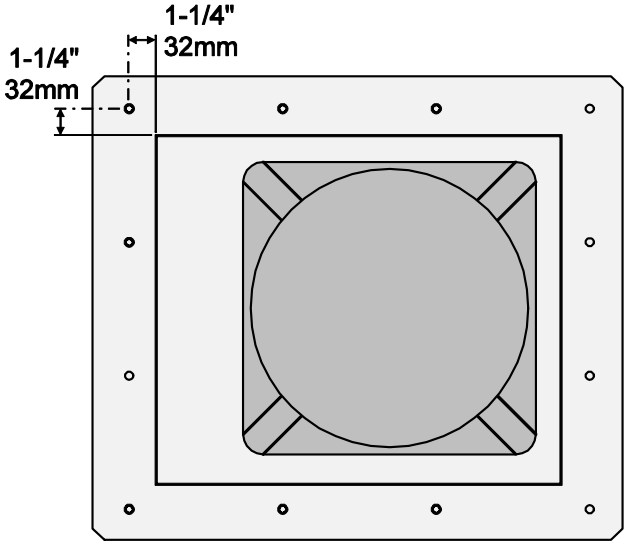
## *Exterior Power Vent – Dimensions, Framing, Mounting*

### Exterior Power Vent Dimensions – Low Volume (RS12) 94400903

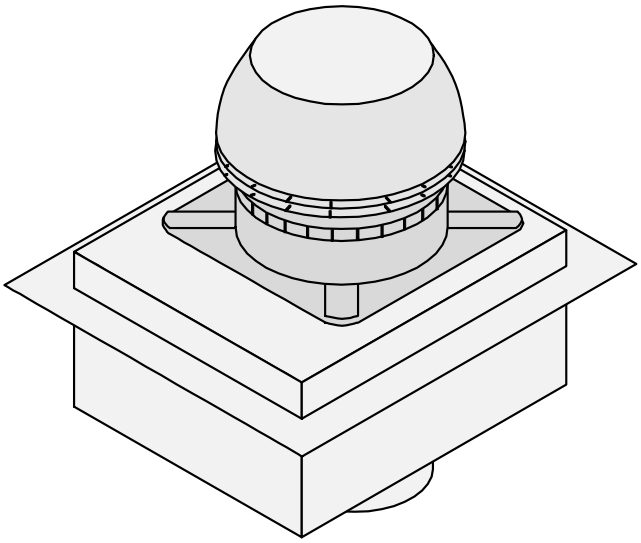


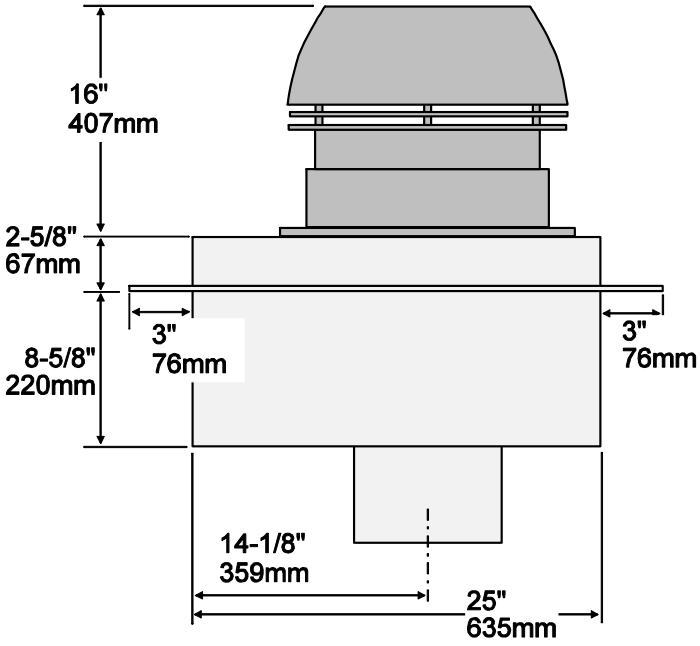


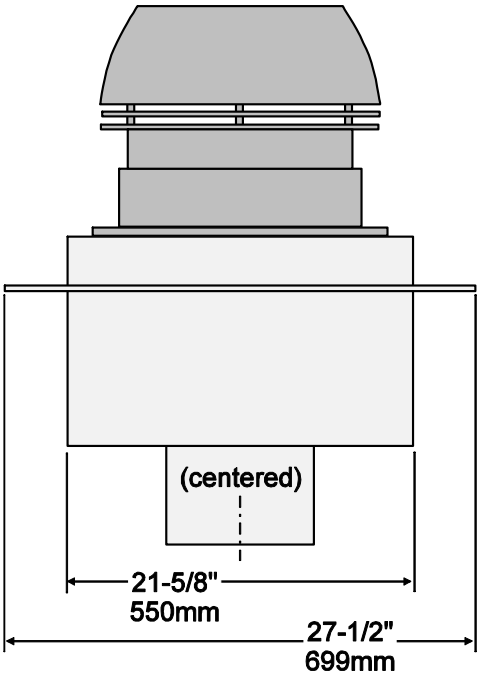



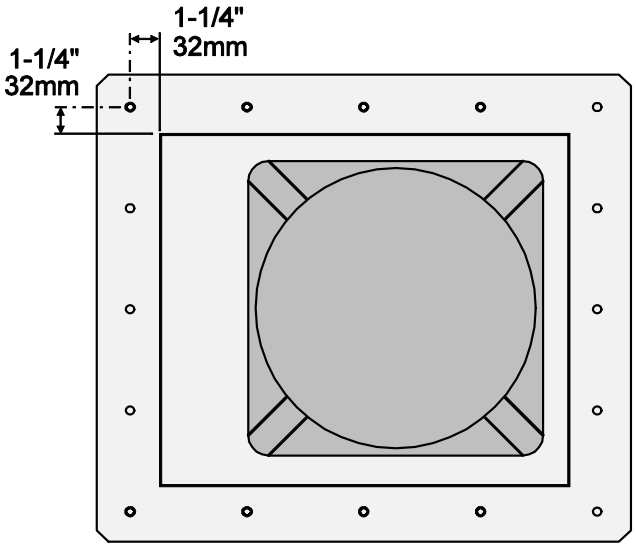



## Exterior Power Vent Dimensions – High Volume (RS16) 94400904





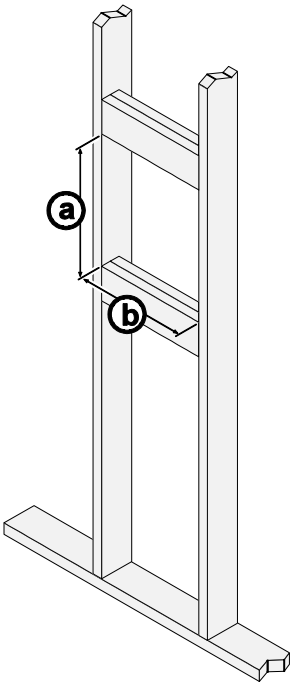



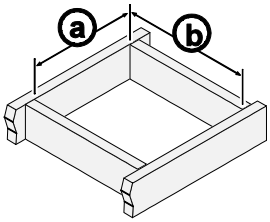



## Framing - Exterior Power Vent (94400903 & 94400904 only)

- The power vent assembly must be mounted into framing capable of supporting the weight of the assembly and vent.
- Framing must provide a 1/2” gap to power vent assembly housing. This allows for proper cooling of the blower and damper.
- Framing dimensions are listed below (these dimensions include the required 1/2” gap).

**Horizontal Termination** **Vertical Termination**




| | Height (a) | Width (b) |
|---|---|---|
| **Small Blower** | 21-1/4” (540mm) | 18” (458mm) |
| **Large Blower** | 26” (661mm) | 22-5/8” (575mm) |

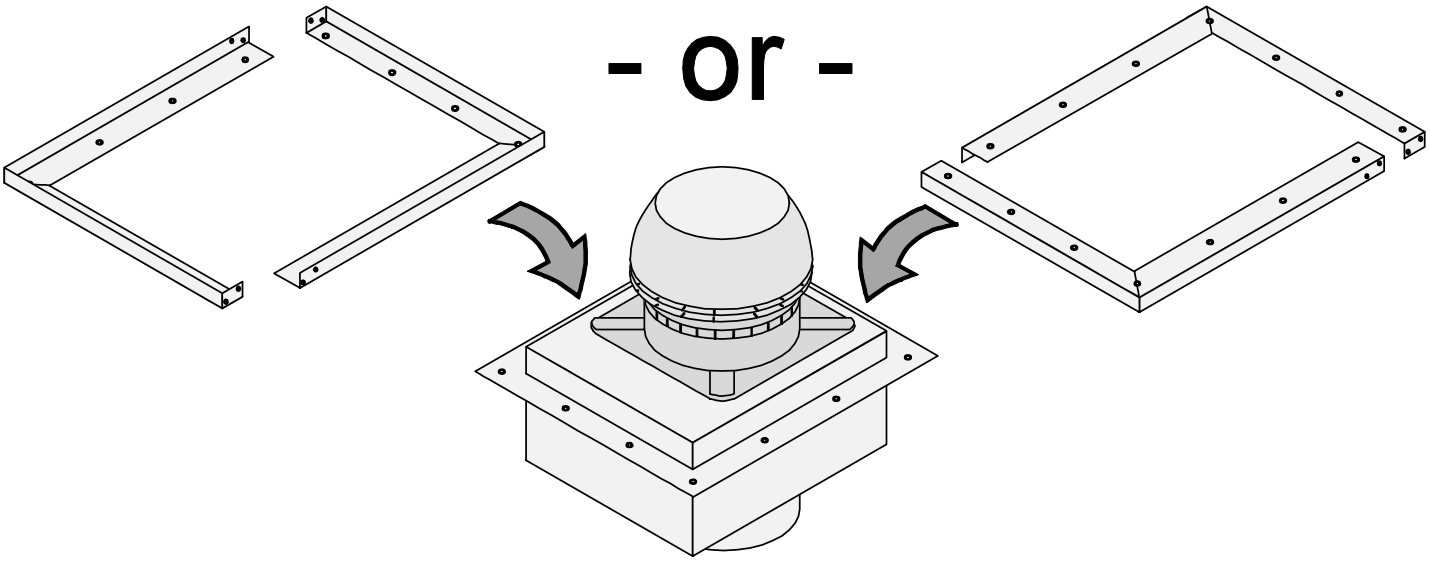
- Box may be mounted in a vertical or horizontal position. If mounted in a horizontal position, the box must be mounted with the cooling holes on top (to allow for proper airflow).

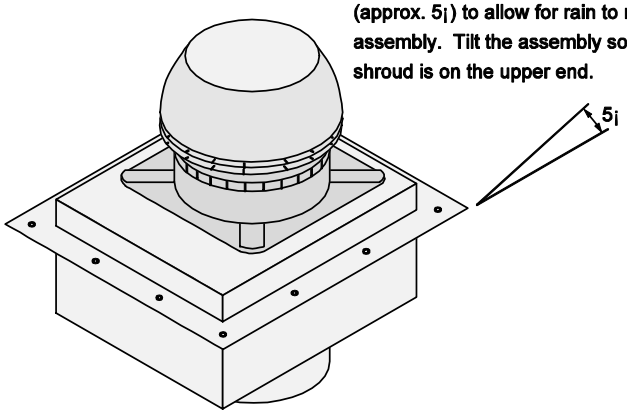
Cooling Holes

**MAKE SURE TO PROVIDE A ½” GAP TO ALL SIDES FOR COOLING**

## Mounting - Exterior Power Vent (94400903 & 94400904 only)

- Box must be properly weatherized to prevent rain or snow from entering.
- Flashing strips are included with the blower to provide additional protection. The flashing may be placed with the edge outwards for horizontal terminations when submerged in siding. It may also be placed with the edge inwards for vertical terminations to provide a drip edge.
- When mounted vertically we recommend the blower assembly be mounted with a slight tilt (approx. 5°) to allow for rain to run off the assembly (see illustration below). Tilt the assembly so the blower shroud is on the upper end.

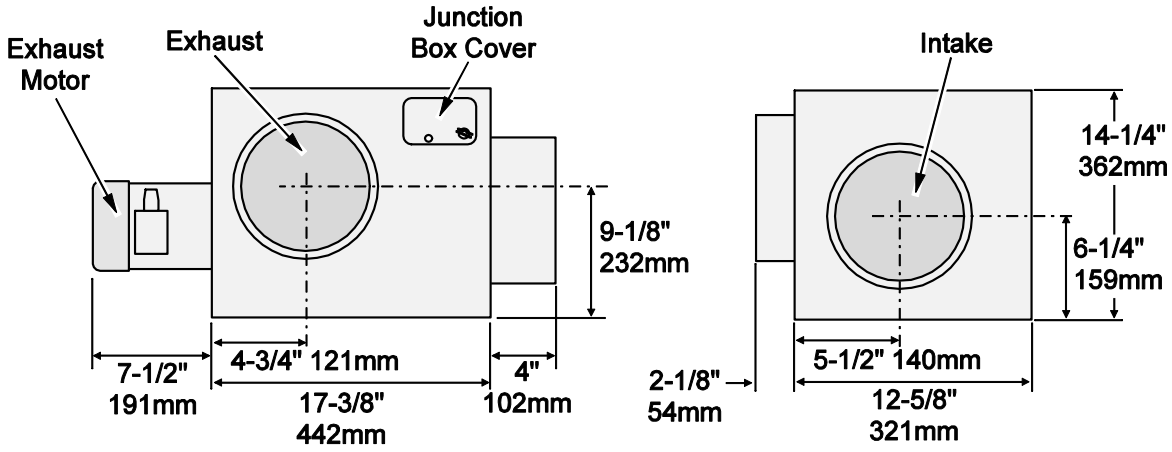


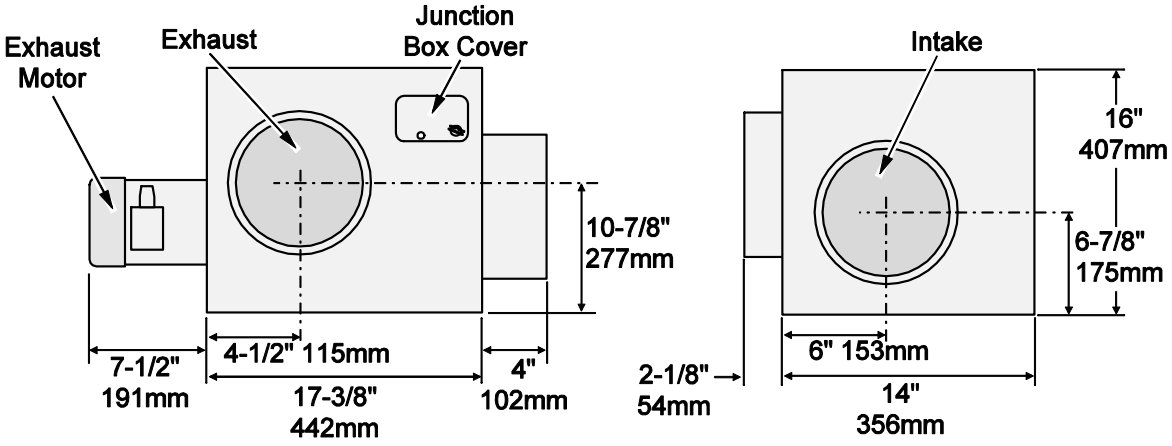
## *Interior Power Vent – Dimensions and Mounting*

### Interior Power Vent Dimensions – (Lo 160) 94400905

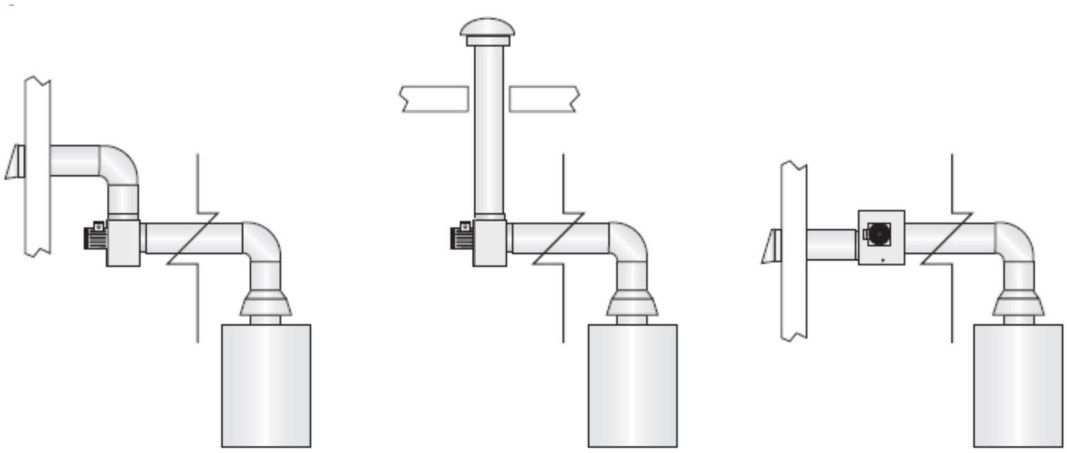
! The blower may be placed on its side or with the motor upwards. **DO NOT POSITION THE ASSEMBLY SO THE BLOWER MOTOR IS BELOW THE ASSEMBLY**. This will greatly shorten blower life and void the warranty.




### Interior Power Vent Dimensions – Inline Version (Hi 180) 94400906



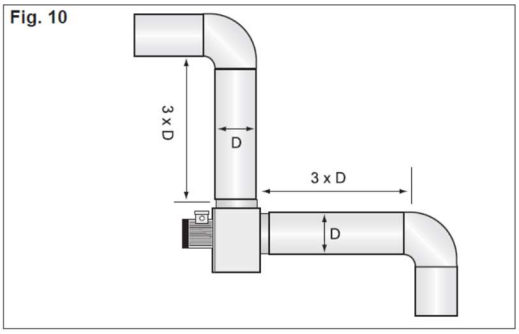

### Interior Power Vent - Typical Installation Arrangements



## Interior Power Vent - Minimum Vent Pre and Post Blower

In order to achieve optimal performance and energy consumption, the vent pipe should be installed as in Fig. 10 and the distances observed.

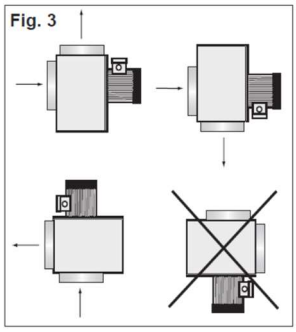
Fig. 10




- Minimum Vent Pre-Blower = 2' Straight Section (24") – 4' (48") or more recommended)
- Minimum Vent Post-Blower = 2' Straight Section (24") – 4' (48") or more recommended)

## Interior Power Vent – Mounting

Fig. 3



! **THE B-VENT AFTER THE EXHAUST BLOWER MUST BE SEALED (use rtv silicone, pressure pipe, or equivalent). Certain jurisdictions may require sealed b-vent pressure pipe (consult with your local building official for requirements in your area).**

! The blower may be placed on its side or with the motor upwards. **DO NOT POSITION THE ASSEMBLY SO THE BLOWER MOTOR IS BELOW THE ASSEMBLY – SEE ILLUSTRATION TO THE RIGHT**. This will greatly shorten blower life and void the warranty.

- Use the included brackets to help secure the blower and exhaust damper in place (see illustration below).
- Use straps/supports/framing to secure the blower in a workmanlike manner.
- Test the blower prior to sealing the vent enclosure to ensure proper noise abatement has been achieved. You may wish to isolate the blower mounting to reduce vibration.

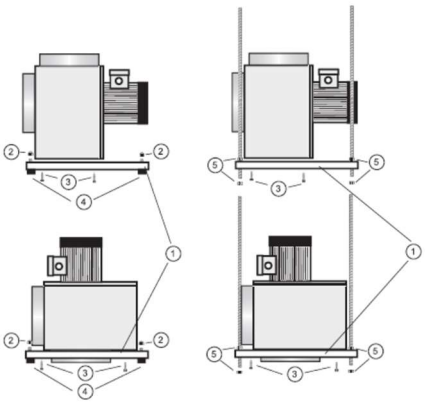
The power venter can be mounted with plumber's strap or threaded rod with nuts and washers, or it can be placed on support legs (included).

As Fig. 5 illustrates, the venter can be placed in virtually any position or direction, except with the motor pointing down. When placing the venter on the support legs (1), the vibration dampers (4) should be used and secured by nuts (2).

The support legs are attached to the bottom of the venter using the enclosed sheet metal screws (3). In this configuration, the venter is typically placed on a shelf hung from a wall.

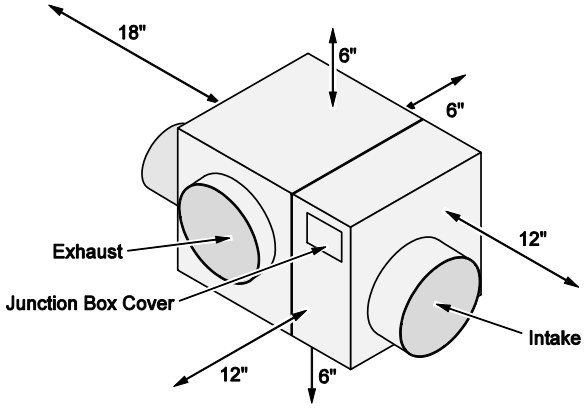
If hanging the venter from the ceiling, threaded rods should be used. Attach the support legs (1) to the bottom of the fan and secure with the sheet metal screws (3). Do not use the vibration dampers. Instead, use the holes on the top of the legs for the threaded rods, and secure these with the nuts (5).

Fig. 5



## Interior Power Vent Enclosure

- The exhaust blower assembly consists of a blower and damper constructed into a single box. This assembly is best placed in a location where it can be accessed from all sides (ceiling plenum, utility closet, mechanical chase, attic space, service corridor, etc.). It is imperative that the assembly be placed in a location where the vent connections and junction box may be accessed.
- If you do wish to enclose the blower assembly, make sure to place it in a location where it may be accessed and the vent and wiring disconnected for servicing. The illustration below details the minimum clearances required for the exhaust blower enclosure. Make sure to include an access door on the side that has the junction box. This will allow a service person to access to the junction box and vent connections.




The blower assembly requires a 1" clearance to combustibles.

## Interior Power Vent - Attaching Vent to the Blower Assembly

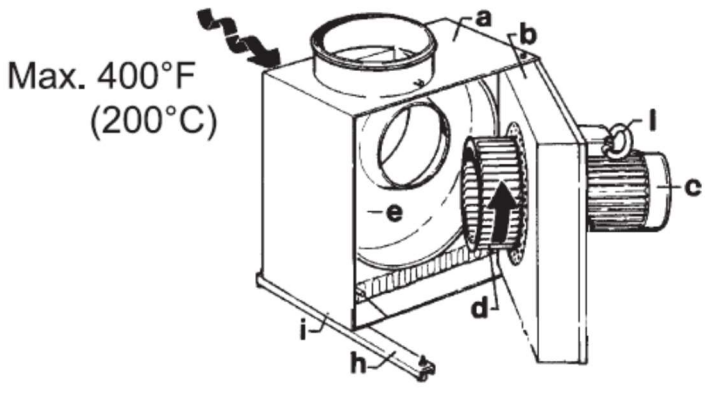
- When attaching the vent to the blower assembly, make sure to accommodate servicing at a later time.
- Attach a male adapter to both the intake and exhaust (e.g.: Duravent 8GVAM). When attaching make sure to orient the adapter correctly (note direction of flow). For the exhaust, the adapter will be sealed and screwed to the exhaust box.
- After the male adapter, use an adjustable length connector on both the intake and exhaust (e.g. Duravent 8GV12A). Make sure to position the connector so the tensioner may be loosened after the installation is complete. This arrangement allows for the adjustable lengths to be loosened at a later time and the vent connections detached from the exhaust blower assembly.

## Interior Power Vent - Components

The power venter consists of the following components:

| | | | |
|---|---|---|---|
| a. | Housing | f. | Door latches |
| b. | Access door | g. | Door handle |
| c. | Motor | h. | Support legs with vibration dampers (2) |
| d. | Centrifugal impeller | i. | Sheet metal screws (4) |
| e. | Power venter housing | l. | Wire conduit |

Fig. 1




## Interior Power Vent - Termination

- The interior power vent must use a listed B-Vent termination or the Travis Louvered Termination (98900070) for horizontal terminations (make sure to use the appropriate adapter).

## Hearth Requirements

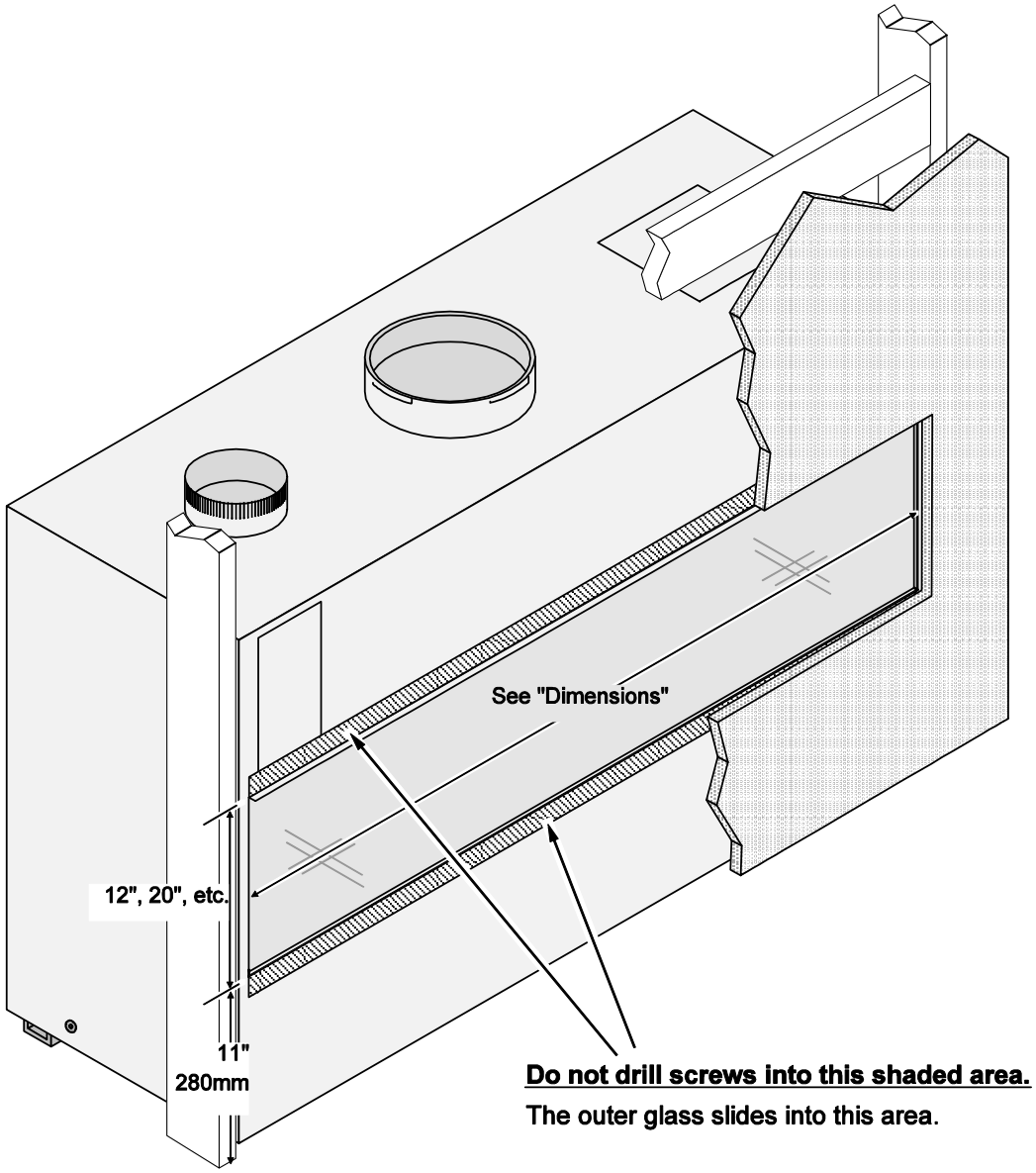
A hearth is not required for this fireplace. If a hearth is installed, it must not extend above the glass opening. The hearth may be combustible or non-combustible.

## Facing Requirements

- Drywall, tile, or other facing (combustible or non-combustible) may be placed directly on the face of the fireplace (see “a” below).
- Facing may be placed along the perimeter of glass opening, but must not extend over it. This area must remain open to allow for glass removal and installation.
- Fireplace must not be used to support the facing. Heavy facing must be self-supporting.

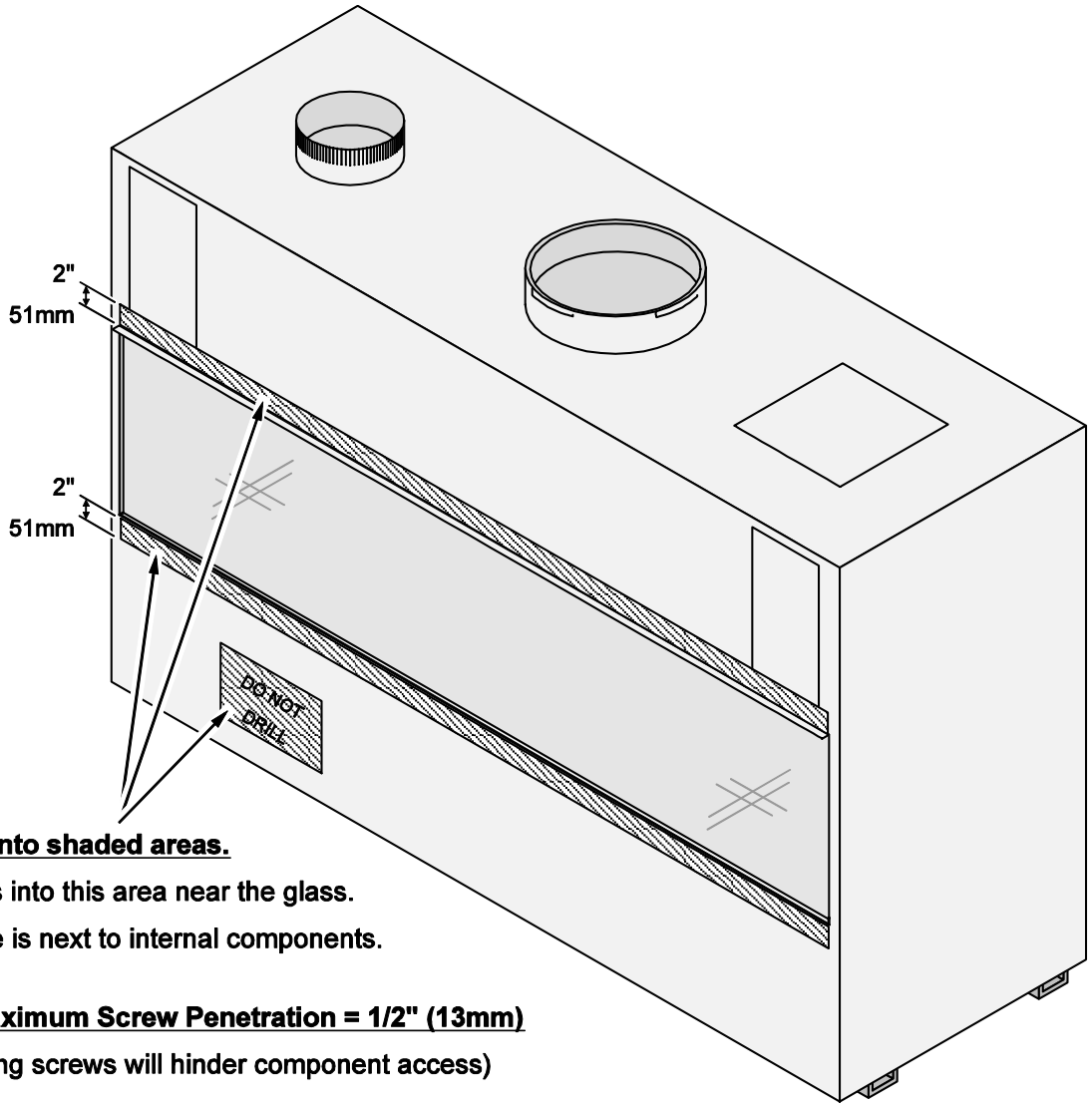

**WARNING**: Do not use adhesive to secure the facing. The high temperatures of the fireplace may cause adhesives to emit odors. Use mastic or thin set (or other non-combustible, non-odorous adherent) to attach the facing.

**NOTE**: Screws may be used to secure cement board or tile backer to the fireplace. Do not penetrate the fireplace more than 1/2” (13mm).



### Do Not Drill or Screw Zone

When using screws to secure drywall to the fireplace, make sure to avoid the area shown below. Make sure screws penetrate no more than ½" (13mm) into the fireplace.




**Do not drill screws into shaded areas.**

**The outer glass slides into this area near the glass.**

**The "do not drill" zone is next to internal components.**

**Maximum Screw Penetration = 1/2" (13mm)**

**(long screws will hinder component access)**

## *Mantel Requirements*

- A mantel (combustible or non-combustible) may be installed above the fireplace. Make sure it does not overlap the glass opening.

## *Fireback Installation*

Firebacks are shipped separately from the fireplace and must be installed prior to installing the crushed glass. There are three different sizes of firebacks (12", Divider, and End Firebacks). Depending upon the type of fireplace, you will need multiple pieces (see table below). Follow the instructions below to install.

### Fireback Quantity Needed – Category 2 Fireplaces

| Type of Fireplace | Burner Length | # of 12" Firebacks | # of End Firebacks (4-1/4" Wide) | # of Divider Firebacks (8-5/8" Wide) | # of Bay Firebacks (5-1/2" Wide) |
|---|---|---|---|---|---|
| **1-Sided** | 6' | 6 | 2 | 2 | 0 |
| | 7' | 7 | 2 | 2 | 0 |
| | 8' | 8 | 2 | 2 | 0 |
| | 9' | 9 | 2 | 2 | 0 |
| | 10' | 10 | 2 | 2 | 0 |
| | 11' | 11 | 2 | 2 | 0 |
| | 12' | 12 | 2 | 2 | 0 |
| | 13' | 13 | 2 | 2 | 0 |
| | 14' | 14 | 2 | 2 | 0 |
| | 15' | 15 | 2 | 2 | 0 |
| **See Through** | Any Length | 0 | 4 | 2 | 0 |
| **Pier** | Any Length | 0 | 2 | 1 | 0 |
| **Island** | Any Length | 0 | 0 | 0 | 0 |
| **Full Bay** | 6' | 6 | 0 | 0 | 2 |
| | 7' | 7 | 0 | 0 | 2 |
| | 8' | 8 | 0 | 0 | 2 |
| | 9' | 9 | 0 | 0 | 2 |
| | 10' | 10 | 0 | 0 | 2 |
| | 11' | 11 | 0 | 0 | 2 |
| | 12' | 12 | 0 | 0 | 2 |
| | 13' | 13 | 0 | 0 | 2 |
| | 14' | 14 | 0 | 0 | 2 |
| | 15' | 15 | 0 | 0 | 2 |
| **Side** | 6' | 6 | 1 | 1 | 1 |
| | 7' | 7 | 1 | 1 | 1 |
| | 8' | 8 | 1 | 1 | 1 |
| | 9' | 9 | 1 | 1 | 1 |
| | 10' | 10 | 1 | 1 | 1 |
| | 11' | 11 | 1 | 1 | 1 |
| | 12' | 12 | 1 | 1 | 1 |
| | 13' | 13 | 1 | 1 | 1 |
| | 14' | 14 | 1 | 1 | 1 |
| | 15' | 15 | 1 | 1 | 1 |

## Fireback Installation Order

| Type of Fireplace | |
|---|---|
| **1-Sided** | (a) Install 12” firebacks (start at ends and work inwards – align if necessary).<br>(b) Install divider firebacks.<br>(c) After inner glass is in place, install end firebacks. |
| **See Through** | (a) Install divider firebacks.<br>(b) After inner glass in place, install end firebacks |
| **Pier** | (a) Install divider firebacks.<br>(b) After inner glass in place, install end firebacks. |
| **Island** | No firebacks, no worries. |
| **Full Bay** | (a) Install bay firebacks on both ends (install near end and slide to the outside).<br>(b) Install 12” firebacks. |
| **Side** | (a) Install bay firebacks at the end (install near the end and slide to the outside).<br>(b) Install 12” firebacks.<br>(c) Install divider fireback.<br>(d) After inner glass in place, install end fireback |

## Identifying the Firebacks

### 12” Fireback

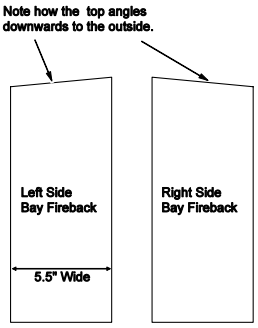
This notch fits over the ledge at the back of the firebox.

### Divider Fireback

The divider fireback has a notch on the bottom.

### Bay Fireback

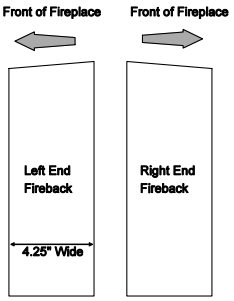
This notch fits over the ledge at the back of the firebox.




### Older End Firebacks (<u>newer firebacks are interchangeable and may be placed on either side</u>)

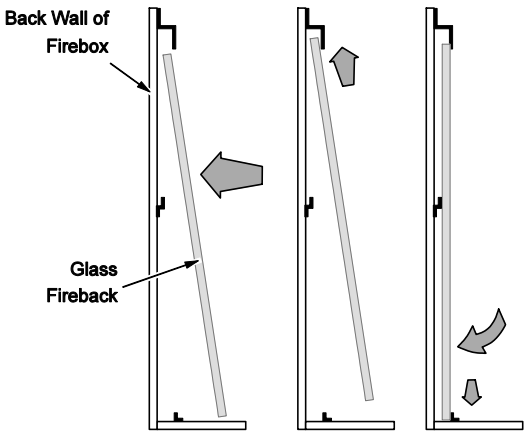
The end fireback has a hole on the bottom.

Older end firebacks are side specific (each side is not interchangeable). Make sure to place the end fireback with the slope facing outward (see illustration to the right).



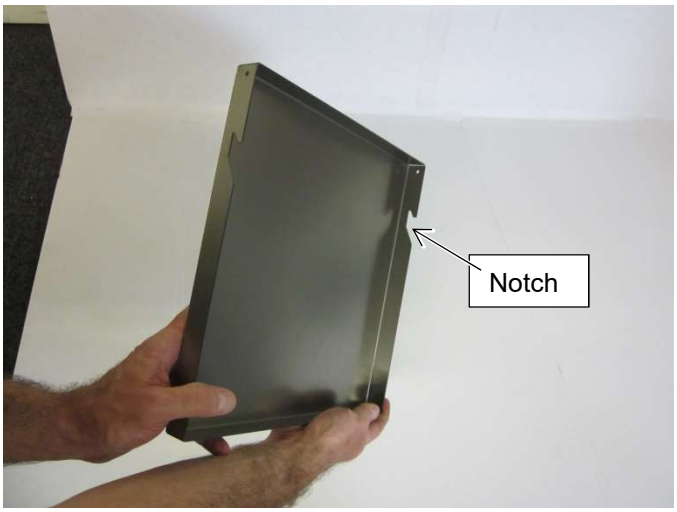

### Glass Fireback

- The optional glass fireback is placed along the back wall of the firebox.
- It is shipped with the glass panes.
- To install, lift it into place using suction cups (see the illustration to the right for instructions on sliding it into place). <u>The painted surface of the glass scratches easily and must be placed away from the fire.</u>
- Glass firebacks use black enamel firebacks for the end, divider and bay firebacks.



## Installing the 12” Firebacks

The fireback has a notch on each side that slides over a rail at the back of the firebox.





Install each fireback using suction cups (or two hands). Place the fireback into position, making sure the notch fits over the rail. Once attached, the fireback may be slid left or right. Once all firebacks are installed, make sure they are equally spaced and fully seated.

## Installing the Bay Firebacks

NOTE: If using a fireplace with bay firebacks, install the bay firebacks before installing the 12” firebacks. The bay firebacks install in the same fashion as the 12” firebacks. Place the fireback in place, approximately 6” from the end (make sure it is the correct side – the top edge slopes down at the end). Then slide it outwards into place (see pictures below).


## Installing the Divider and End Firebacks

These firebacks use two magnets to hold each fireback in place. The magnets are shipped pre-attached to the fireplace walls.

**NOTE**: The divider firebacks have a notch at the bottom. Place it as shown below.

Install the inner glass panes before installing the end firebacks (NOTE: Remove the magnets before glass installation). The end fireback has angled top. Place the fireback with the slope facing outwards.

## *Glass Pane Installation and Removal*

This fireplace uses a dual layer of glass to provide combustion air to the fireplace and keep the exterior cool. The glass panes are packaged separately and do not use a steel glass frame.

**The appliance must be completely cool before removing the glass.**

**Do not strike or slam the glass.**

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

**Use only glass provided by Travis Industries for this appliance. Do not use substitute glass.**

### Suction Cups

**NOTE**: Suction cups are required for glass installation and removal. These are available from Travis Industries (sku 94400914).

### When to Install the Glass Panes

The glass is typically installed after all other steps have been completed. This helps ensure the glass is kept clean and away from potential damage.

(a) Fireplace should be in location and attached to power, gas, vent and intake.
(b) Install the firebacks.
**(c) Install the inner glass and test-start the fireplace. This is done to verify appliance operation only. Do not let the appliance burn for more than 5 minutes.**
(d) Remove the front inner glass.
(e) Install the crushed glass over the burner and inner media trays.
(f) Replace the front inner glass.
(g) On Pier, Bay, and Island models, install the side outer glass panes.
(h) If crushed glass is being used in the intake air channel, install it at this time.
(i) Install the remaining outer glass panes.

### Overview of Glass Panes – Category 2 Fireplaces

| Type of Fireplace | # of Glass Panes | Glass Sizing |
|---|---|---|
| **1-Sided** | 2 | TBD |
| **Pier** | 6 | TBD |
| **Full Bay** | 6 | TBD |
| **Island** | 8 | TBD |
| **2-Sided** | 4 | TBD |

**Check for the DaVinci Logo Before Installing the Glass**

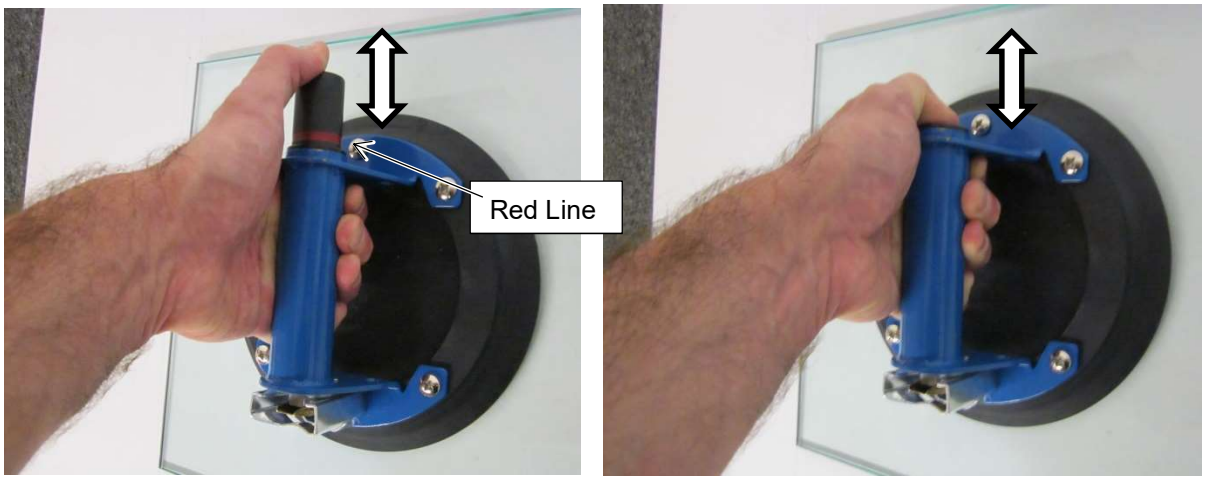
The outer piece of glass has a DaVinci logo. Make sure it is on the lower right and is facing outwards.

## Attaching the Suction Cups to the Glass Panes

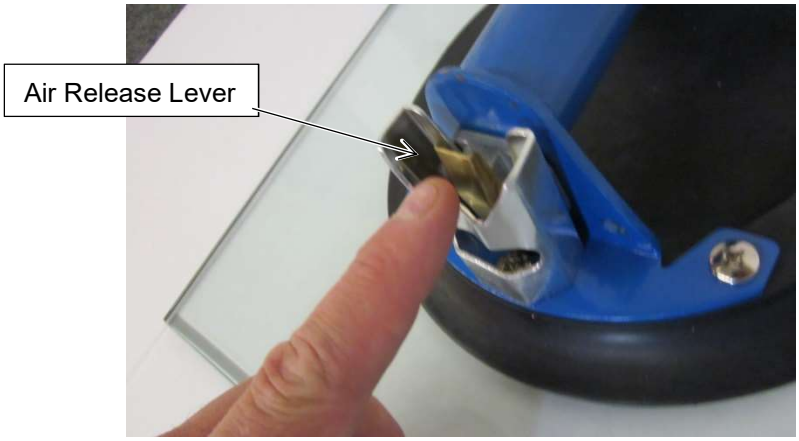
**NOTE**: Make sure the glass and suction cups are clean before attaching the suction cups. These surfaces must be clean and dry for the suction cups to work properly.

**NOTE**: The larger glass panes may require an additional helper. We recommend using 2 people with 4 suction cups when handling long glass panes (over 5' long, especially 20" tall version).

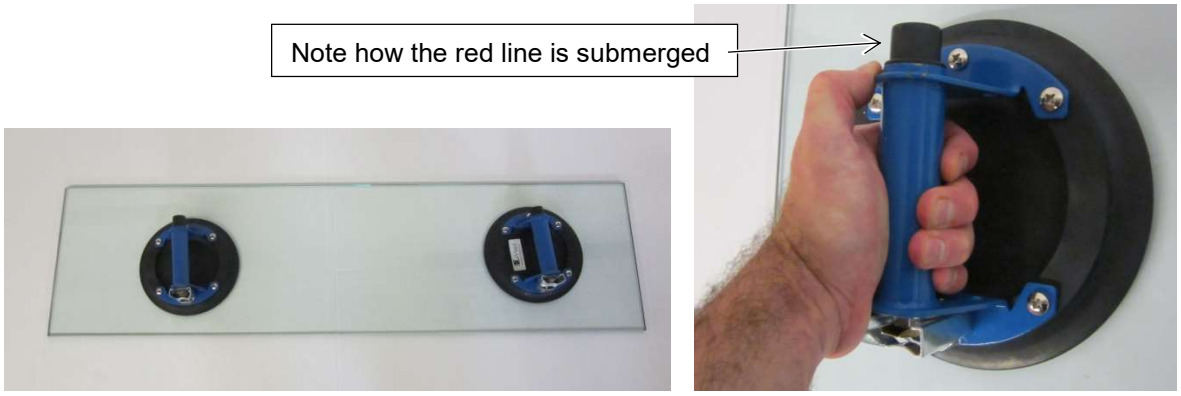
(a) Place one suction cup onto the glass panel. Press the suction button repeatedly until the red line on the suction cup submerges into the handle. This indicates proper vacuum.




(b) Repeat step "a" for the remaining suction cups. NOTE: The suction cups have a lever opposite the suction button. This lever releases air, allowing the suction cup to disengage from the glass. **DO NOT PRESS THIS LEVER UNLESS YOU ARE RELEASING THE SUCTION CUP.**




(c) Verify the suction cups are properly aligned and the red line is submerged before lifting the glass (see photos below).



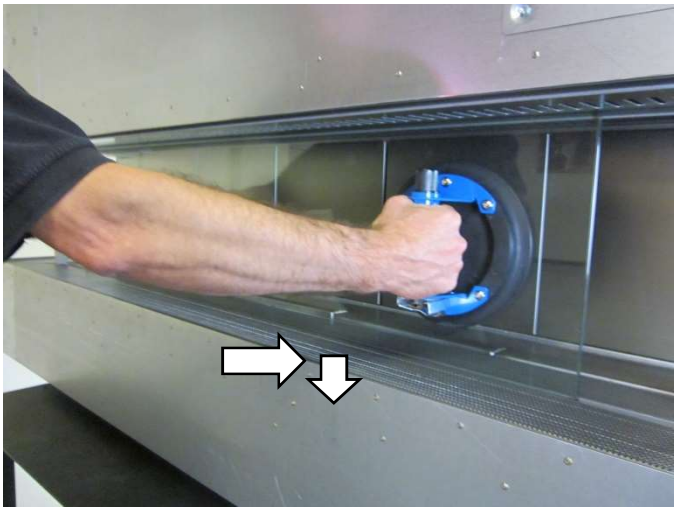
## Installing the Glass Panes Into the Fireplace

Before installing the glass, make sure to measure it to verify it is the correct piece. Refer to the section "When to Install the Glass" on page 93 to determine when to install the glass.

(a) Before installing the glass pane, **verify the lower channel is free of crushed glass or any other debris**. Any debris left in this channel will cause an air lead and may damage the glass pane.

(b) Lift the glass pane and insert it at an angle so the top edge inserts into the upper slot.

(c) Swing the lower edge of the glass pane inwards until the lower edge can insert into the lower slot.



## *Steps for Finalizing the Installation*

1. Before installing the glass, purge the gas line. This allows gas to be detected once it enters the firebox.
2. Leak test all the gas joints.
3. Follow the instructions on page 93 for "When to Install the Glass".
4. Start the fireplace.
5. Check the air shutter following the directions below.

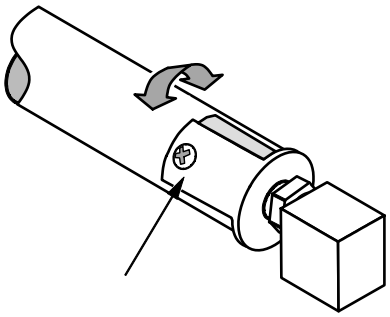
### Air Shutter Adjustment

There are several burners inside the fireplace (one burner for each foot of burner length). Each burner has its own air shutter. The air shutters are pre-adjusted at the factory for the fuel being used and probably do not need further adjustment. If the flames are sooty or blue and short, follow the directions below.

a) Let the fireplace burn for 20 minutes.

b) Check the flame height. Each center flame should be 9" to 12" tall at the highest point. Individual flames may have a different pattern, but the overall height should be similar from left to right.
**NOTE**: The flames will look different when the crushed glass is installed. Make sure the crushed glass is removed directly above the cluster of burner holes (see "Crushed Glass Installation").

c) If adjustment is needed, the fireplace will need to be shut off and allowed to cool. Remove the front outer piece of glass. Remove the media tray directly behind the glass to access each air shutter (see illustration below).
**FLAMES SOOTY** – Open the air shutter an additional 1/8" (3mm)
**FLAMES SHORT AND BLUE** – Close the air shutter an additional 1/8" (3mm)



**Loosen this screw then rotate the air shutter to adjust the air shutter.**

d) Restore the fireplace to the correct configuration and verify the flames (step "a" and "b" above).

6. Give this manual to the home owner for future reference and fully explain operation of this fireplace.
7. Turn the appliance off and install the crushed glass.

## *Crushed Glass Installation*

Crushed glass is placed over the burners and center media trays. As an option, crushed glass may also be placed over the intake air channel media trays (the area between the two panes of glass). Use only ¼" crushed glass from Travis Industries and/or other media specifically approved by Travis Industries.

### Placing Crushed Glass on the Burner and Center Media Trays

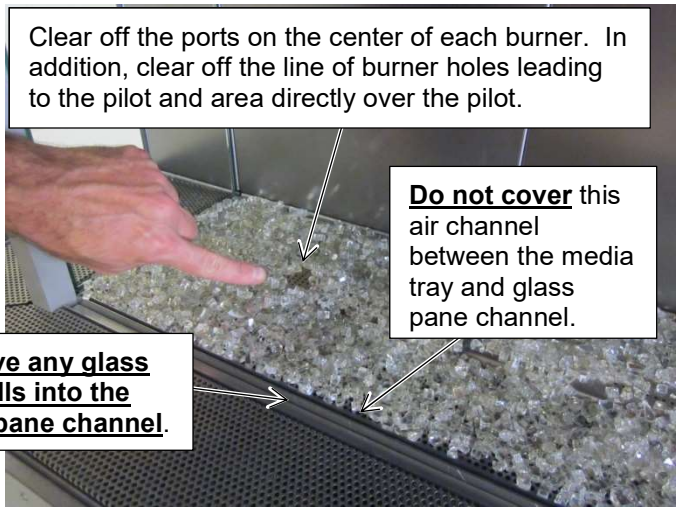
**Glass Quantity = 1.5 Pounds (0.66 Kg) Per Linear Foot (300mm)**

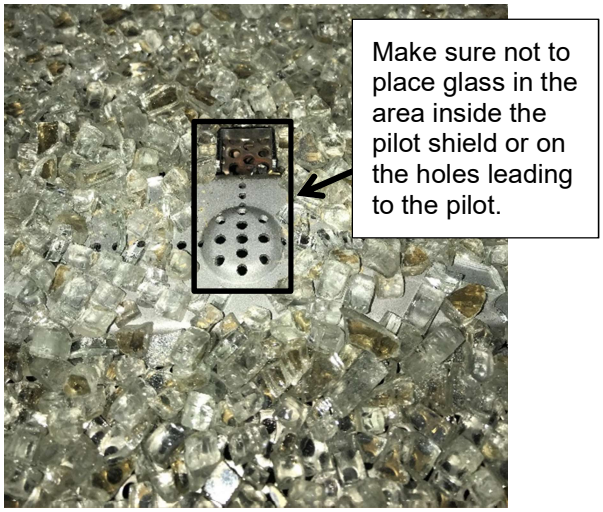
**1 Level Cup (8 fl. oz.) (240ml) = 0.95 lbs.**
**So...1 Slightly Rounded Cup = 1 lb.**

Determine the amount of glass needed for the fireplace being installed. Set this glass aside in portions to allow for an even amount of glass to be placed over the surface of the burner and media tray. NOTE: It is better to install too little glass than too much.

(a) On Pier, Island, and Bay models, make sure the side inner glass is in place. Open up a bag of crushed glass and pour it evenly on to the burner and media trays. Use a brush or glove to evenly distribute the glass over the surface.

(b) After distributing the glass, make sure to uncover the area over the center of each burner. There is a grouping of burner holes that should be left open. This makes the flames coalesce and create a taller flame pattern. On the burner next to the pilot, clear off the center burner holes and clear off the set of burner holes leading to the pilot. This open area allows the pilot ignite the burner quickly so the fireplace ignites properly.
**NOTE: Failure to clear this area will result in poor fireplace ignition. This may lead to delayed ignition "pops" or sooting.**



## Placing Crushed Glass in the Intake Channel between Panes of Glass) - OPTIONAL

**Glass Quantity = 0.75 Pound (0.33 Kg) Per Linear Foot (300mm)**
**Glass Quantity – Island, Pier, & Bay Ends = 1.25 (0.6 Kg) Pounds Per End**

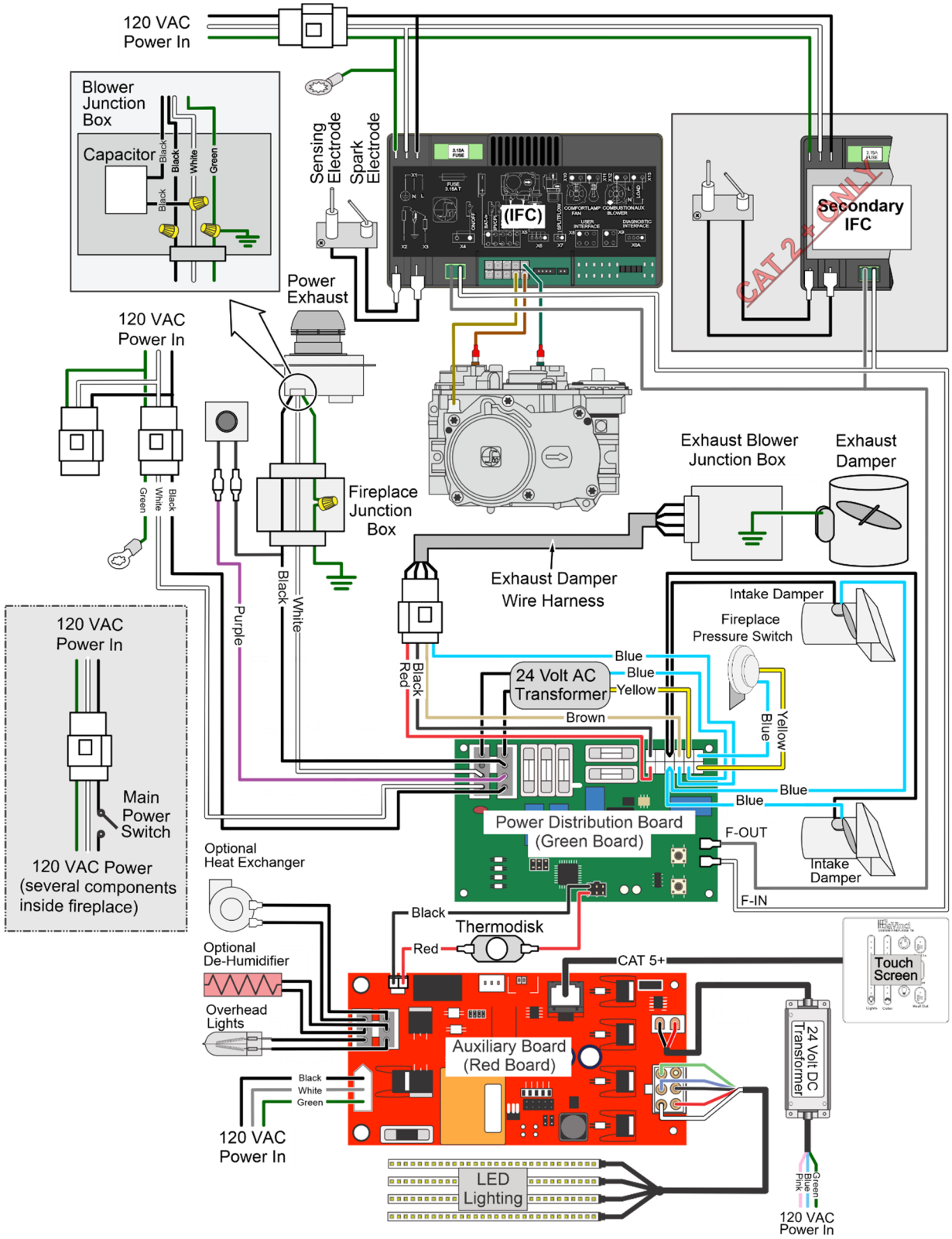
**1 Level Cup (8 fl. oz.) (240ml) = 0.95 lbs.**
**So...1 Slightly Rounded Cup = 1 lb.**

Determine the amount of glass needed for the fireplace being installed. Set this glass aside in portions to allow for an even amount of glass to be placed over the media trays in the intake channel. NOTE: It is better to install too little glass than too much.

(a) On Pier, Island, and Bay models, make sure the side outer glass is in place. Open up a bag of crushed glass and pour it evenly on to the media tray(s). Use a brush or glove to evenly distribute the glass over the surface.

## *Wiring Diagram*

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




Warning: Do not disconnect or alter the air pressure switch wiring. This is a safety component that is critical to the safety of this fireplace.

# 100 Operation

## *Before You Begin*

- Read this entire manual before you use your new heater (especially the section "Safety Precautions" on pages 4 & 5).

## *FOR YOUR SAFETY READ BEFORE LIGHTING*

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

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

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

**WHAT TO DO IF YOU SMELL GAS**

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

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

- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- If the gas valve requires repair, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

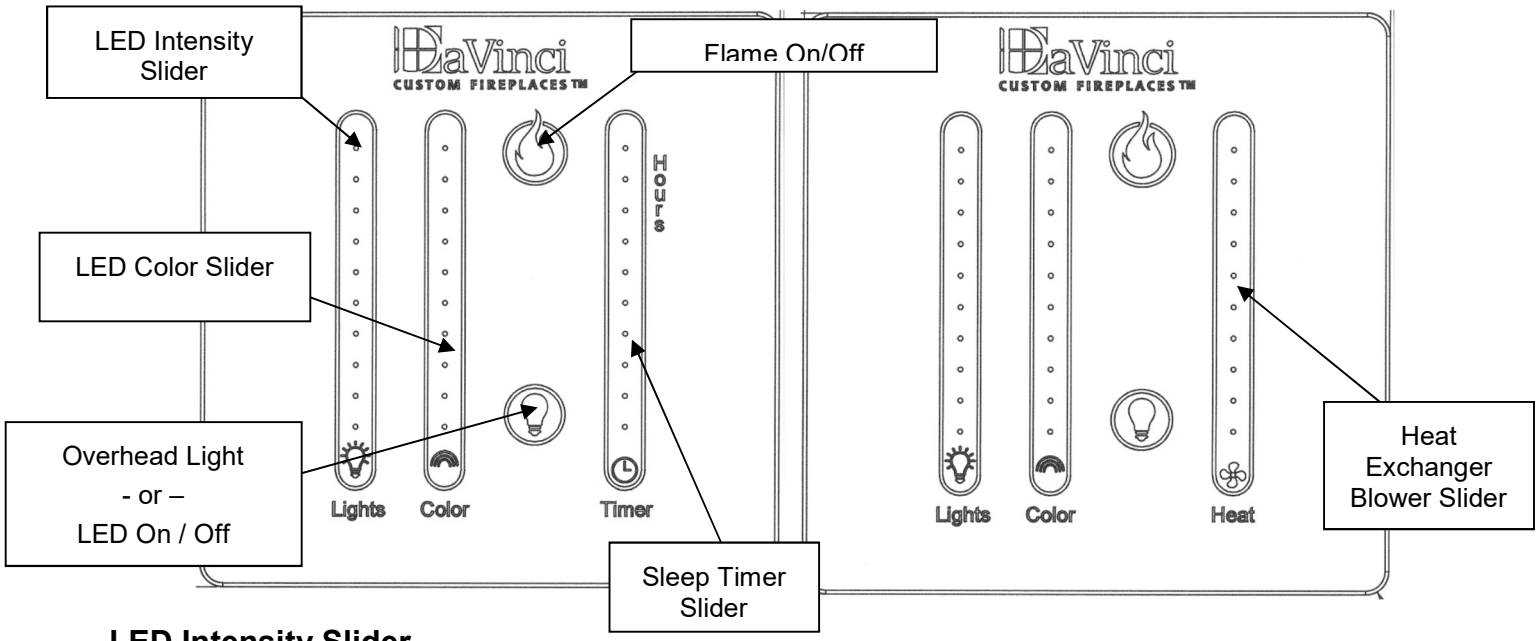
## *Starting the Heater for the First Time*

- **Condensation** may appear on the glass each time you start the heater - this is normal.
- **Blue Flames** will occur on the heater when it first comes on. After fifteen minutes the flames will turn a more realistic yellow and orange color.
- **NOTE: Whenever power is connected to the fireplace (e.g.: power outage or breaker re-set), the exhaust blower will turn on and run for approximately 6 minutes).**

## *Location of Controls*

There are two different TouchSmart controllers. The controller on the left is used for fireplaces that do not use the heat exchanger option. The controller on the right shows the controller that does utilize the heat exchanger option.

**Non-Heat Exchange Controller** **Heat Exchange Controller**




### LED Intensity Slider

Slide finger up to increase LED intensity, slide down to decrease intensity. Slide to the bottom to turn lights off.

### LED Color Slider

Slide finger up or down to cycle through LED colors

### Overhead Light (fireplaces with overhead lights)

Press this button to control the overhead lights. This button will cycle from:

OFF ➡ LOW ➡ MEDIUM ➡ HIGH ➡ OFF.

### LED On / Off (fireplaces without overhead lights)

If the fireplace is off, and you press this button once, the LEDs will turn on to their latest setting. If you press it again, the LEDs will turn off. If the burner is on, it too will turn off.

### Flame On/Off

Press this button to turn the flames ON/OFF

**The fireplace takes approximately 40 seconds to turn on after the switch is turned to the "ON" position.**

### Sleep Timer Slider (fireplaces without heat exchangers only)

Touch anywhere on the slider to activate the sleep timer. Slide finger up to increase the time before the fireplace turns off, down to decrease time. Each light on the slider represents (1) hour.

### Heat Exchanger Blower Slider (fireplaces with optional heat exchanger only)

Touch anywhere on the slider to activate the heat exchanger blower. Slide finger up to increase the blower speed, down to decrease speed.

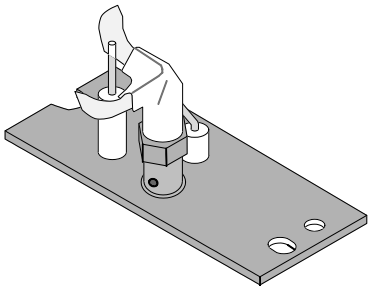
**DANGER HIGH VOLTAGE:** Disconnect power before attempting maintenance or repair.

## *Yearly Service Procedure*

- Failure to inspect and maintain the fireplace may lead to improper combustion and a potentially dangerous situation. We recommend the following procedures be done by a qualified technician.

**THIS FIREPLACE IS NOT USER SERVICEABLE:** Contact your dealer for servicing.

1. Inspect the pilot flame. It should touch approximately 3/8" of the top of the flame sensor. If it does not, contact your dealer for service.
2. Shut off gas to the fireplace and let it cool for 15 minutes. Remove the glass (see page 93).
3. Remove crushed glass. If excessive sooting is found, the fireplace will require adjustment. Contact your dealer.
4. Inspect the burner and remove any debris.
   - Make sure the burner is not warped, cracked, or damaged.
   - Check the firebox and area around the pilot to make sure there is no warping or damage.
   - If any problem is found, discontinue use and contact your dealer for service.
5. Replace the crushed glass. Clean and replace the glass (see Glass Cleaning on page 102). If the glass is damaged, replace. Make sure the gasket along the perimeter of the glass contacts the face of the firebox and forms an air-tight seal. If it does not, re-align or replace the gasket to insure an air-tight seal.
6. Inspect the area behind the access door. Clean if necessary. Check the gas control valve and the gas lines. If damage is found, discontinue use and contact your dealer for service. Clean the air channels, ducts, and blower (if applicable).
7. Start the main burner. After 15 minutes the flames should be orange/yellow and not touch the top of the firebox. If the pilot or main burners do not burn correctly, contact your dealer for service. Monitor blower operation.
8. Remove any debris or vegetation near the vent termination. Contact your dealer if any sooting or deterioration is found near the vent termination.

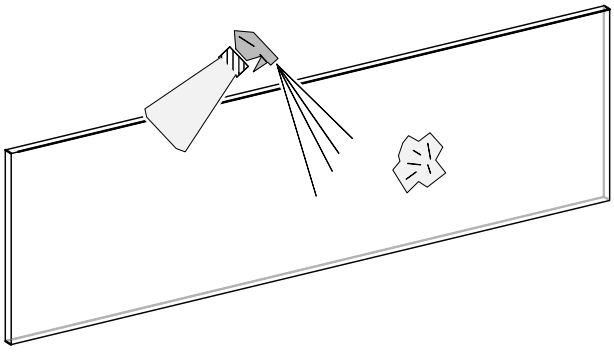


## *Glass Cleaning*

**The appliance must be completely cool before cleaning the glass.**

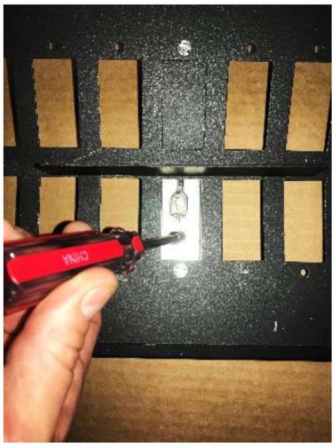
The glass may be cleaned with a non-abrasive cleaner. To clean the inside of the glass, remove the glass, place it on a non-scratching surface, and clean the inside surface.

**WARNING**: do not operate the fireplace without the glass in place.



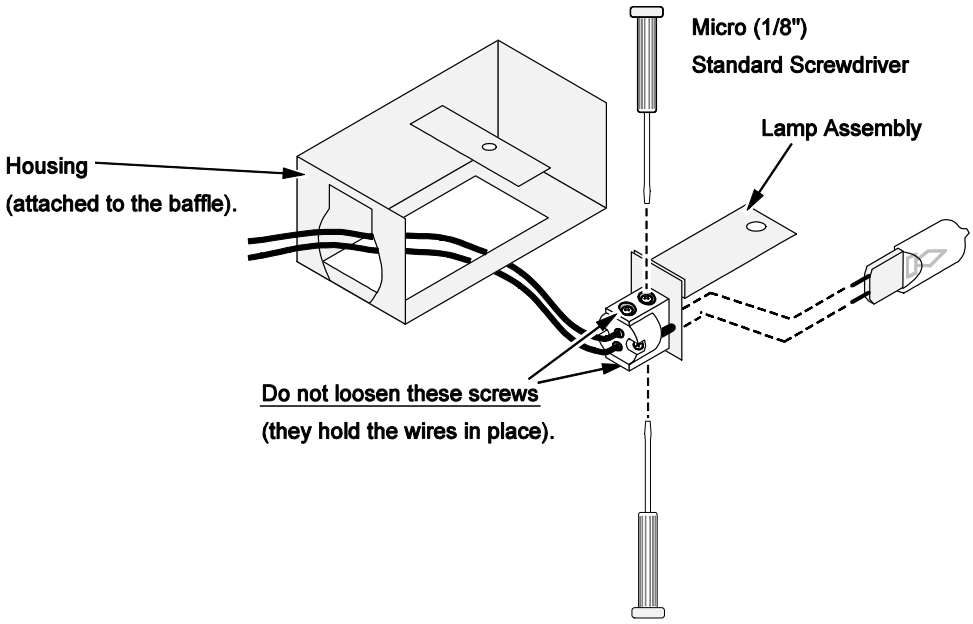
## *Bulb Replacement*

1 Remove the screw securing the lamp assembly to the housing (set aside for reinstallation). Work the lamp assembly out through the hole in the baffle.



2 There are two brass screws (one on each side) that secure the bulb to the lamp assembly. Use a small standard screwdriver to loosen the screws.

**NOTE:** Do not loosen the screws that secure the wire to the ceramic lamp base.




3 Remove the bulb from the lamp base by pulling the bulb straight up from the base (do not twist).

4 Install the replacement bulb into the base. Secure the bulb by tightening the brass screws loosened in step 3.

**NOTE:** DO NOT TOUCH THE BULB WITH YOUR FINGERS. Oils from your skin will shorten the bulb's life.

Return the fireplace to its correct configuration.

## *Replacement Parts*

Caution: Use only Travis Industries replacement parts. Do not use substitute materials.

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

Contact your local Travis Industries Dealer for Replacement Parts

# 104 Limited 7 Year Warranty

Register your TRAVIS INDUSTRIES, INC. Limited 7 Year Warranty online at **traviswarranty.com**. TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

**Check with your dealer in advance for any costs to you when arranging a warranty call.**
**Mileage or service charges are not covered by this warranty. This charge can vary from store to store.**

| | Warranty Period | | | | | | | | Component |
|---|---|---|---|---|---|---|---|---|---|
| | 2 yrs. | | 5 yrs. | | 7 yrs. | | 90 Days | | |
| Parts & Labor P=Parts L= Labor | P | L | P | L | P | L | P | L | |
| | ✓ | ✓ | | | | | | | Burner assembly, Air Shutter Assembly, Main Burner Orifice, Firebacks |
| | ✓ | ✓ | | | | | | | Electrical Assembly (within appliance structure or venting): Wire Harness, Snap Disks, Rheostats, Exhaust Fan, LED Lighting, TouchSmart Controller, Heat Exchanger Fan (if applicable) |
| | ✓ | ✓ | | | | | | | Gas Control Assembly |
| | ✓ | ✓ | | | | | | | Glass (thermal shock only) |
| | ✓ | ✓ | | | | | | | Media: Stones, Crushed Glass |
| | ✓ | ✓ | | | | | | | Accessories: Fireart |
| | ✓ | ✓ | ✓ | ✓ | | | | | Optional Heat Exchanger (if applicable) |
| | ✓ | ✓ | ✓ | ✓ | ✓ | | | | Firebox Assembly |
| | | | | | | | ✓ | | All replacement parts beyond warranty period |

## CONDITIONS & EXCLUSIONS

1. This new gas appliance must be installed by a qualified gas appliance technician. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty.
2. This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized DaVinci dealer.
3. Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. The installer must ensure the appliance is burning as per the rating tag at the time of installation. Over-firing (operation above the listed BTU rate) of this appliance can cause serious damage and will nullify this warranty.
4. The warranty, as outlined within this document, does not apply to the chimney components (except exhaust fan) or other Non-DaVinci accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized DaVinci retailer before installation. Contact the vent manufacturer for vent warranty questions.
5. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, rooftops, wind, hills or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
6. This Warranty is void if:
   a. The unit has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
   b. The unit is subject to submersion in water or prolonged periods of dampness or condensation.
   c. Any damage to the unit, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
7. Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
8. This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gasketing, corroded or cracked logs, embers, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, drilling of the orifices, or the use of fuel other than that for which the unit is configured. .
9. Damage to surfaces caused by fingerprints, scratches, melted items, or the use of cleaners other than denatured alcohol is not covered in this warranty.
10. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
11. This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the gas appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
12. Any statement or representation of DaVinci products and their performance contained in DaVinci advertising, packaging literature, or printed material is not part of this 7-year warranty.
13. This warranty is automatically voided if the appliance's serial number has been removed or altered in any way.
14. No dealer, distributor, or similar person has the authority to represent or warrant DaVinci products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
15. TRAVIS Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components.
16. If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
17. THIS 7 YEAR WARRANTY IS THE ONLY WARRANTY SUPPLIED BY TRAVIS INDUSTRIES, INC., THE MANUFACTURER OF THE APPLIANCE. ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ARE HEREBY EXPRESSLY DISCLAIMED AND PURCHASER'S RECOURSE IS EXPRESSLY LIMITED TO THE WARRANTIES SET FORTH HEREIN.

## IF WARRANTY SERVICE IS NEEDED:

1. If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your DaVinci dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the model name and serial number.
2. TRAVIS INDUSTRIES, INC. has the option of either repairing or replacing the defective component.

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