



MUST READ BEFORE



FRAMING

IMPORTANT INFORMATION



EST. 2004

ontario hearth ltd.

Regency City Series New York 40

CV40E-NG11 / CV40E-LP11

FRAMING

DIMENSIONS

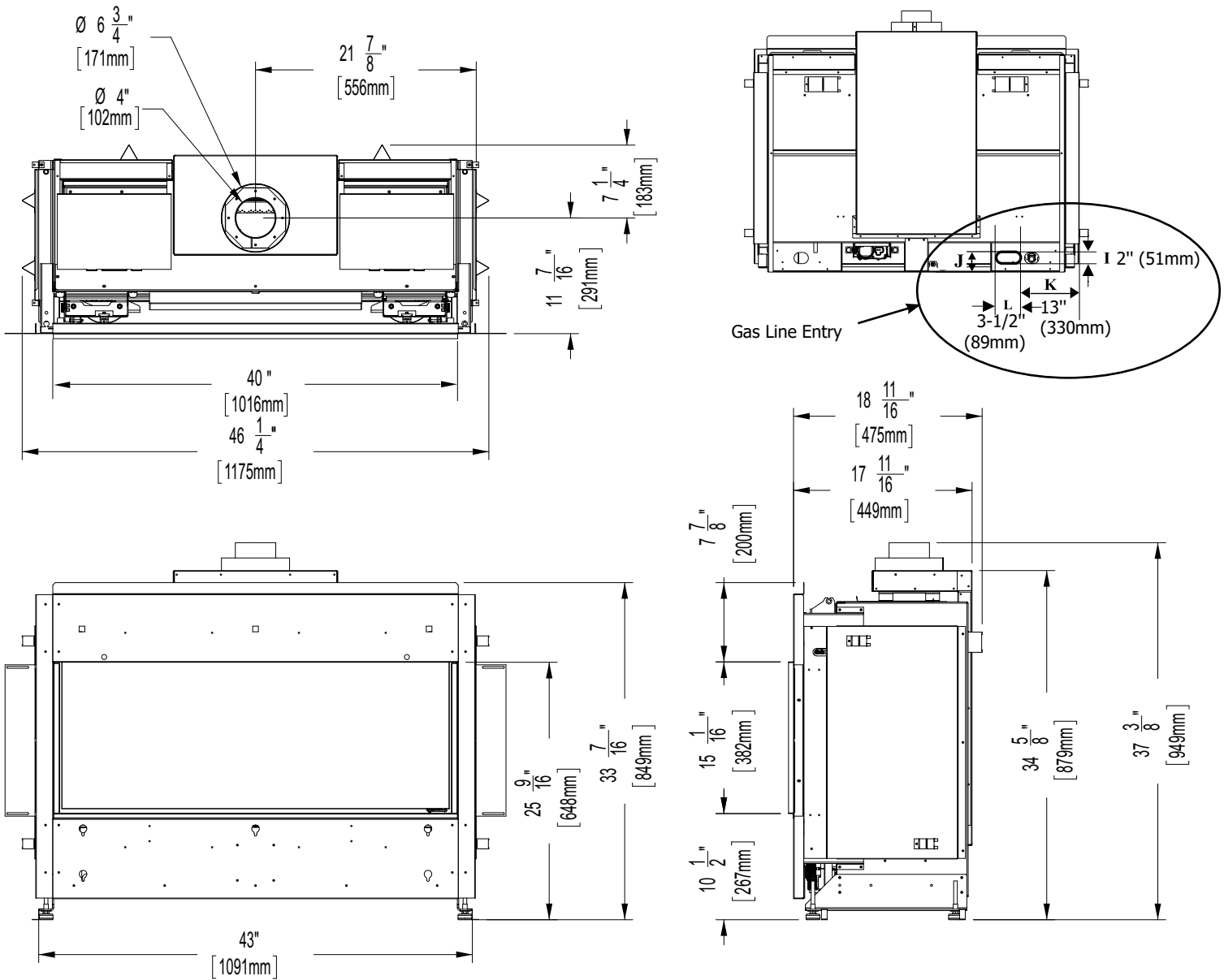
SPECIFICATIONS

HEAT RELEASE REQUIREMENTS

**QR LINK FOR
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OF SPECIFICATIONS:**

dimensions

CV40E Dimensions



**Note: Electrical connection on left hand side of the appliance.
A metal receptacle box is supplied/installed with the appliance to make all 120 volt electrical connections.**

Note: Height Dimension may vary depending on the height of the leveling legs.

Dimensions will appear as (inches)" / (metric)mm throughout this manual. The inches are rounded to the nearest 1/16" when converted, when greater accuracy is required, use the metric dimensions.

Note: These units are non-load bearing.

ALL PICTURES / DIAGRAMS SHOWN THROUGHOUT THIS MANUAL ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENTS.

Ventilation Openings

Regency's patented Cool Wall system releases warmth at ceiling level. This system reduces excessive radiant heat in front of the fireplace so you can enjoy your fireplace more often.

- Design your own chase vent solution to suit your home
- Use optional front or left & right side chase vent grills
- Release warmth into the room discreetly

Ventilation Opening Locations

The following are examples of how the ventilation openings may be placed above the fireplace.

The air travelling through the heat exchanger is heated by the fireplace and then directed out the back of the fireplace. The combined warmed air is then vented back into the room.

If using the optional heat wave kit, this does not reduce the size of the ventilation opening. The ventilation opening(s) must be a minimum 120 square inches regardless.



Front Exit

The ventilation opening may be placed in front ensuring it meets the 120 square inch opening & is located 0-3" (76mm) from the enclosure ceiling.



Side Exit (Left/Right)

Ventilation openings, when placed on both sides, must be of the same size. They must have an equal split (50/50) free air opening to balance air flow. A ventilation opening may never be on one side only.

The ventilation openings cannot be any smaller than 6" (152mm) wide to equal the total area of 120 square inches of free open area.

Example: 6" (152mm) wide x 10" (254 mm) High = 60 square inches per side of free open area. A second ventilation grill is installed on the other side to =100%.

The ventilation openings must be located 0-3" from the enclosure ceiling.



Top Exit

The ventilation opening may be short of the ceiling as shown below. Minimum opening height must be 1-1/2" (38 mm) measured from top of enclosure to the ceiling and must be in open in front and both sides to meet the minimum 120 square inches free open air requirement.



The ventilation opening may be fully open at the top of the enclosure. This type of ventilation opening would be used when the top of the enclosure is not visible from above and where the ceiling within the room is higher than normal. When creating this type of ventilation opening, measures should be in place to avoid having objects of any type falling or be thrown into the ventilation opening. Mesh screen or other preventative measures should be put in place.



The ventilation opening may be placed on top ensuring it meets the 120 square inch opening. This type of ventilation opening would be used when the top of the enclosure is visible from above and where the ceiling within the room is higher than normal.



installer's information

Chase Enclosure

When choosing to install the ventilation openings from the front or both sides, The top of the ventilation opening cannot be any lower than 0-3" from the top of the chase enclosure for all installations.

Minimum height of enclosure from base of appliance is 63".

A minimum 120in² opening in the enclosure is required to maintain safe operating temperatures. This can be achieved in a number of ways including the examples shown in this manual.

IMPORTANT:

Exterior wall/Alcove enclosure: When installing into an exterior cavity or alcove enclosure (ceiling, back and sides), regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, wood studs, etc. to prevent heat from escaping anywhere above /through the enclosure other than the required grill / ventilation opening.

Internal chase: When installing as an internal chase framing installation ,regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, on the rear wall of the chase to eliminate heat escaping into the rear wall cavity. If the chase is extended to the ceiling ,the ceiling will also need to be finished in a manner to prevent heat escaping into floor joist/attic space.

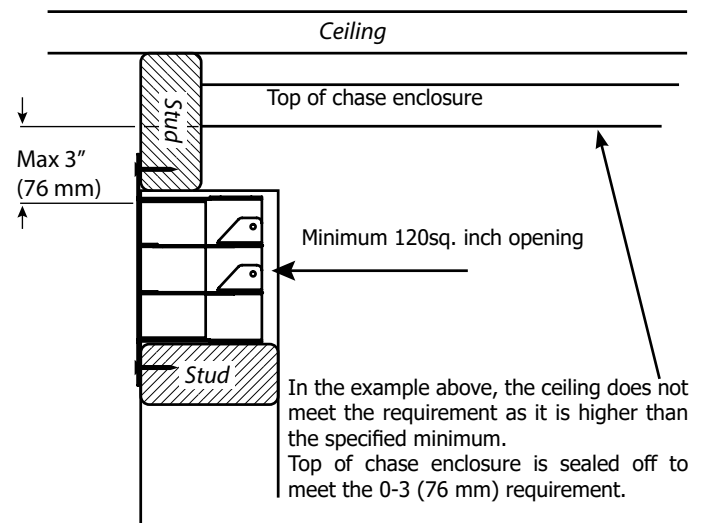
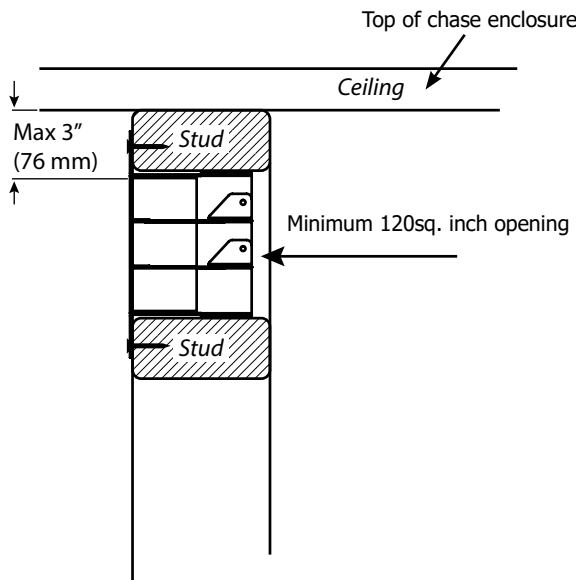
One of the following methods must be used to prevent the heat from escaping.

- If choosing drywall, ensure that the drywall is butt up tight with no gaps.
- Plywood, wood studs, etc. installed tightly with no gaps.

As this appliance has been designed with all hot air escaping through the chase enclosure ventilation/grill openings only, if hot air is trapped as a result of the hot air escaping through joints, crevasses, open studs, or other openings within the enclosure above, this will change the clearances within the enclosure causing the enclosure to overheat. It is vital that all the hot air from within the enclosure exits through the ventilation openings only.

Ensure that the ventilation openings are made as such to prevent debris, objects from falling into the enclosure.

Warning: DO NOT cover or place objects in front of the ventilation opening air outlet(s).



Clearances

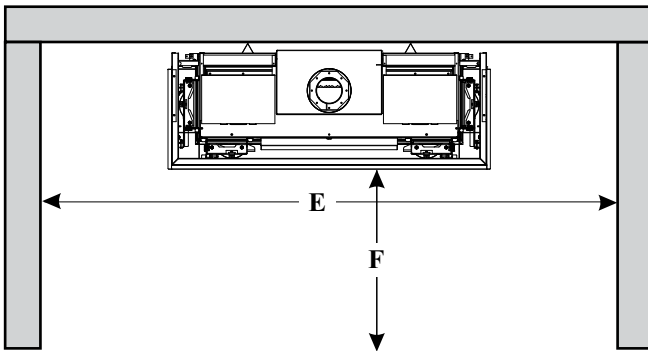
The clearances listed below are minimum distances unless otherwise stated.

A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

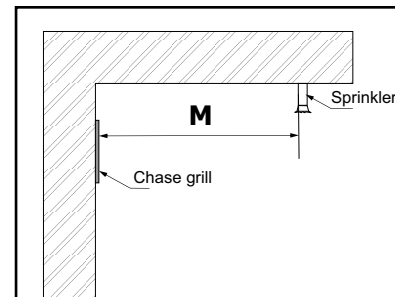
Clearance: Single Sided	Dimension	Measured From:
A: From Floor	Min. 0"	Bottom of Fireplace Opening
A1 : Mantel Height (min.)	**	Top of Fireplace Opening
B: Sidewall (on one side)	8-1/2" (216mm)	Side of Fireplace Opening
C: Enclosure Width (min.)	46-3/4" (1187mm)	Minimum inside dimensions
D: Mantel Depth (max.)	**	
E: Alcove Width	84" (2134mm)	Side wall to side wall (min.)
F: Alcove Depth	36" (914mm)	Front of Unit
G: To Enclosure Ceiling (min/max)	0-3" (0-76mm)	From top of enclosure
H: Convection Air outlet	120 sq. inches (min)	* Top/front or side of enclosure
I: Enclosure Depth (min.)	19" (483mm)	Minimum inside dimensions
J: Opening Height	15-1/16" (383mm)	Bottom/Top of Fireplace Opening
K: To Ceiling (min) All 3 sides	1-1/2" (38mm)	To Top of Ceiling
L: Chase Enclosure (min.)	63" (1600mm)	From base of unit/floor
M: Clearance to sprinkler head (Min.)	36" (914mm)	Perpendicular from chase grill
Hearth	0"	No hearth required
** See mantel clearances chart in this manual		

Flue Clearances to Combustibles	
Horizontal - Top	3" (76mm)
Horizontal - Side	2" (51mm)
Horizontal - Bottom	2" (51mm)
Vertical	2" (51mm)
Passing through wall/floor/ceiling - when firestop is used.	1-1/2" (38mm)

* A minimum of 120 square inches of open area, not lower than 3" (76 mm) from top of enclosure, required for all installations — this can be achieved by having an open area in front, both sides, and/or above as shown in the four diagrams on the next page.



Alcove



Side View

The **HeatWave** Duct Kit has different clearance and framing requirements, check the **HeatWave** manual for details.

Caution Requirements

The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

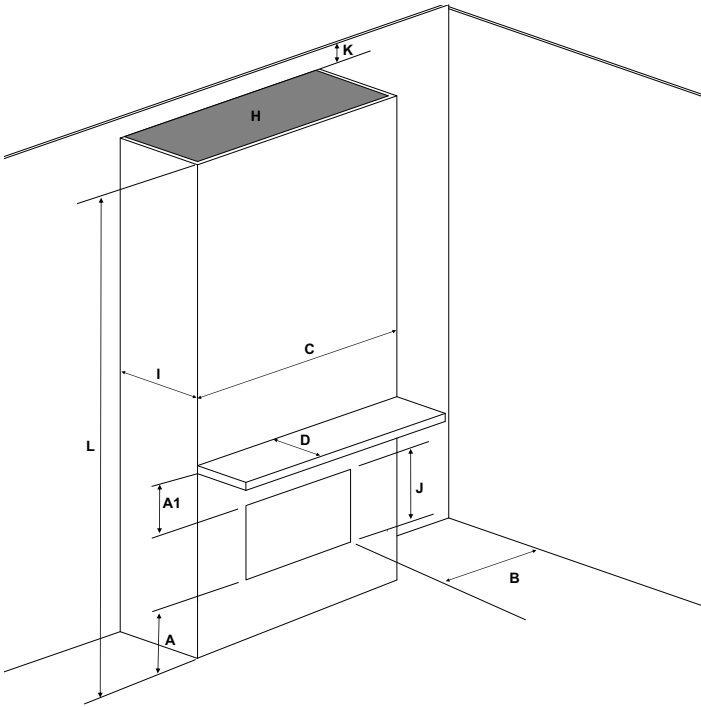
WARNING

Fire hazard is an extreme risk

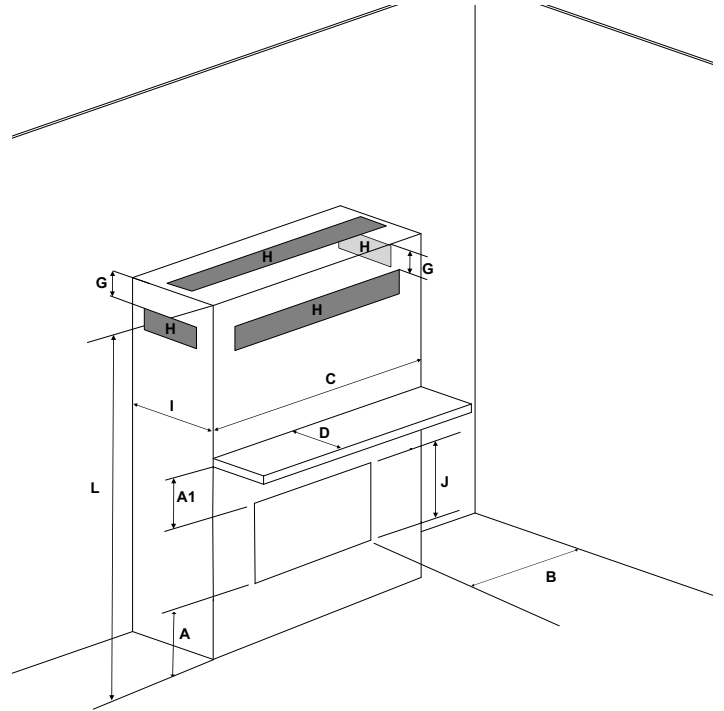
if these clearances (air space) to combustible materials are not adhered to. It is of greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

installation

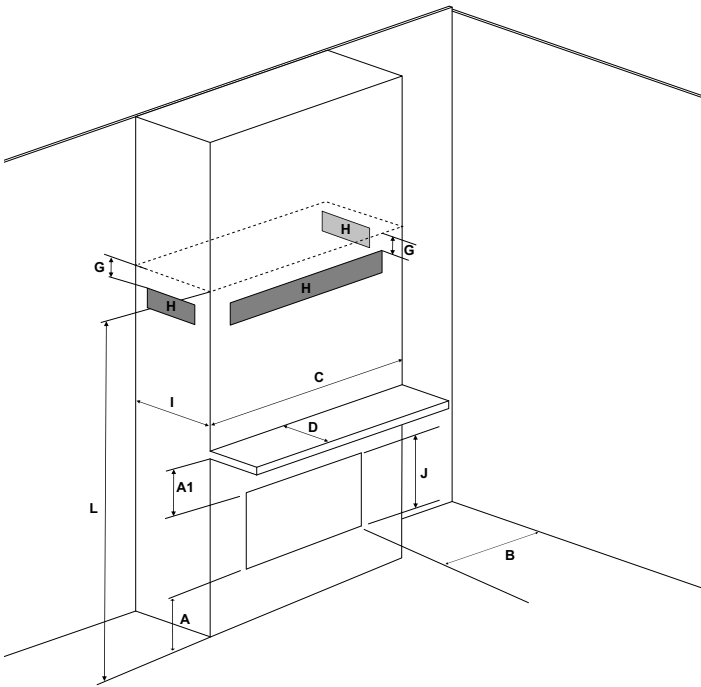
Clearances



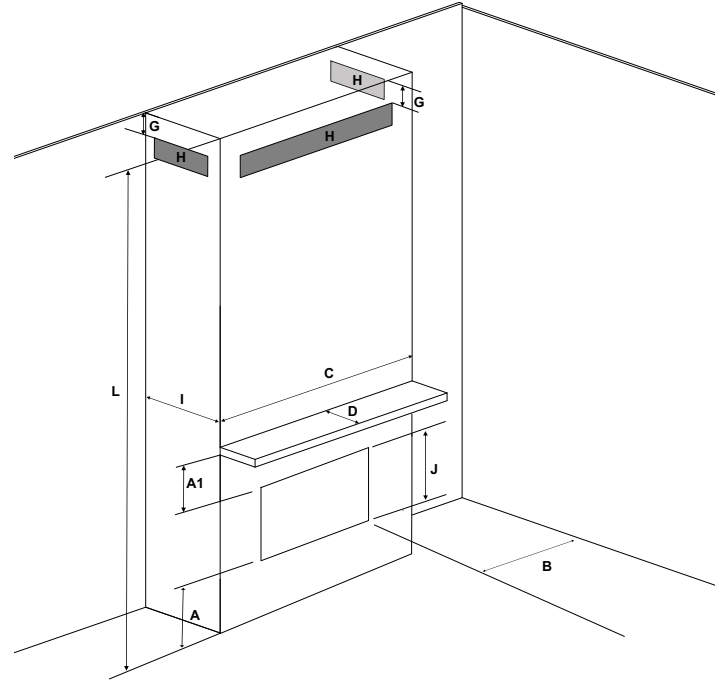
Floor to ceiling with top ventilation opening



Low framing with ventilation opening in front/2 sides or top



Full framing with low ventilation opening in front or 2 sides



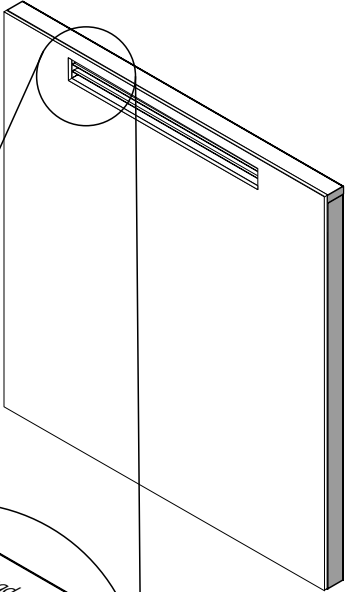
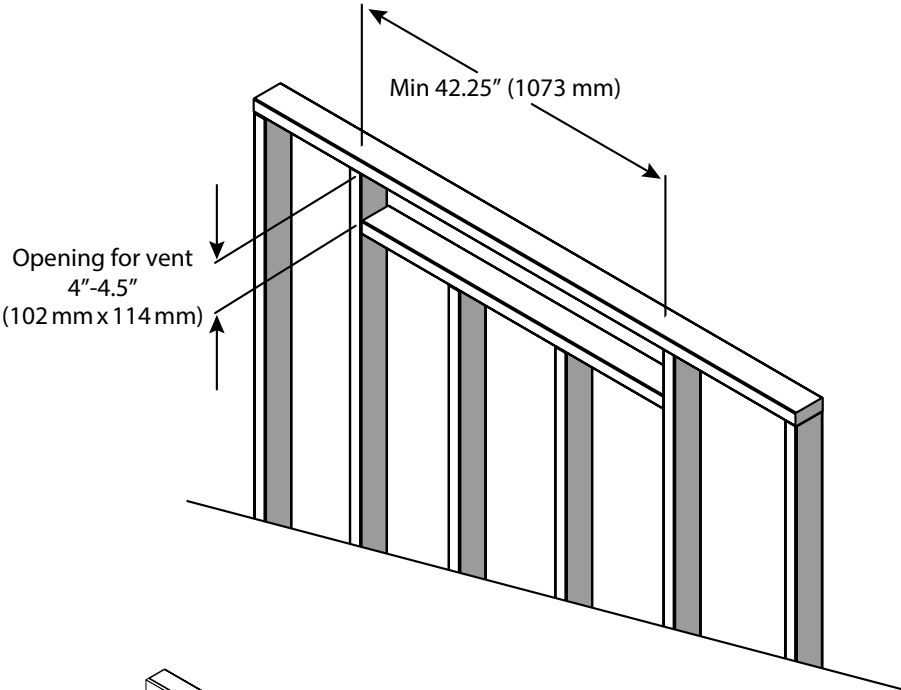
Full framing with ventilation opening in front or 2 sides

Note: The ventilation opening may only be placed above, on both sides and in front as shown above. Ventilation grills can never be placed behind the appliance.

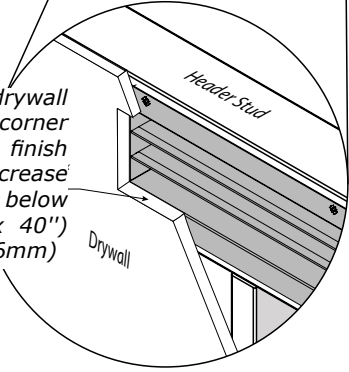
Optional Flush Front Chase Vent Installation - Part #657-991 (White)

This optional flush front chase vent grill is designed so that only the grills are exposed. The 4 flanges in front which secure the chase vent grill to the stud work is covered by the drywall to give a seamless look.

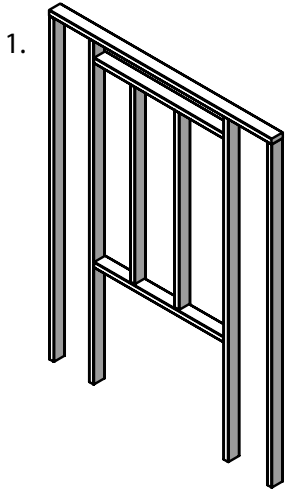
Framed opening must be between 4" (102 mm) and 4.5" (114 mm) tall, and at least 42.25" (1073 mm) wide to accommodate the chase vent. The top of the chase vent opening must be 3" or less from the top of the chase enclosure.



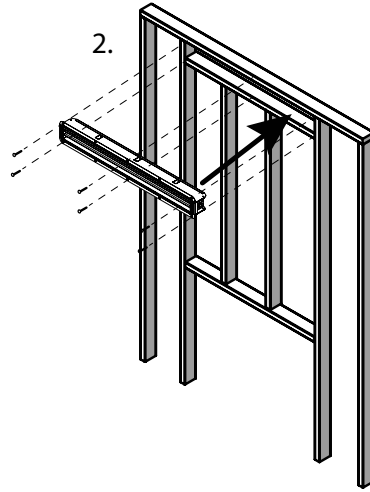
Finish edges of drywall with trim or corner bead. Edge finish must not decrease opening area below 130in (3.25" x 40") or (83mm x 106mm)



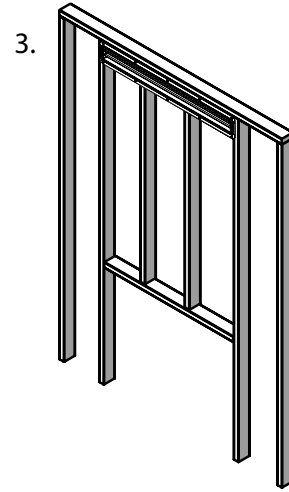
installation



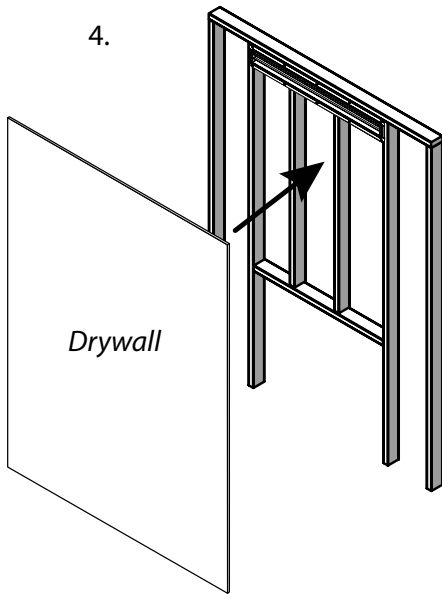
Frame opening for vent
(See Vent Framing Clearances Page)



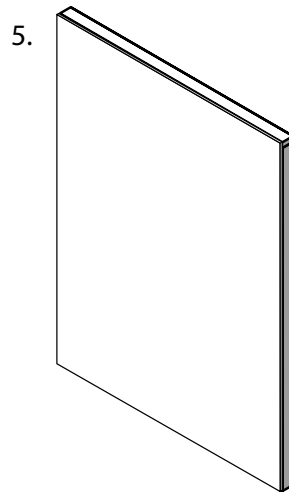
Screw Chase vent to Framing



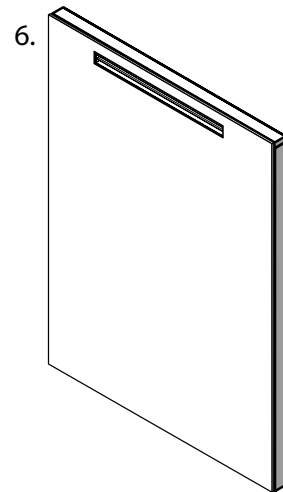
Use at least 3 sets of screws
to keep the vent flat against framing



Frame wall with finishing material



If necessary, mark where the
chase vent is located before
fixing drywall in place



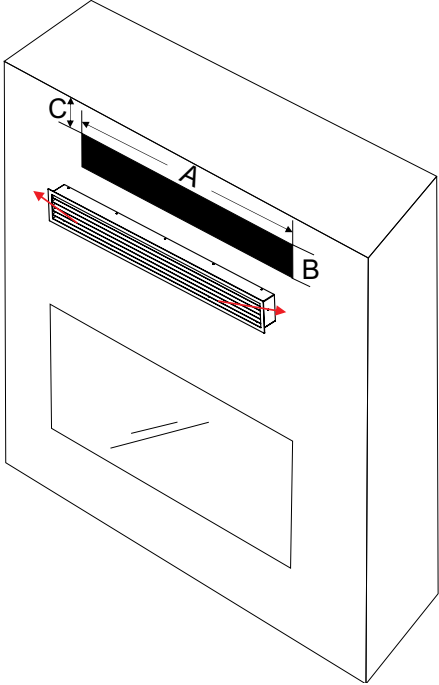
Cut hole in finishing material
around inside of chase vent.
Finish edges around opening

Optional Front Grill Installation - Part #656-991 (Black)

This optional grill meets the requirement of the 120 square inches required for the enclosure in all installations and is designed to keep the enclosure cool. In this application, both the flange and screws to secure the grills are exposed as this grill is designed to be installed after the finished facing has been placed on the wall.

To install the front grill - frame an opening of 4-3/8" H x 39-1/8" W (111mm H x 994mm W).

The finished facing material should be attached and be the same size as the framed opening to eliminate gaps. Install the grill and secure in place with one screw on either side, installed from the front.



DIMENSIONS	
A	39-1/8" (994mm)
B	4-3/8" (111mm)
C	Maximum 3" (76mm) from top of enclosure.

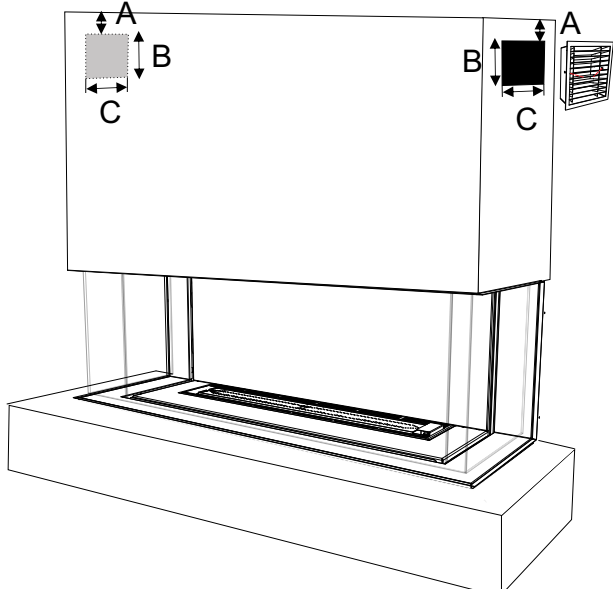
Secure with screws from the front through the sides.

Optional Side Grill Installation - Part # 656-992 (Set of 2/Black)

These optional grills meet the requirement of the 120 square inches required for the enclosure in all installations and are designed to keep the enclosure cool. In this application, both the flange and screws to secure the grills are exposed as this grill is designed to be installed after the finished facing has been placed on the wall.

To install the side grills - frame an opening of 8-5/16" H x 8-5/16" W (211mm H x 211mm W).

The finished facing material should be attached and be the same size as the framed opening to eliminate gaps. Install the grill and secure in place with one screw on either side, installed from the front through the louvers. Repeat steps to install the second grill to the other side of the chase.



DIMENSIONS	
A	Maximum 3" (76mm) from top of enclosure.
B	8-5/16" (211mm)
C	8-5/16" (211mm)

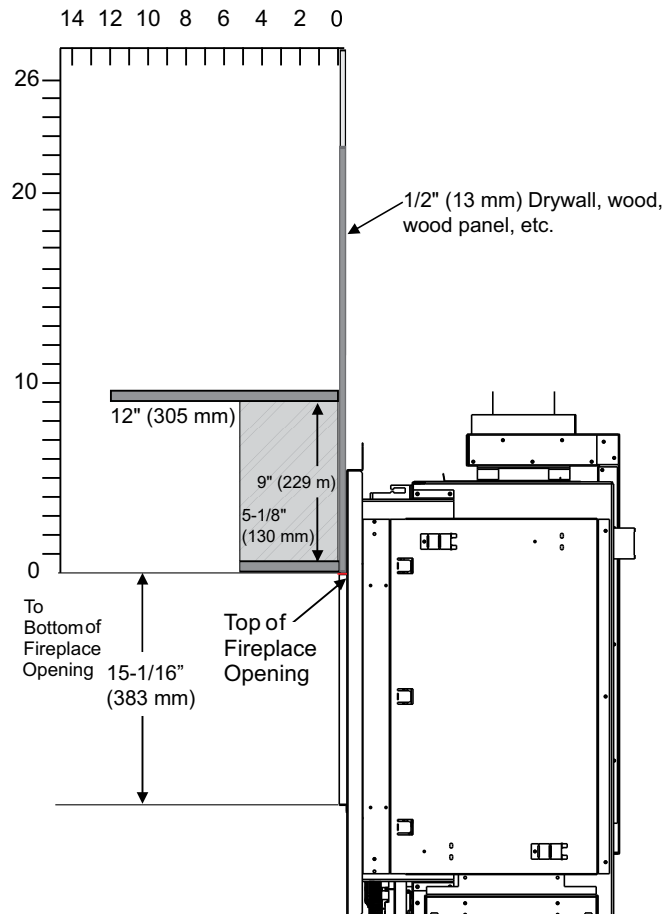
Unit may not be exactly as shown, but the drawing depicts the process.

Secure with screws through louvers to the sides.

installation

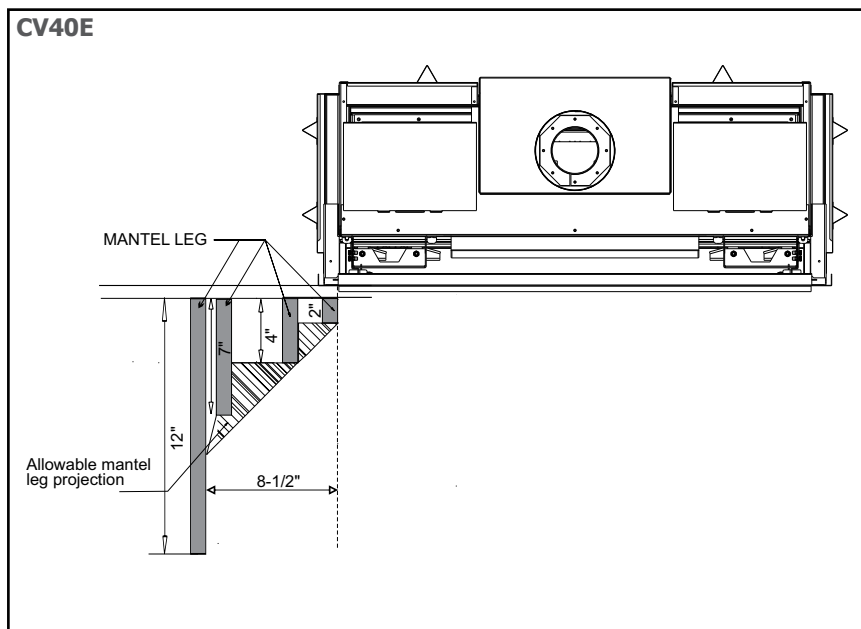
Mantel Clearances

Combustible mantel clearances from top of front facing are shown in the diagram on the right.



Mantel Leg Clearances

Combustible mantel leg clearances as per diagram:



Framing Dimensions

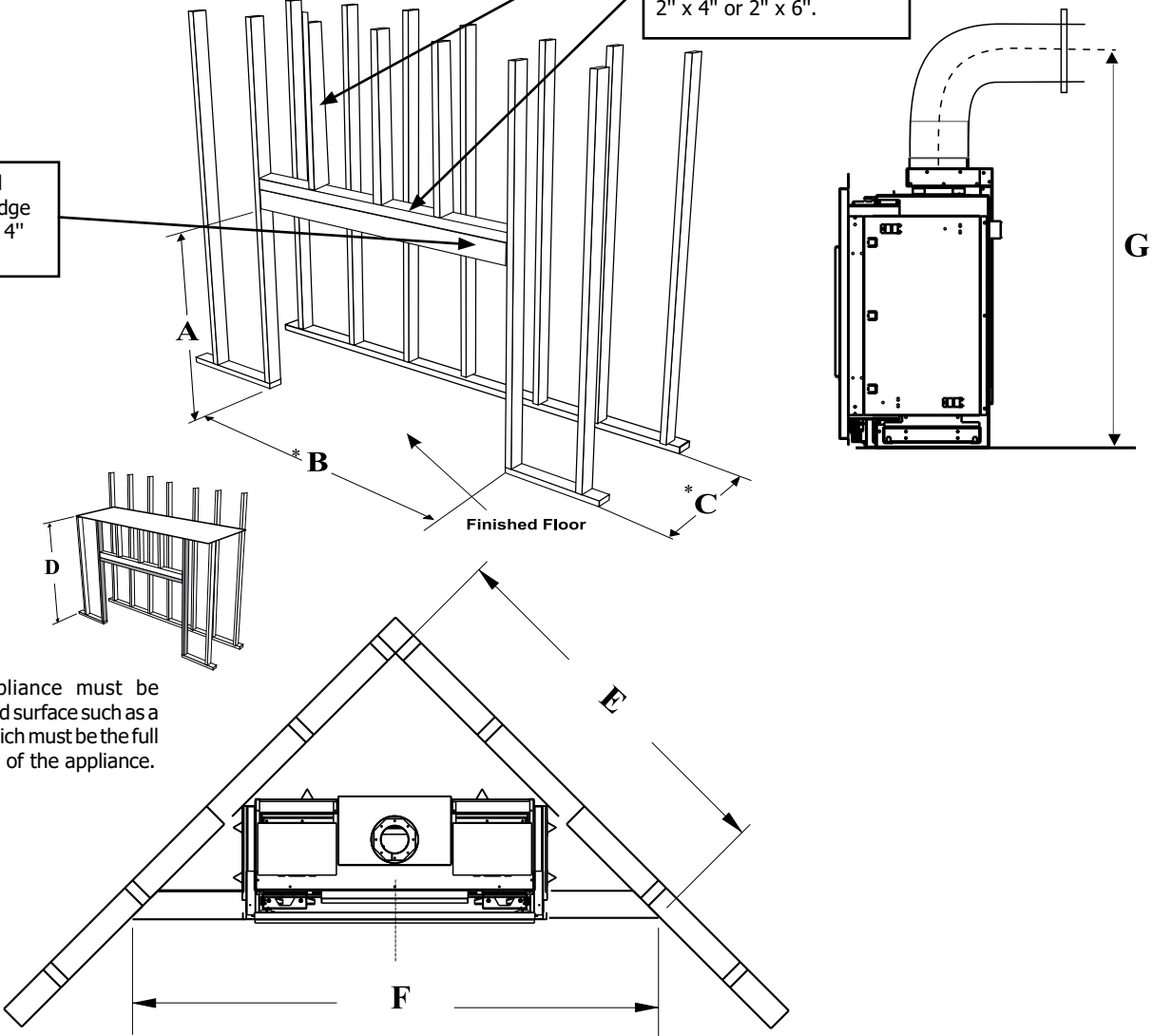
NOTE: Framing may be constructed of combustible material (ie. 2 x 4) and does not require steel studs.

Framing Dimensions	Description	CV40E
A	Framing Height	37-3/8" (949mm)
B*	Framing Width	46-3/4" (1187mm)
C*	Framing Depth	19" (483mm)
D	Minimum Height to Combustibles	63"(1600mm)
E	Corner Wall Depth	55" (1396mm)
F	Corner Facing Wall Width	77-3/4" (1974mm)
G	Vent Centerline Height	56-1/4" (1429mm)

Note: A combined minimum of 120 square inches of open area is required for the convection air outlet to cool the enclosure. Ensure clearances for Convection Air Outlets are met. See clearances CV40E (single sided) in this manual as there are different methods as to how this can be achieved.

Maximum material dimensions 2" x 4" for wood studs in front. Studs behind and to the side can be either 2" x 4" or 2" x 6".

Note: Wood header on edge may be 2" x 4" or 2" x 6".



Note: This appliance must be installed on a solid surface such as a plywood floor which must be the full width and depth of the appliance.

* The framing depth/width does not take into account dry wall/wood or similar materials against the back /side wall. The framing depth will need to change based on the thickness of the material
 (example: B - 46 3/4" framing width +1/2" drywall = 47 3/4")
 (example: C - 19" framing depth +1/2" drywall = 19 1/2")

installation

Wall Board/Drywall Installation

WARNING! Risk of Fire! Comply with all minimum clearances to combustibles as specified.

Finishing Instructions

It is important to follow the framing and finishing instructions to ensure proper placement of fireplace into the surrounding framing/finishing materials. Wall board materials 1/2 in. thick are specified in this installation manual to properly align with the optional finishing methods offered with this appliance. The CV40E may be finished to the appliance opening with 1/2 inch thick drywall.

- Ensure that the back and side clearances are maintained.

WARNING! Risk of Fire! Maintain specified air space clearances to combustibles. Inadequate air space could cause overheating and fire.

DO NOT use screws more than 3/4 inch in length on the lower access cover panel. Longer screws may penetrate gas line or damage valve or electrical components.

Note: It is acceptable to use a high temperature silicone sealant to adhere drywall to lower access cover panel.

The appliance is designed to be used with 1/2 in. wall sheathing materials such as drywall, plywood, wood composites, or non-combustible materials. Thicker materials may be used. Refer to facing and finishing details in this manual.

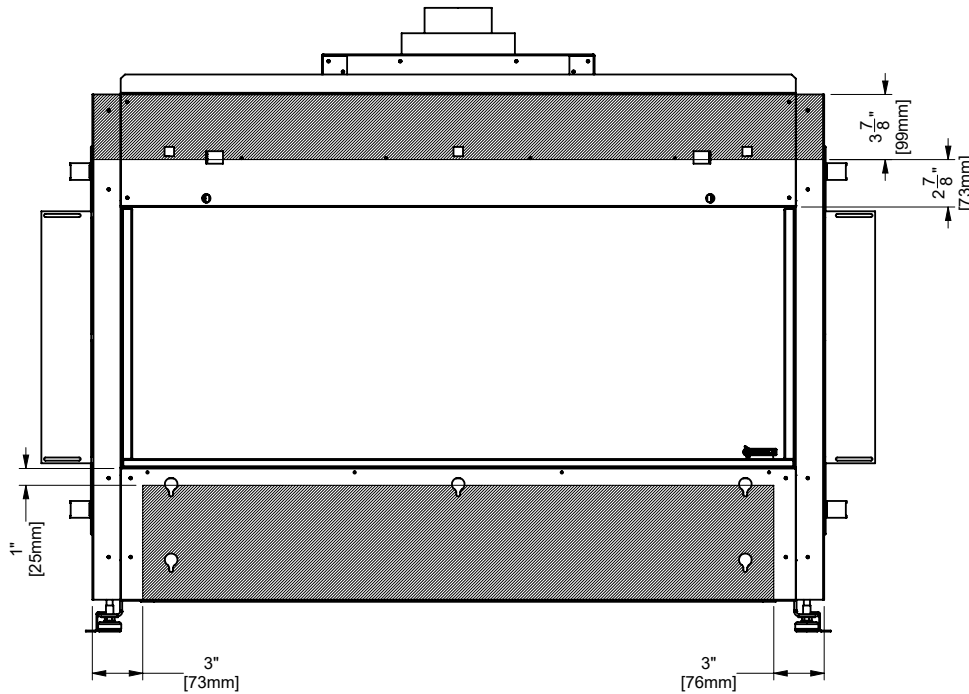
Facing Material

- Facing and/or finishing materials must never overhang into the glass opening.
- Facing materials may be combustible or non-combustible

WARNING! Risk of Fire! DO NOT apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite and will interfere with proper operation.

PAINTING

If desired finishing includes a painted wall, 100% acrylic latex, oil-based or standard acrylic paints may be used. Follow paint manufacturer's instructions for paint and primer application.



SCREWS ONLY IN SHADED AREA

Framing and Finishing Inset Installations

1. Frame in the enclosure for the unit with framing material.

Note: When constructing the framed opening ensure there is access to install the gas lines, electrical. Also the wiring harness must be wall mounted using the receptacle provided with the appliance. The wiring harness will be located on the right hand side of the appliance if facing the unit from the front. This must be done prior to any finishing.

2. For exterior walls, insulate the enclosure to the same degree as the rest of the house, apply vapour barrier and drywall, as per local installation codes. (Do not insulate the fireplace itself).

WARNING: Failure to insulate and add vapor barriers to the inside of the exterior wall will result in operational and performance problems including, but not limited to: excessive condensation on glass doors, poor flame package, carbon, blue flames etc. These are not product related issues.

Note that in all applications while there is a zero clearance to combustibles to the unit, all clearances to combustibles from the venting inside the chase still applies. Please see venting clearances in the specific product manual.

3. IMPORTANT:

Exterior wall/Alcove enclosure: When installing into an exterior cavity or alcove enclosure (ceiling, back and sides), regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, wood studs, etc. to prevent heat from escaping anywhere above /through the enclosure other than the required grill/ventilation openings.

Internal chase: When installing as an internal chase framing installation, regardless of where appliance is placed within the home, requires the use of either drywall or other means such as plywood, on the rear wall of the chase to eliminate heat escaping into the rear wall cavity. If the chase is extended to the ceiling, the ceiling will also need to be finished in a manner to prevent heat escaping into floor joist/attic space.

One of the following methods must be used to prevent the heat from escaping :

- a. If choosing drywall, ensure that the drywall is butt up tight with no gaps.
- b. Plywood, wood studs, etc. installed tightly with no gaps.

As this appliance has been designed with all hot air escaping through the chase enclosure ventilation / grill openings only, if hot air is trapped as a result of the hot air escaping through joints, crevasses, open studs, or other openings within the enclosure above, this will change the clearances within the enclosure causing the enclosure to overheat. It is vital that all the hot air from within the enclosure exits through the ventilation openings only. Ensure that the ventilation openings are made as such to prevent debris, objects from falling into the enclosure.

4. Combustible material (drywall, wood, wood panels, etc.) may be brought up to the appliance (top, bottom and sides).

5. Ensure that the material being used does not encroach anywhere in the area of the glass. This would cause dangerous operating conditions.

6. This appliance comes with a 1/2" lip at top and bottom to hide the ends of the drywall. The 1/2" side and bottom lip supplied with the appliance can alternatively be removed (see Diagram 1) and replaced with J Style Trim or Metal Corner Bead purchased at your local hardware store to cover cut/exposed edges of the combustible facing material or any other finishing materials being used. 4 screws secure the bottom lip — see Diagram 1. These will be hidden so the outer panels will need to be removed to access the screws. See outer panel removal in this manual.

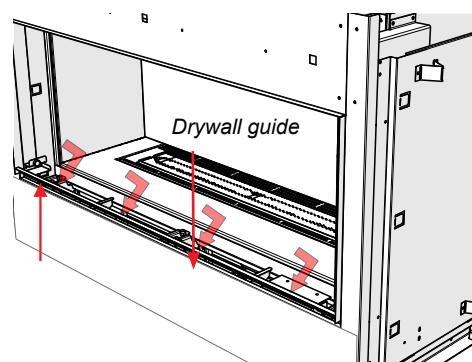
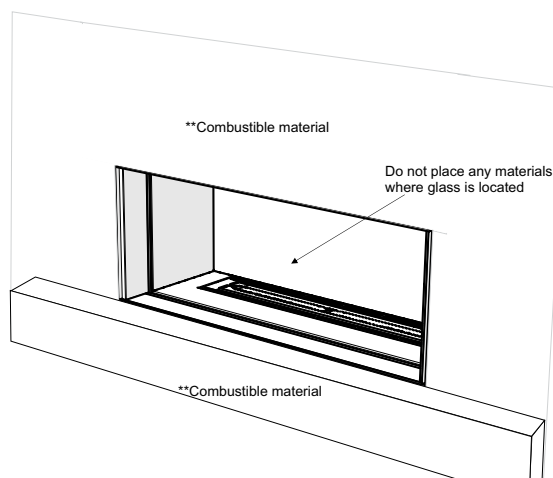


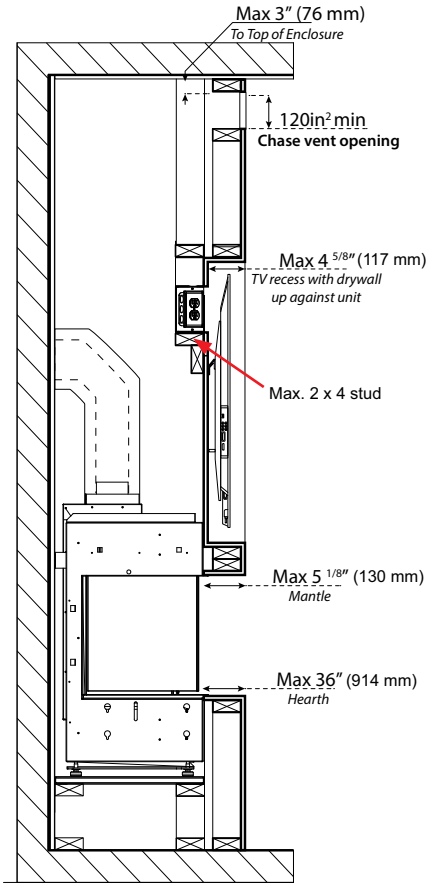
Diagram 1 - Loosen 4 screws and lift off lower drywall guide

Note: an offset screwdriver is provided with the appliance for ease of removal/installation.

installation

TV Recessed into Wall

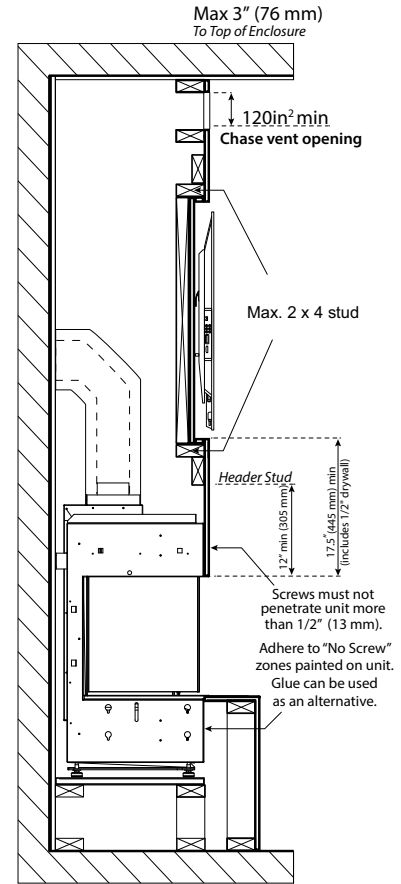
Maximum TV Recess



4 5/8" (117 mm) maximum TV recess using 1/2" (13 mm) drywall

CB40E shown

TV Flush with Hearth



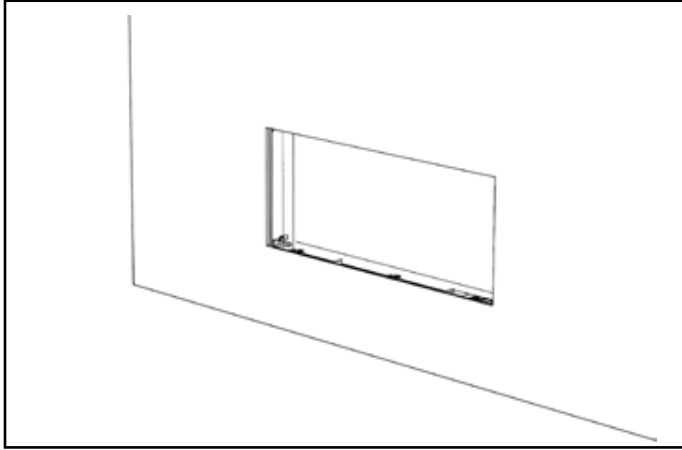
Flush wall TV recess using 1/2" (13 mm) drywall

CB40E shown

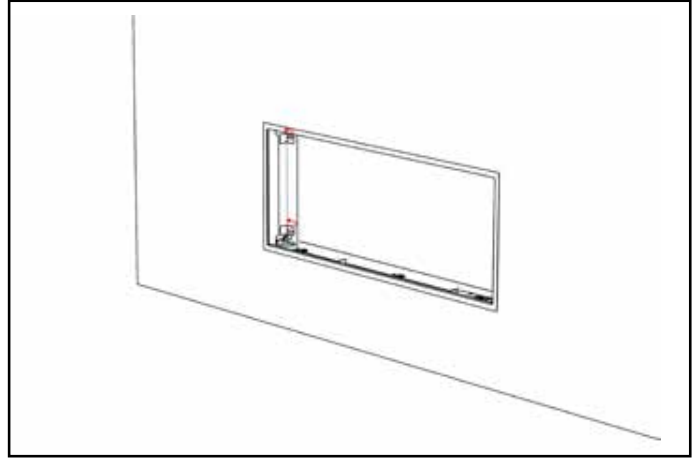
installation

Clean Trim Faceplate Installation

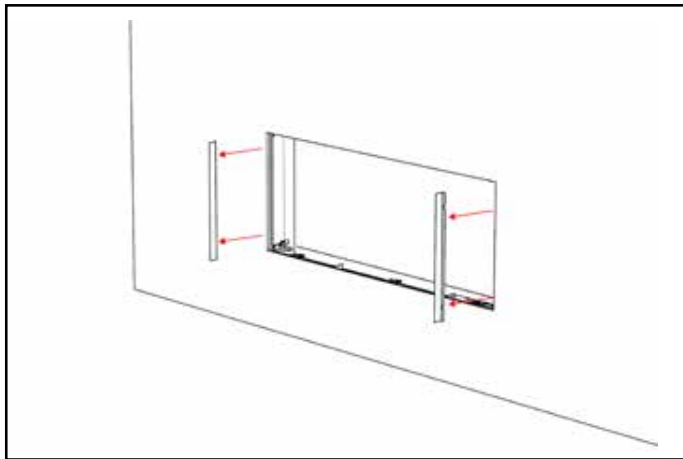
1. Frame in fireplace and install finishing material. (Clean Trim Faceplate can accommodate finishing materials for 1/2 inch to 1 1/8".)



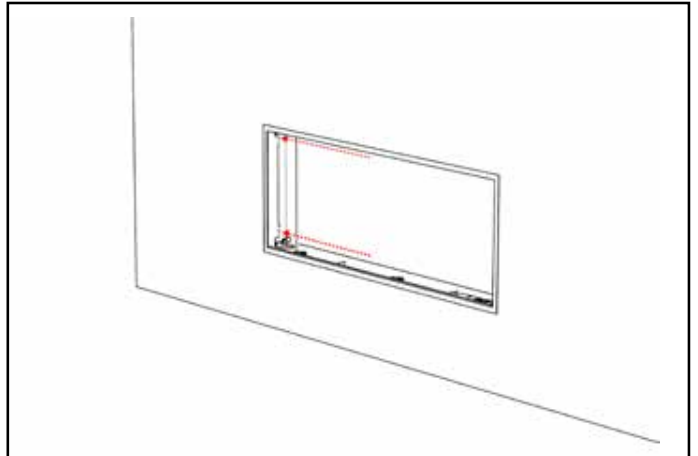
4. Hand bend attachment tabs so they bend past the magnets to the metal wall inside the opening.



2. Prior to installing outer liner panels and barrier glass remove finishing trim plates from right and left sides.



5. Affix Clean Trim Faceplate with self-tapping screws that are included in the box.



3. Insert Clean Trim Faceplate into fireplace opening.

