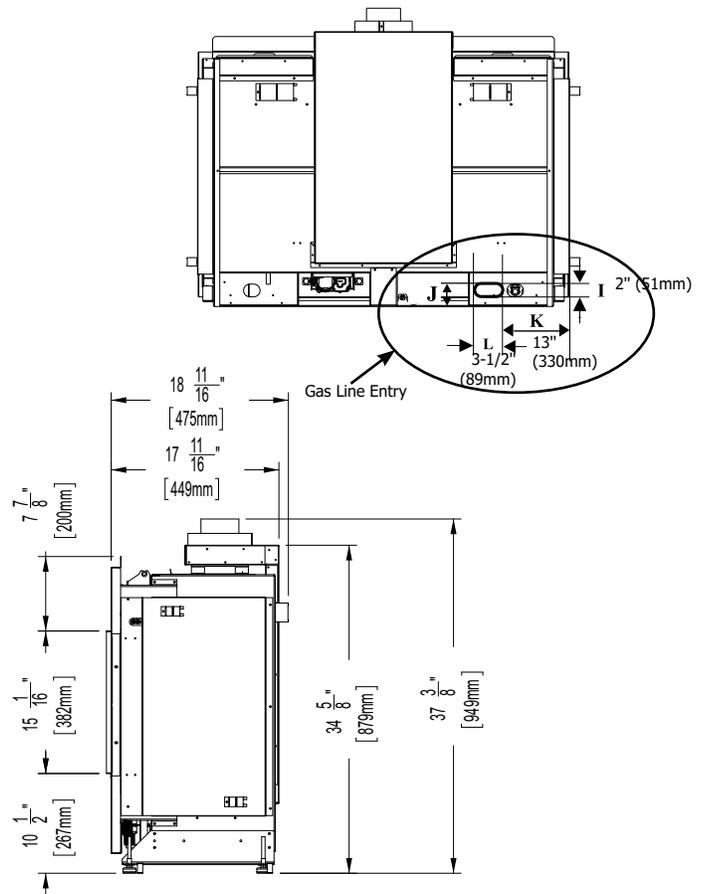
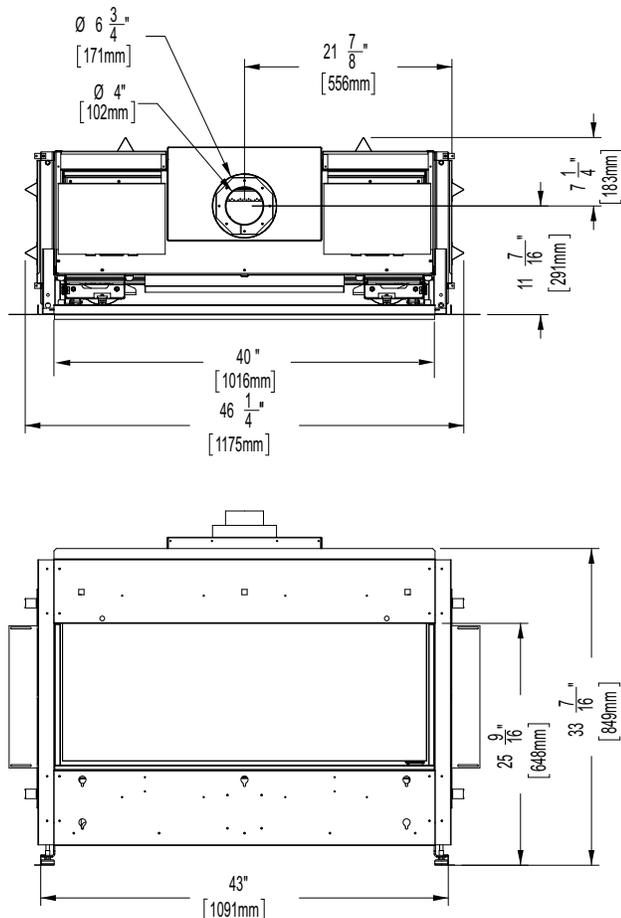


# City Series CV40EPV Gas Fireplace

Model	CV40EPV-NG	CV40EPV-LP
Fuel	Natural Gas	Propane
Minimum Supply Pressure	5" W. C. (1.25 kPa)	11" W.C. (2.73 kPa)
Manifold Pressure - High	3.8" W. C. (0.94 kPa)	10.5" W.C. (2.61 kPa)
Manifold Pressure - Low	1.1" W.C. (0.27 kPa)	2.9" W.C. (0.72 kPa)
Orifice Size Altitude 0-4500 pi (0-1372 m)	#42 DMS	#53 DMS
Minimum Input Altitude 0-4500 pi (0-1372 m)	15,500 Btu/h (4.54 kW)	15,500 Btu/h (4.54 kW)
Maximum Input Altitude 0-4500 pi (0-1372 m)	28,500 Btu/h (8.35 kW)	28,500 Btu/h (8.35 kW)
Vent Sizing	4" Inner / 6-3/4" Outer	4" Inner / 6-3/4" Outer
CSA P.4.1	60.02%	60.85%



## DIMENSIONS



## CLEARANCES

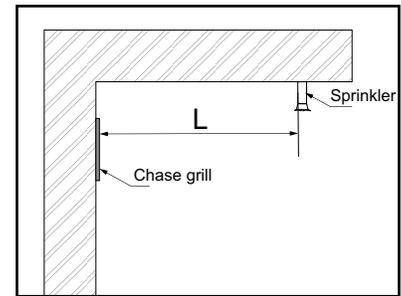
**The clearances listed below are minimum distances unless otherwise stated.**

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

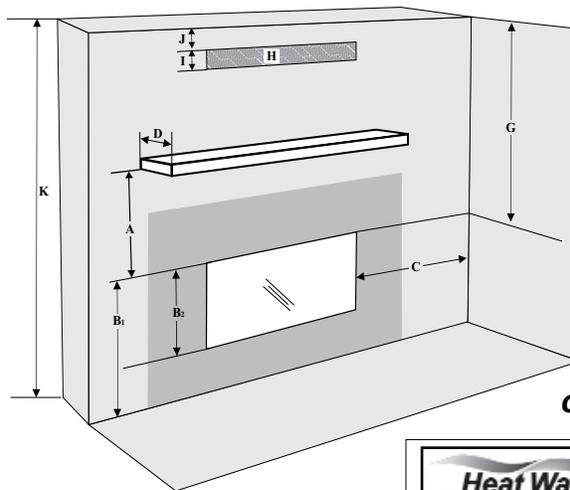
\*\* See mantel clearances chart in this manual

Flue Clearances to Combustibles	
Horizontal - Top	3"
Horizontal - Side	2"
Horizontal - Bottom	2"
Vertical	2"
Passing through wall/floor/ceiling - when freestop is used.	1-1/2"

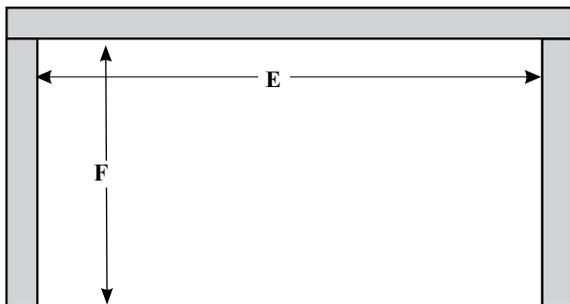


Side view

\*A minimum of 120 square inches of open area, not lower than 3" from top of enclosure, required for all installations



**CV40EPV- Single sided**



Alcove

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

**Caution Requirements**

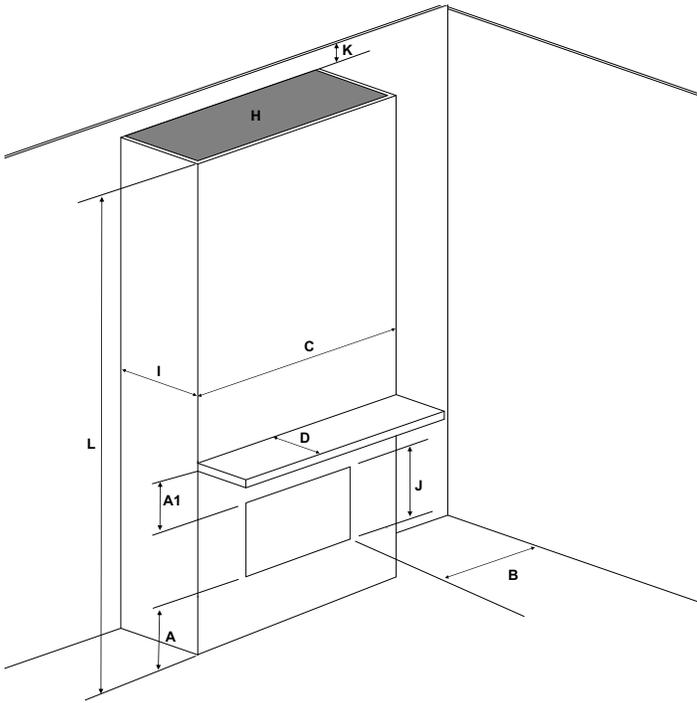
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

**WARNING**

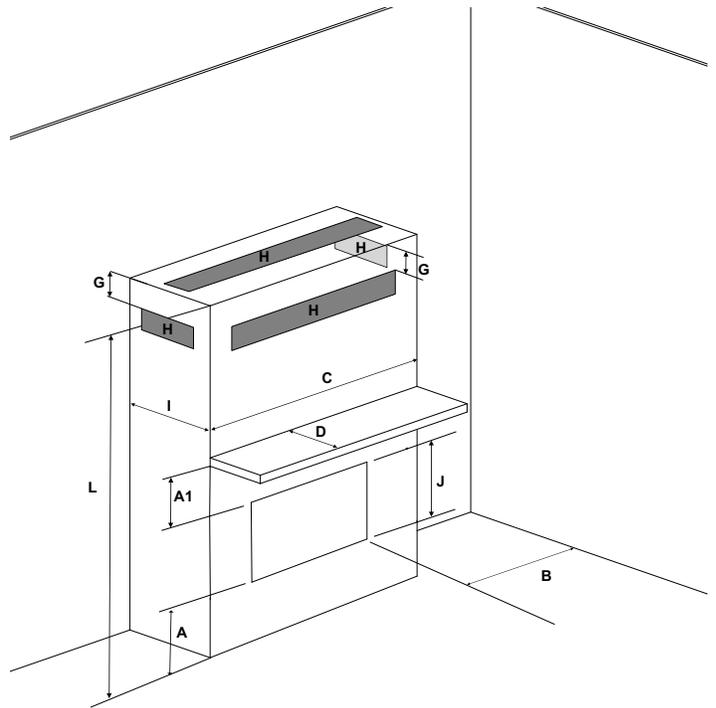
**Fire hazard is an extreme risk**

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.

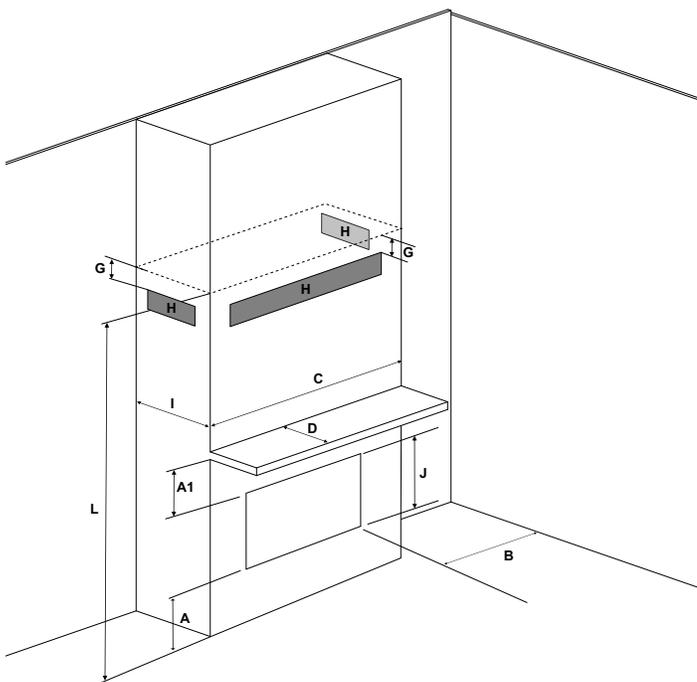
## CLEARANCES CV40EPV



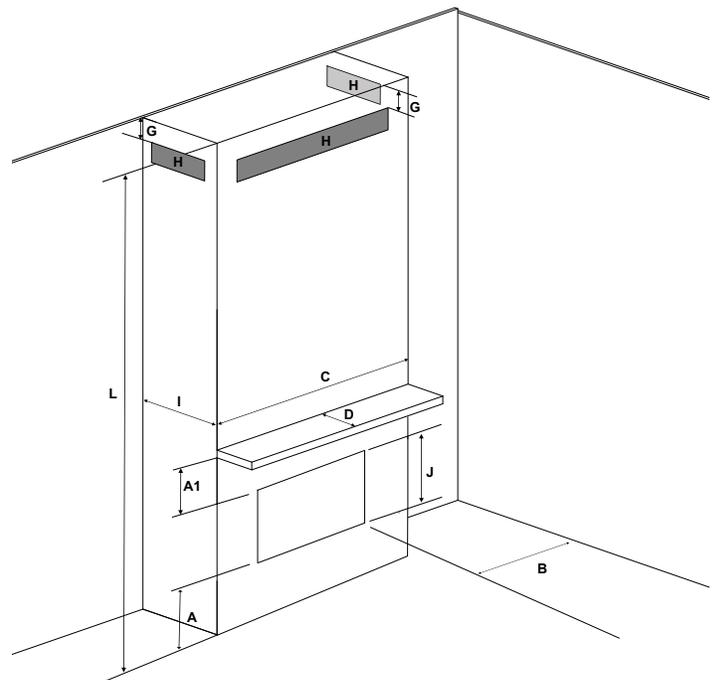
Floor to ceiling with top ventilation opening



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



Full framing with low ventilation opening in front or 2 sides



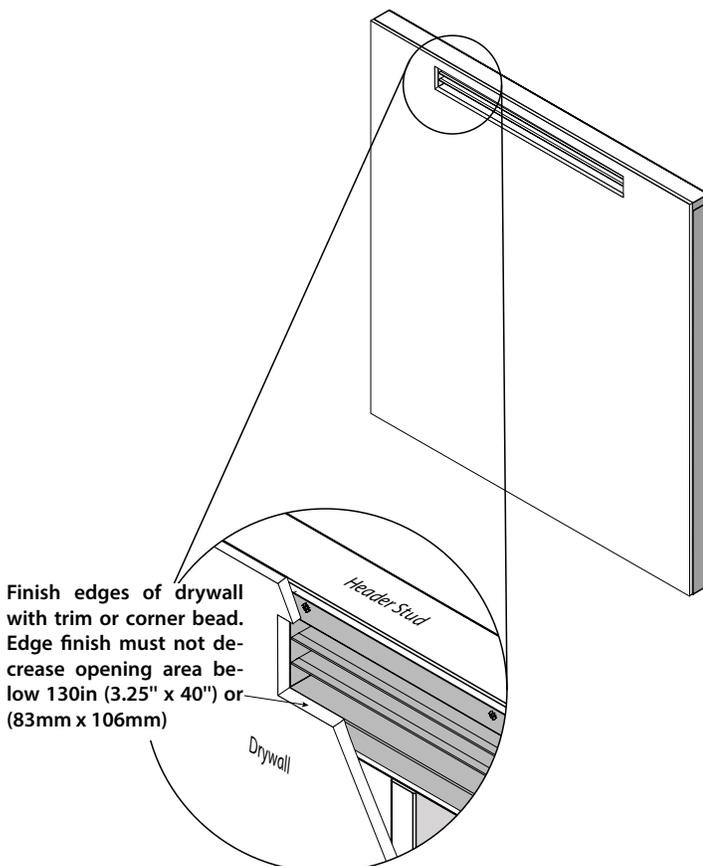
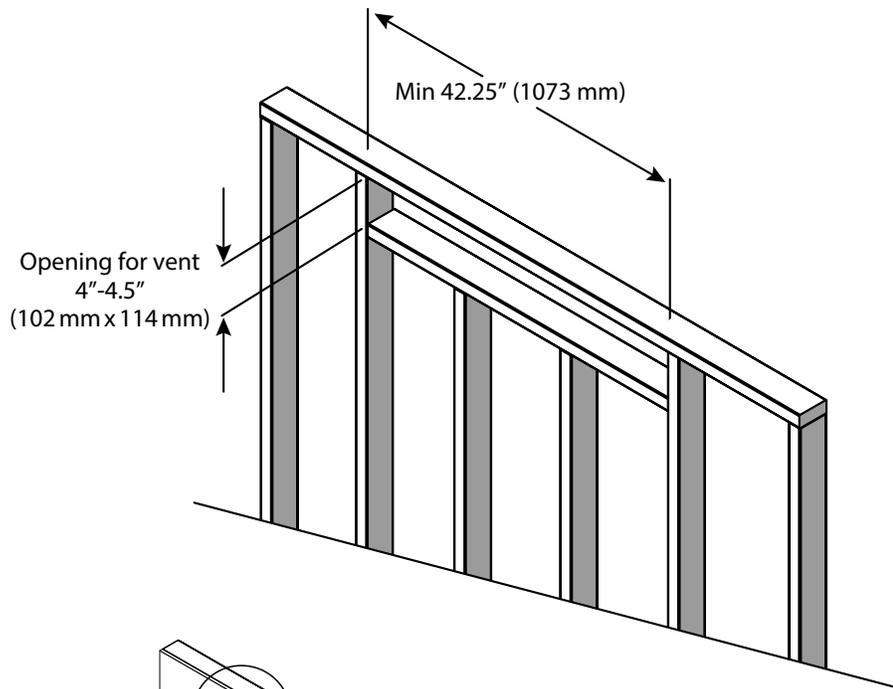
Full framing with ventilation opening in front or 2 sides

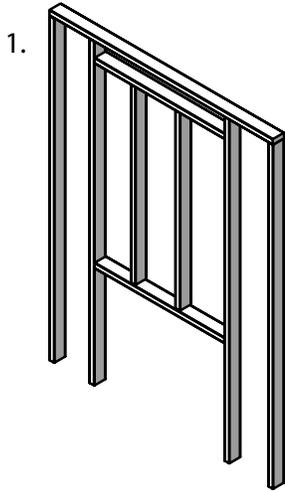
**Note:** The ventilation opening may only be placed above, on both sides and in front as shown above. Ventilation grills can never be placed behind the appliance.

## OPTIONAL FLUSH FRONT CHASE VENT INSTALLATION - PART #657-991 (WHITE)

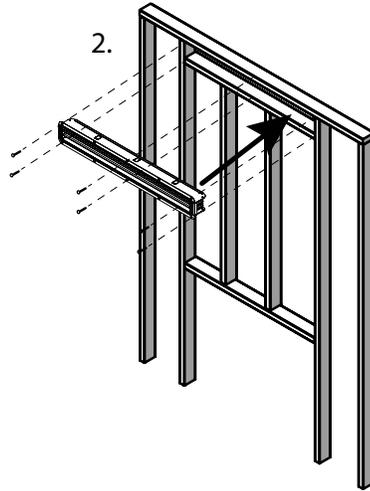
This optional flush front chase vent grill is designed so that only the grills are exposed. The 4 flanges in front which secure the chase vent grill to the stud work is covered by the drywall to give a seamless look.

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.

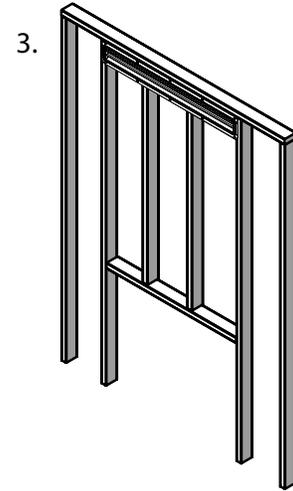




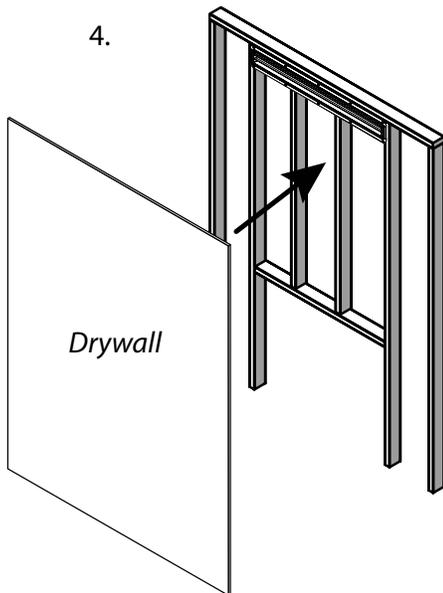
1. Frame opening for vent  
(See Vent Framing Clearances Page)



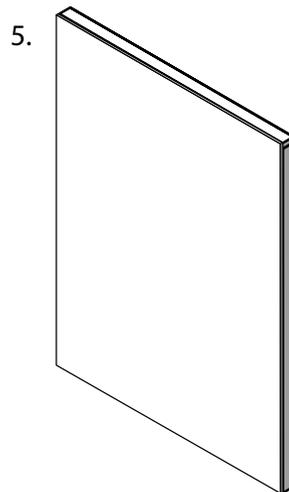
2. Screw Chase vent to Framing



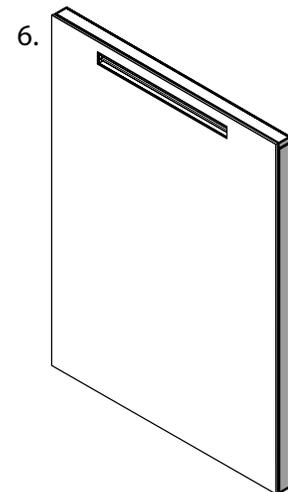
3. Use at least 3 sets of screws to keep the vent flat against framing



4. Frame wall with finishing material



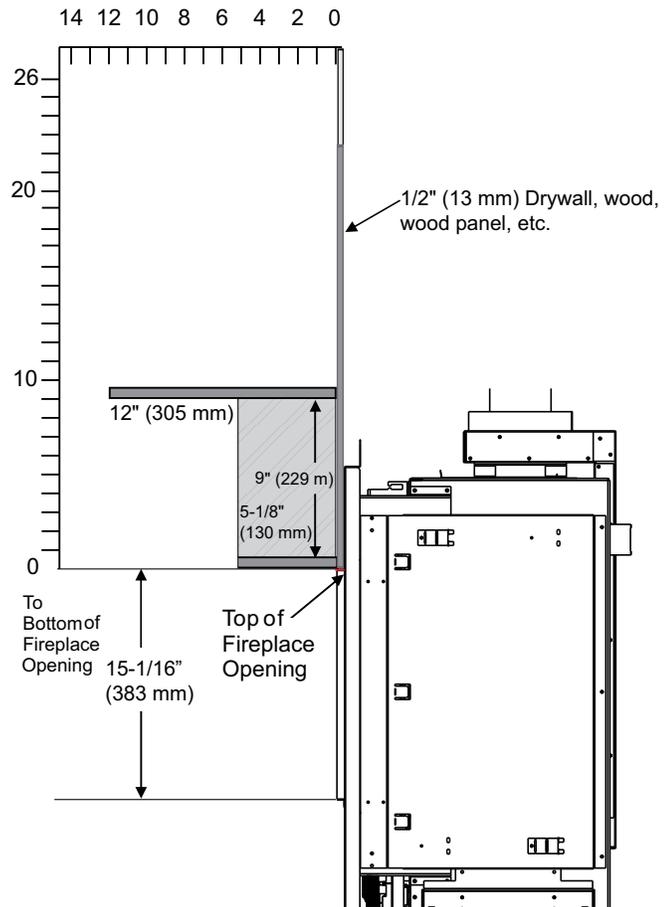
5. If necessary, mark where the chase vent is located before fixing drywall in place



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

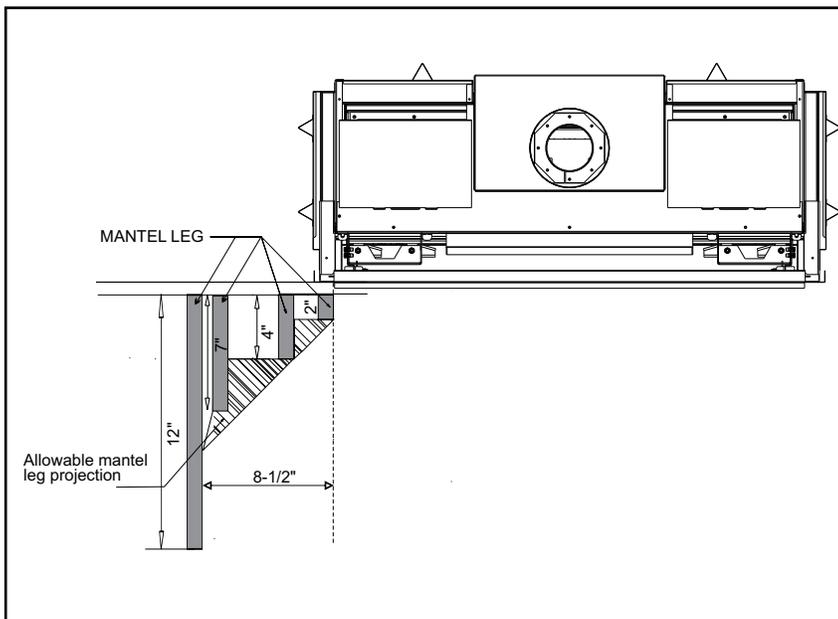
## MANTEL CLEARANCES

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

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

Framing Dimensions	Description	CV40EPV
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	45-1/2" (1156mm)

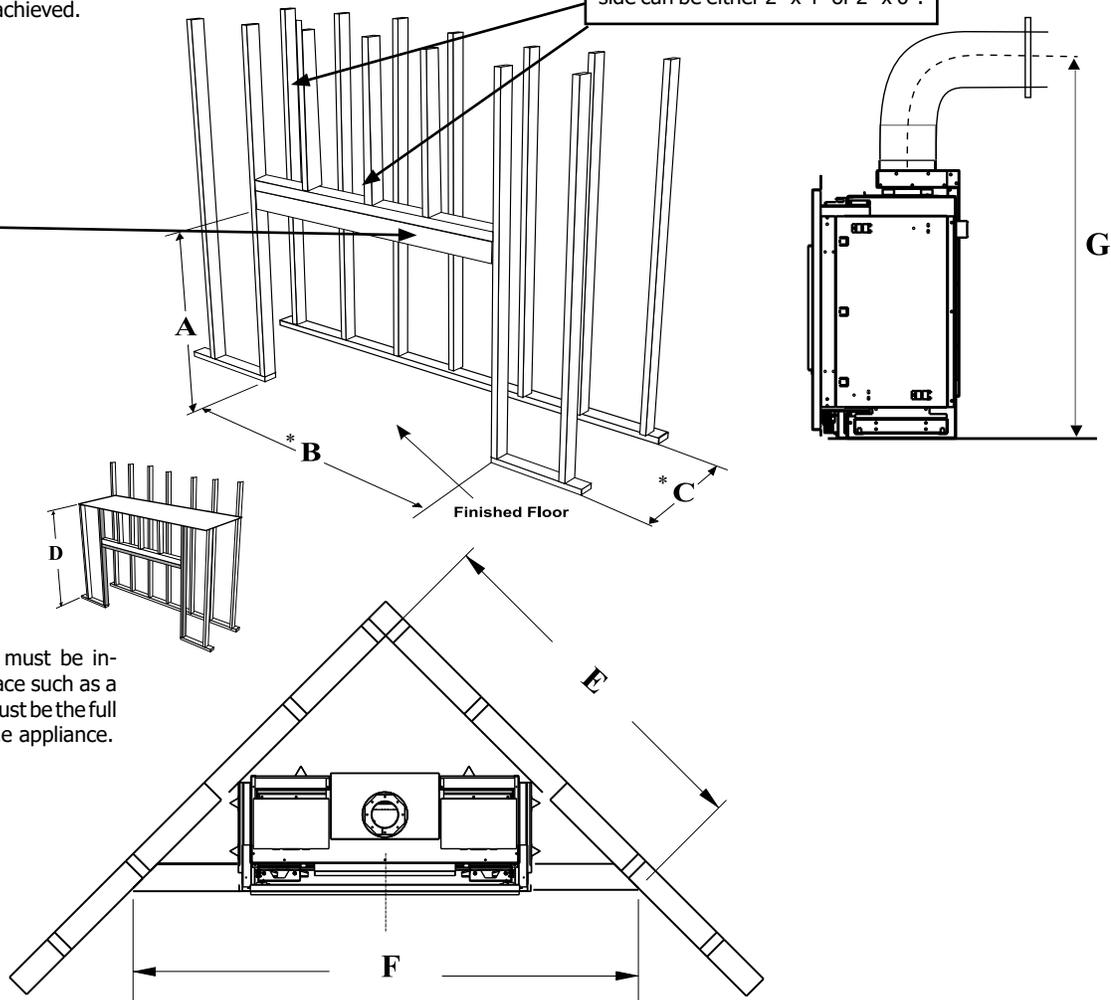
\* **Important:** Minimum overall vent run must be 4 feet. Even though centerline is 45 1/2", if appliance is framed at minimum depth, the 4 feet of vent run could not be obtained. Center line will need to be increased in height in order to achieve a minimum vent run of 4 feet.

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".

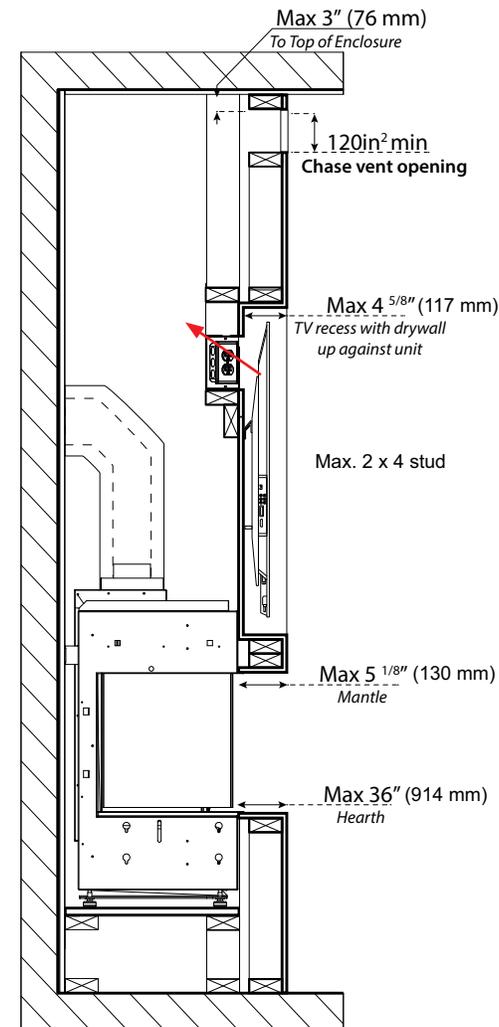


Note: This appliance must be installed on a solid surface such as a plywood floor which must be the full width and depth of the appliance.

\*\* 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")

**TV RECESSED INTO WALL**

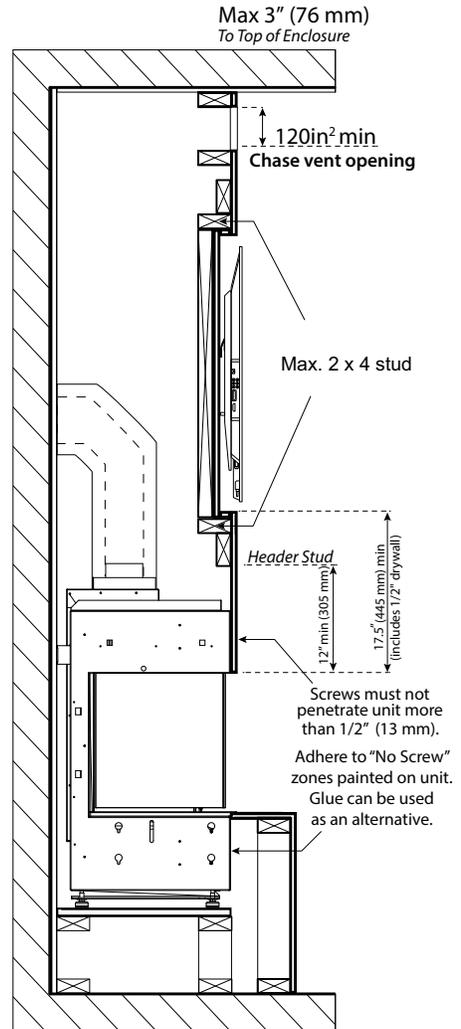
**Maximum TV Recess**



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

## HORIZONTAL TERMINATIONS

### End of Line Horizontal Vent Chart

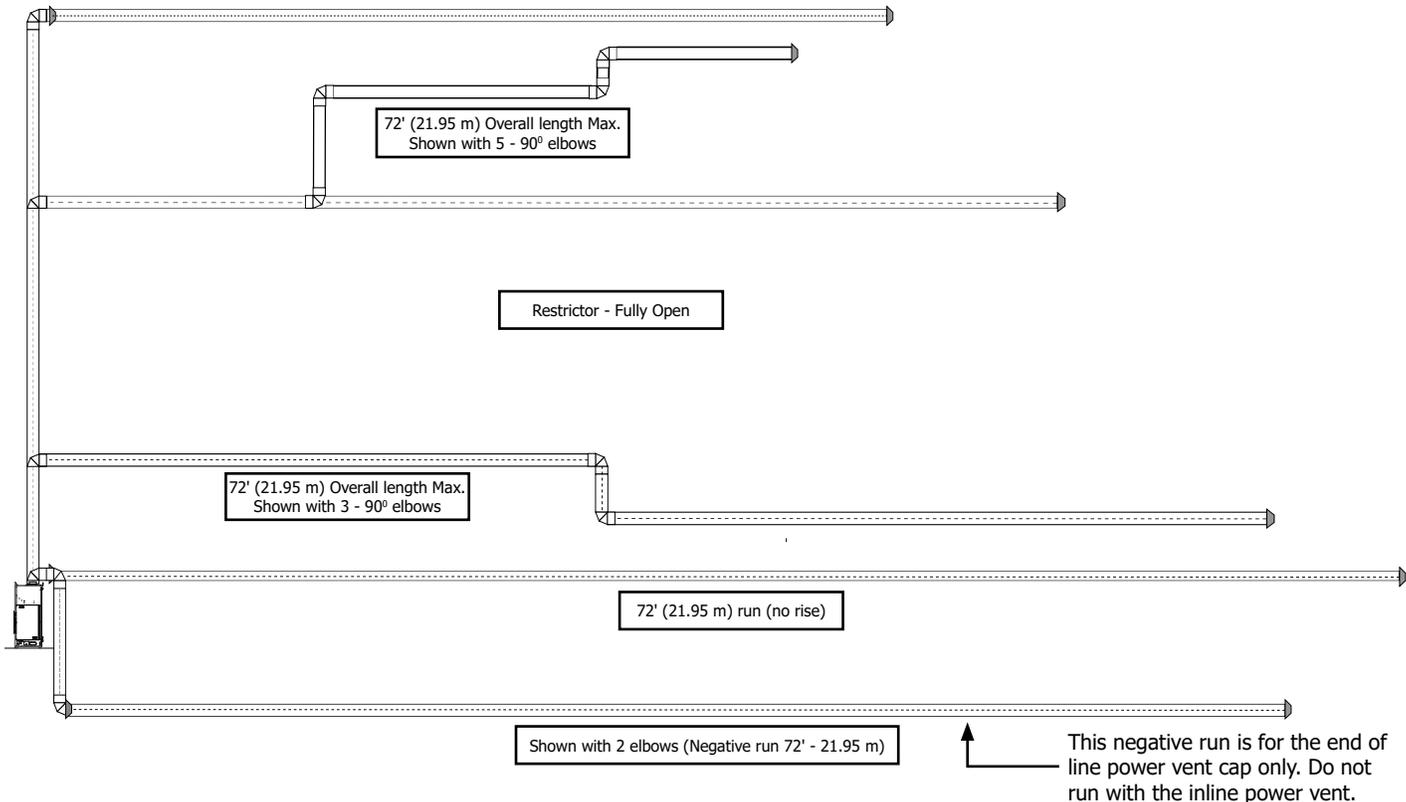
RIGID PIPE: MUST USE RIGID PIPE ADAPTOR 510-994

Note: Rigid pipe is approved for up to 72 feet (21.95 m).

Note: Flex pipe is approved for up to 40 feet (12.19 m) using 2 X 946-756-- 20 foot flex kits.

The gas power vent system is designed to allow the installation of a gas appliance when typical vent configurations (shown in this manual) are not possible.

**Note:** The CV40EPV must be terminated horizontally. Vertical terminations are not permitted.



**Important:**

Maximum total vent length = 72' (21.95 m) maximum of six - 90° elbows permitted.

One 90° elbow = two 45° elbows.

Maximum total negative vent length = 7' (2.13 m).

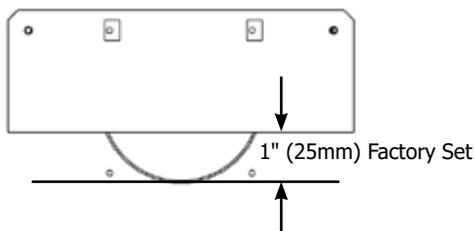
Minimum 4 ft. (1.22 m) from the unit prior to terminating.

Note: Maximum length of 72 feet (21.95 m) is based on overall length of combined chimney components.

Do not run positive venting after a negative run.

### Vent Restrictor Position

Vent Restrictor factory set for the CV40EPV



## HORIZONTAL TERMINATIONS

### Inline Horizontal Vent Chart

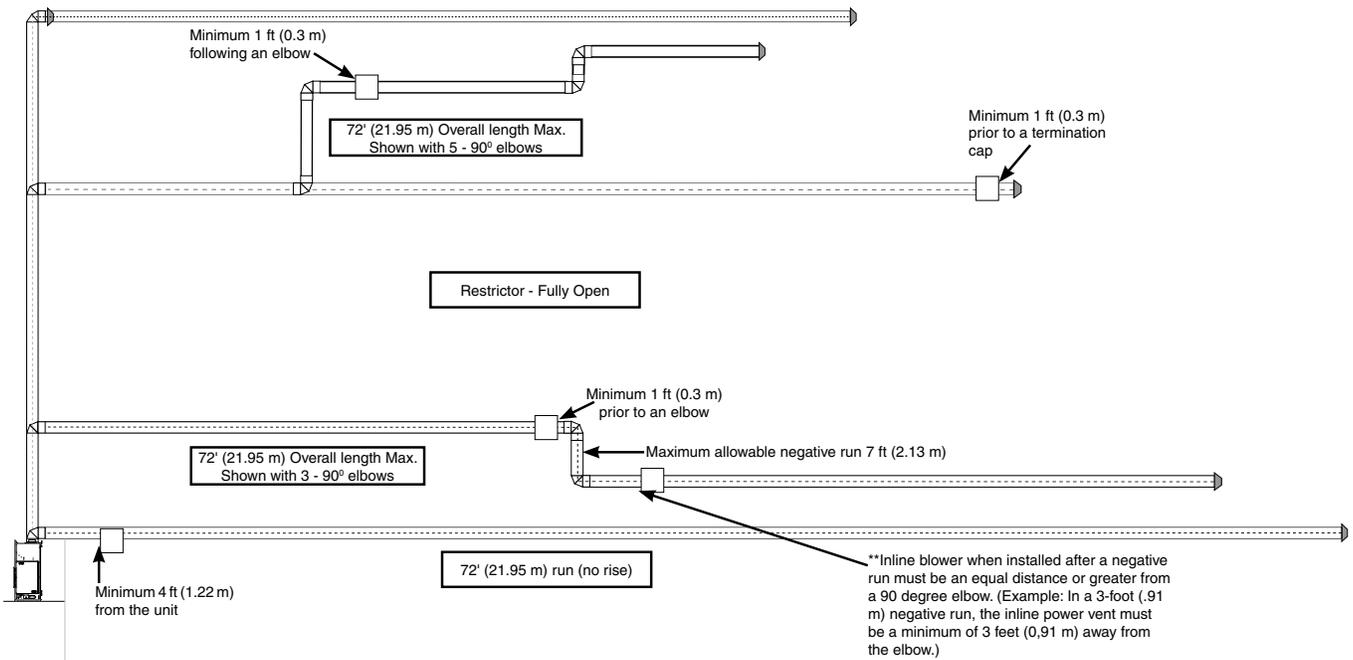
RIGID PIPE: MUST USE RIGID PIPE ADAPTOR 510-994.

Note: Rigid pipe is approved for up to 72 feet (21.95 m).

Note: Flex pipe is approved for up to 40 feet (12.19 m) using 2 X 946-756-20 foot (6.10 m) flex kits.

The gas power vent system is designed to allow the installation of a gas appliance when typical vent configurations (shown in this manual) are not possible.

**Note:** This model comes with a 5" (127 mm) inner and 8" (203 mm) outer collar which must be reduced to 4" x 6 5/8" (102 mm x 168 mm) in all applications. Must be terminated horizontally. Vertical terminations are not permitted.



**Important:**

Maximum total vent length = 72' (21.95 m) maximum of six - 90° elbows permitted.

One 90° elbow = two 45° elbows.

Maximum total negative vent length = 7' (2.13 m) .

Note: Maximum length of 72 (21.95 m) feet is based on overall length of combined chimney components.

Do not run positive venting after a negative run.

**Inline power vent location restrictions:**

Minimum 4 ft (1.22 m) from the unit

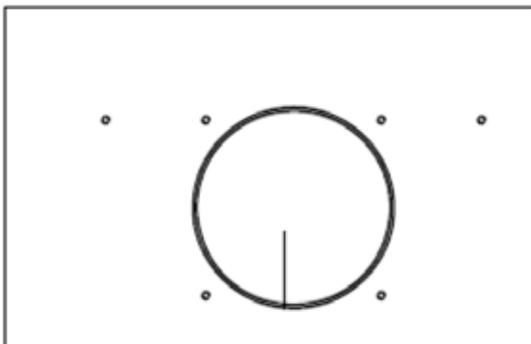
Minimum 1 ft (0.3 m) prior to an elbow.

Minimum 1 ft (0.3 m) following an elbow.

Minimum 1 ft (0.3 m) prior to a termination cap.

When the inline blower is installed after a negative run, for every foot of negative run the inline blower must be an equal distance or greater from the 90-degree elbow. See example above.

### Vent Restrictor Position



## VENTING ARRANGEMENT FOR VERTICAL TERMINATIONS - INLINE POWER VENT

Vertical venting with straight vertical venting and or with a max. of six (6) 90° Elbows (1 - 90° = 2 - 45°)

RIGID PIPE: MUST USE RIGID PIPE ADAPTOR 510-994.

Note: Rigid pipe is approved for up to 72 feet (21.95 m).

Note: Flex pipe is approved for up to 40 feet (12.19 m) using 2 X 946-756--20 foot flex kits.

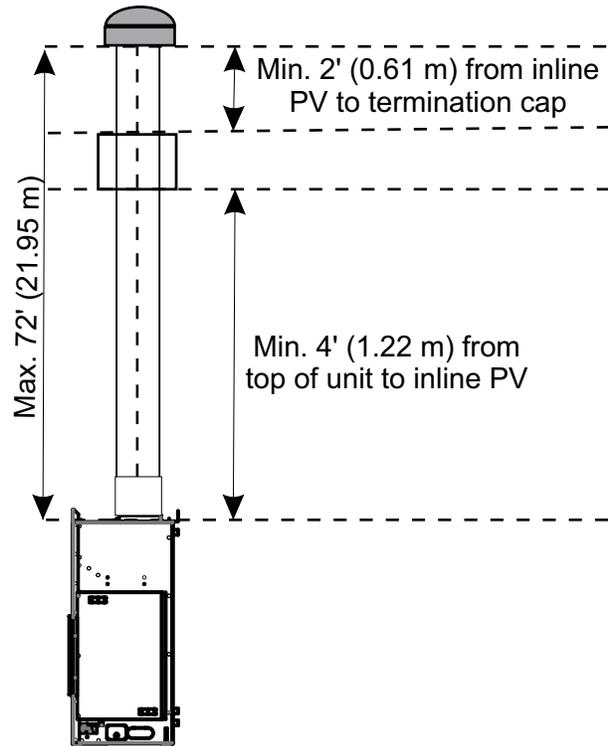
- Two 45° elbows equal to one 90° elbow.
- Vent must be supported at offsets.
- Minimum distance between elbows is 1 ft. (0.3 m).
- Maintain clearances to combustibles as listed in the "Clearances" section.
- Horizontal vent must be supported every 3 feet (0.91 m).
- Firestops are required at each floor level and whenever passing through a wall.

Restrictor set on 0 (fully open) regardless of vent run.

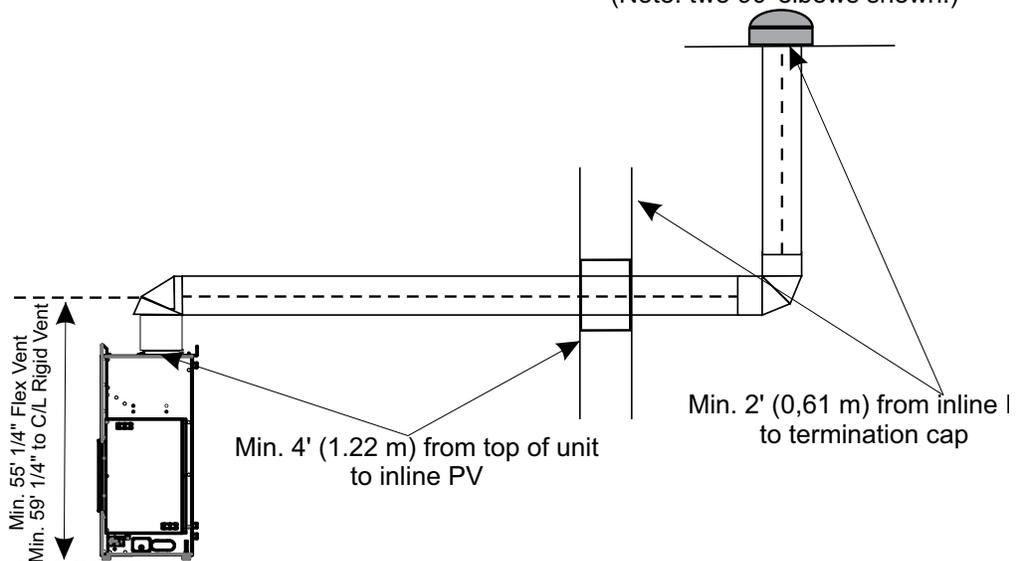
Inline power vent location restrictions:

- Minimum 4 ft (1.22 m) from the unit.
- Minimum 1 ft (0.3 m) prior to an elbow.
- Minimum 1 ft (0.3 m) following an elbow.
- Minimum 2 ft (0.61 m) prior to a termination cap.
- Minimum 2 ft. from inline PV to termination cap.
- Minimum 4' from top of unit to inline PV.
- Max. of 72' (21.95 m), using up to six 90° elbows (Note: example shows two 90° elbows).
- No negative runs.

Note: The inline power vent must be installed within the confines of the home/structure.



Max. of 72' (21.95 m), using up to six 90° elbows (Note: two 90° elbows shown.)

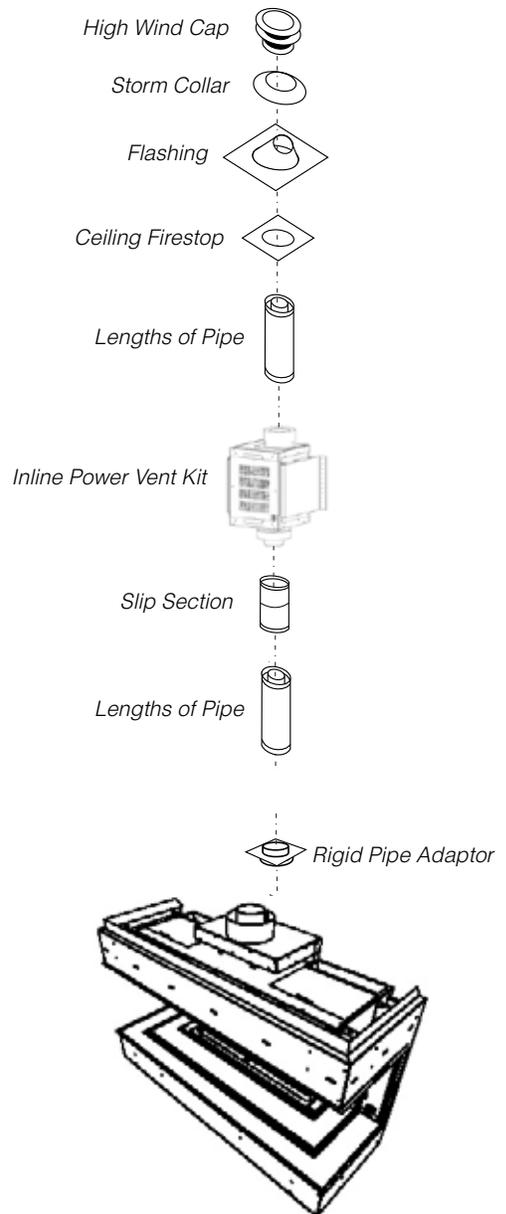


## VERTICAL INLINE POWER VENT TERMINATIONS RIGID PIPE

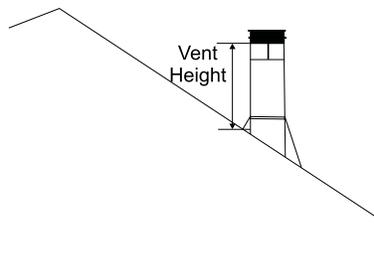
The minimum components required when using inline power vent are:

- 1 High Wind Cap
- 1 Rigid Pipe Adaptor (510-994)
- 1 Ceiling Firestop
- 1 Flashing
- 1 Storm Collar
- 1 Lengths of pipe to suit wall thickness & vent run (see chart)
- 1 Inline Power Vent Kit

Galvanized pipe is desirable above the roofline due to its higher corrosion resistance. Continue to add pipe sections through the flashing until the height of the vent cap meets the minimum height requirements specified in table below or local codes. Note that for steep roof pitches, the vertical height must be increased. A poor draft, or down drafting can result from high wind conditions near big trees or adjoining roof lines, in these cases, increasing the vent height may solve the problem.



Roof Pitch	Minimum Vent Height	
	Feet	Meters
flat to 7/12	2	0.61
over 7/12 to 8/12	2	0.61
over 8/12 to 9/12	2	0.61
over 9/12 to 10/12	2.5	0.76
over 10/12 to 11/12	3.25	0.99
over 11/12 to 12/12	4	1.22
over 12/12 to 14/12	5	1.52
over 14/12 to 16/12	6	1.83
over 16/12 to 18/12	7	2.13
over 18/12 to 20/12	7.5	2.29
over 20/12 to 21/12	8	2.44



**WARNING:**

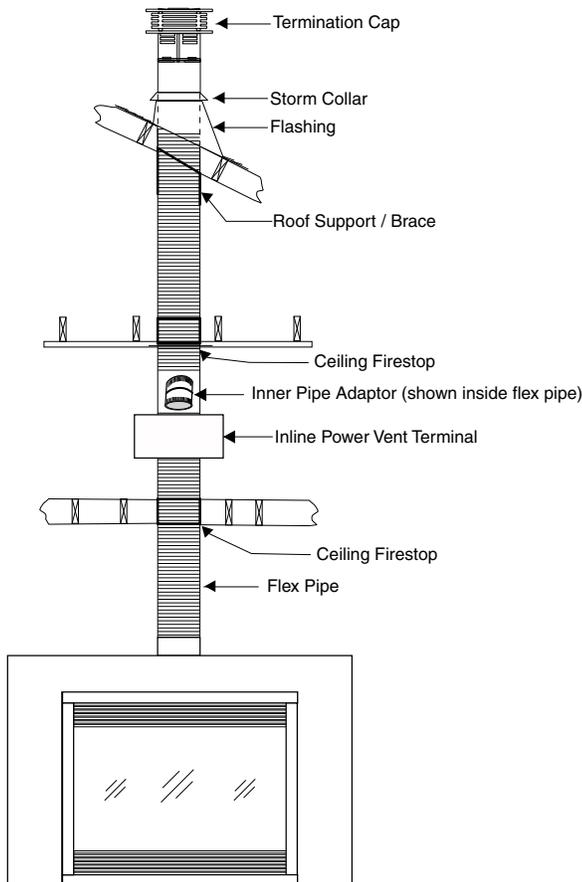
Do not combine venting components from different venting systems.

This product has been evaluated by Intertek for using a Rigid Pipe Adaptor in conjunction with Duravent Direct-Vent, Selkirk Direct-Temp, Ameri Vent Direct Venting, ICC Excel Direct, Olympia Ventis DV, and Security Secure Vent systems. Use of these systems with the Rigid Pipe adaptor is deemed acceptable and does not affect the Intertek WHI listing of components.

**When using Rigid Vent other than Simpson Dura-Vent, 3 screws must be used to secure rigid pipe to adaptor.**

## VENTING ARRANGEMENTS FOR VERTICAL TERMINATIONS FLEX PIPE

Note: Flex pipe is approved for up to 40 feet (12.19 m) using one 20 foot (6.10 m) flex kit (part # 946-755) and one 20 foot (6.10 m) flex kit extension (part # 946-756).



### Inline power vent location restrictions:

- Minimum 4 ft (1.22 m) from the unit.
- Minimum 1 ft (0.3 m) prior to an elbow.
- Minimum 1 ft (0.3 m) following an elbow.
- Minimum 2 ft (0.61 m) prior to a termination cap.
- Minimum 2 ft (0.61 m) from inline PV to termination cap.
- Minimum 4ft (1.22 m) from top of unit to inline PV.
- Max. of 72' (21.95 m), using up to six 90° elbows
- (Note: example shows two 90° elbows).
- No negative runs.

### Power Vent Kit (Part #666-945)

- 1 666-945 Power vent kit sold separately.
  - 1 946-219/P Adaptor pipe included w/power vent kit.
  - 1 946-755 20' (6.10 m) Vertical Flex Kit (sold separately) includes: 20 ft. (6.10 m) flex pipe with 10 spacers (inner & outer pipe), 3 wall straps, ceiling firestop, roof brace, flex to rigid adaptor, roof support/brace, 36 in. (914 mm) rigid Duravent pipe, storm collar, high wind termination cap, hardware.
  - 1 Max. 946-756 20' (6.10 m) flex kit extension (sold separately).
  - 1 Power Vent fan included w/power vent kit.
  - 1 911-250/P 45' (13.72 m) 5-wire BX cable (sold separately).
- OR
- 1 911-251/P 90' (27.43 m) 5-wire BX cable (sold separately).

### Must also purchase one of the flashings listed below:

- 1 46DVA-F12 Flashing 7/12 - 12/12
- 1 46DVA-F6 Flashing 0/12 - 6/12
- 1 46DVA-FF Flat roof flashing

## HORIZONTAL TERMINATIONS - INLINE POWER VENT 4" X 6-5/8" FLEX VENT

These venting systems, in combination with the CV40EPV Direct Vent Gas Fireplace, have been tested and listed as a direct vent heater system by Intertek. The location of the termination cap must conform to the requirements in the Vent Terminal Locations diagram in "Exterior Vent Termination Locations" section.

**Regency® Direct Vent (Flex) System Termination Kits include all the parts needed to install the CV40EPV using a flexible vent.**

**NOTES.**

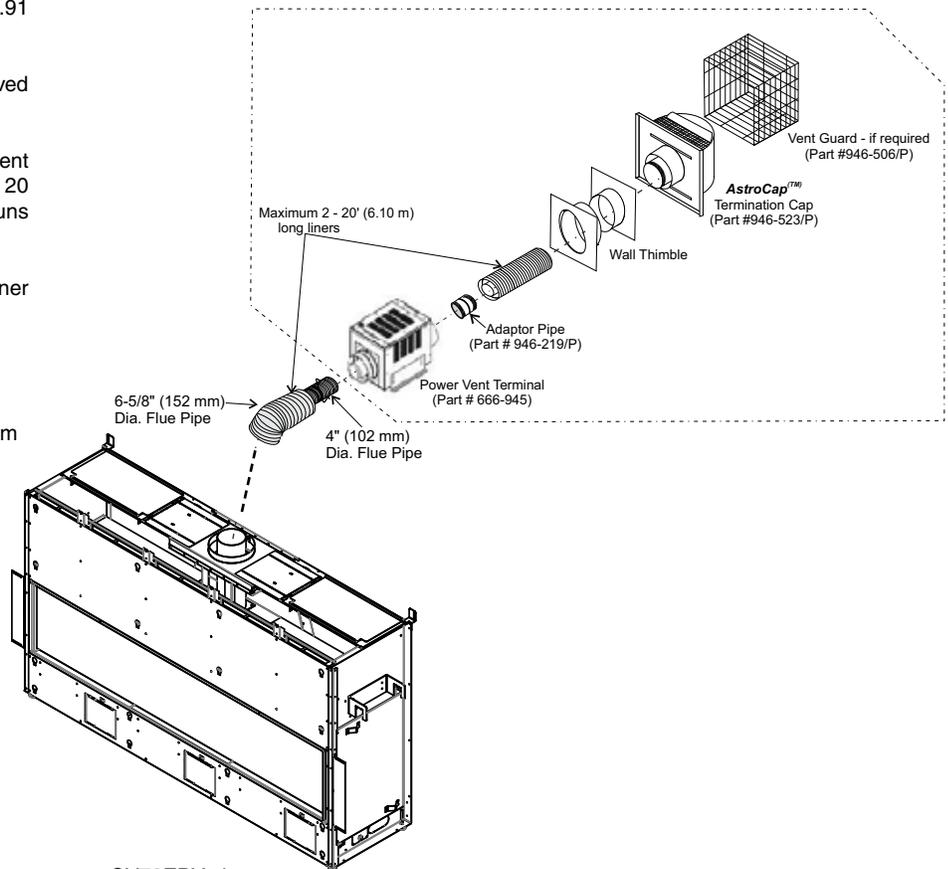
1. Only Flex pipe purchased from Regency® may be used for Flex installations
2. Horizontal vent must be supported every 3 feet (0.91 m).
3. Regency® Direct Vent System (Flex) is only approved for horizontal terminations.
4. Flex system can only be used up to a maximum vent length of up to 40 feet (12.19 m) using up to 2 x 20 ft (6.10 m) flex kits (part # 946-756). If longer runs are required, rigid pipe must be used.
5. Must use adaptor pipe (946-219/P) to connect inner flex pipe as shown.

Maximum total vent length = 72' (21.95 m) maximum of six-90° elbows permitted.  
 One 90° elbow = two 45° elbows  
 Maximum total negative vent length = 7' (2.13 m)

Note: Maximum length of 72' (21.95 m) is based on overall length of combined chimney components.

Do not run positive venting after a negative run.

Inline power vent location restrictions:  
 Minimum 4 ft (1.22 m) from the unit  
 Minimum 1 ft (0.3 m) prior to an elbow.  
 Minimum 1 ft (0.3 m) following an elbow.  
 Minimum 1 ft (0.3 m) prior to a termination cap.  
 Minimum 6 ft (1.82 m) rise from top of unit if there is a negative run.



CV72EPV shown

Power Vent Kit (Part 666-945)			
2 Max.	946-756	20' Flex Kit	Sold separately
1		Power Vent Fan	Included w/Power Vent kit
1	911-250/P	45' (13.72 m)-5 Wire BX Cable or	Sold separately
1	911-251/P	90' (27.43 m) 5-Wire BX Cable	Sold separately
1	666-945	Power Vent Kit	Sold separately
1	946-219/P	Adaptor Pipe	Included w/power vent kit
1	946-206	Vinyl Siding Standoff	Sold separately
1	946-523/P	Astro Cap Termination	Sold separately
1	946-763	Wall Thimble	Sold separately
1	946-506/P	Vent Guard	Sold separately

## HORIZONTAL TERMINATIONS - INLINE POWER VENT RIGID PIPE 4" X 6-5/8"

The minimum components required for a basic horizontal termination are:

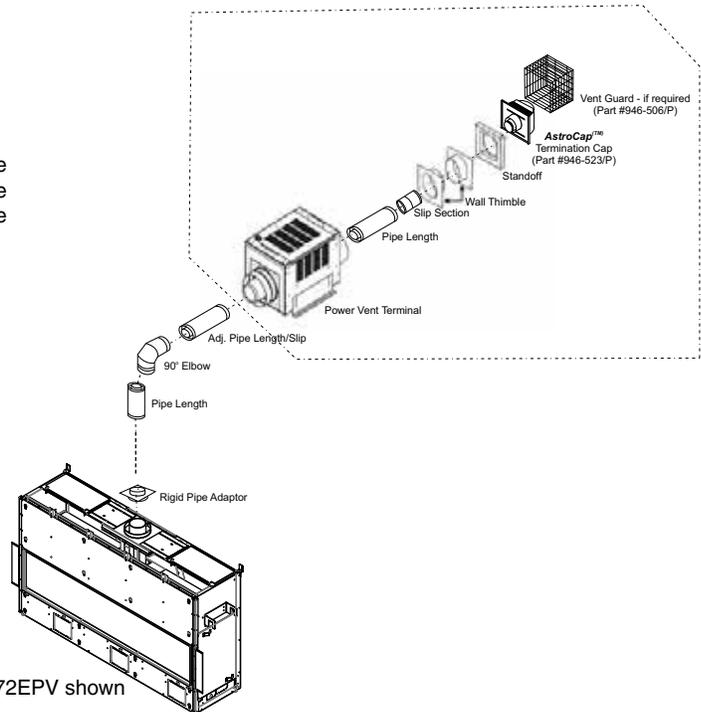
- 1 Horizontal Termination Cap
  - 1 Power Vent Kit
  - 1 Rigid Pipe Adaptor
  - 1 Length of pipe to suit wall thickness and total vent run (see Table 1)
- Adjustable pipe lengths/slips

Wall thickness is measured from the back standoffs to the inside mounting surface of termination cap. Create a level surface to mount the vent terminal. The Terminal must not be recessed into siding. Measure the wall thickness.

Flat Wall Installation	
Wall Thickness	Vent Length Required
4" - 5-1/2" (102 mm - 140 mm)	6" (152 mm)
7" - 8-1/2" (178 mm - 216 mm)	9" (229 mm)
10" - 11-1/2" (254 mm - 292 mm)	12" (305 mm)
9" - 14-1/2" (228 mm - 368 mm)	11" - 14-5/8" Adj. Pipe (279 mm - 371 mm)
15" - 23-1/2" (381 mm - 597 mm)	17" - 24" Adj. Pipe (432 mm - 610 mm)

Table 1

CV72EPV shown



**Important:**

Maximum total vent length = 72' (21.95 m) with a maximum of six 90° elbows.

One 90° elbow = two 45° elbows.

Maximum total negative vent length = 7' (2.13 m).

Note: Maximum length of 72' (21.95 m) is based on overall length of combined chimney components.

Do not run positive venting after a negative run.

Inline power vent location restrictions:

Minimum 4 ft (1.22 m) from the unit

Minimum 1 ft (0.3 m) prior to an elbow.

Minimum 1 ft (0.3 m) following an elbow.

Minimum 1 ft (0.3 m) prior to a termination cap.

Minimum 6 ft (1.8 m) rise from top of unit if there is a negative run.

Power Vent Kit (Part 666-945)			
1	770-994	Rigid Pipe Adaptor	Sold separately
1	911-250/P	45' (13.71 m) -5 Wire BX Cable or	Sold separately
1	911-251/P	90' (27.43 m) 5-Wire BX Cable	Sold separately
	Amount required for install	4" x 6-5/8" (102 mm x 168 mm) Rigid Pipe	Sold separately
1	666-945	Power Vent Kit	Sold separately
1	946-206	Vinyl Siding Standoff	Sold separately
1	946-523/P	Astro Cap Termination	Sold separately
1	946-763	Wall Thimble	Sold separately
1	946-506/P	Vent Guard	Sold separately

**NOTE: Slip section is mandatory.**

## HORIZONTAL TERMINATIONS - END OF LINE POWER VENT RIGID PIPE 4" X 6-5/8"

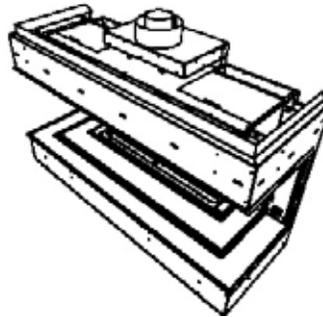
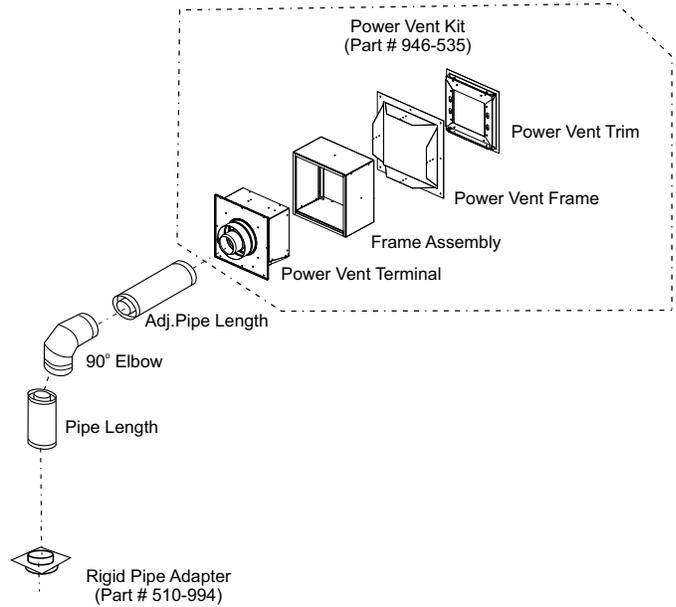
The minimum components required for a basic horizontal termination are:

- 1 Power Vent Kit
- 1 Rigid Pipe Adaptor
- 1 Length of pipe to suit wall thickness and total vent run (see Table 1)

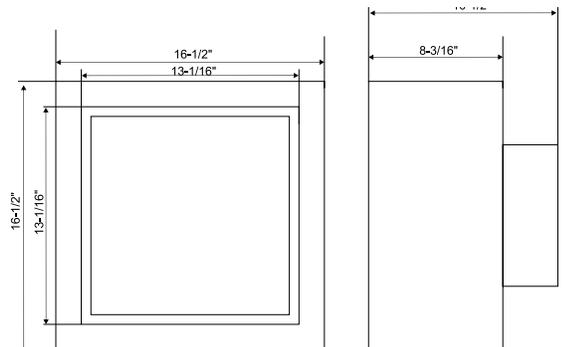
Wall thickness is measured from the back standoffs to the inside mounting surface of termination cap. Create a level surface to mount the vent terminal. The Terminal must not be recessed into siding. Measure the wall thickness.

Flat Wall Installation	
Wall Thickness (inches)	Vent Length Required (inches)
4" - 5-1/2"	6"
7" - 8-1/2"	9"
10" - 11-1/2"	12"
9" - 14-1/2"	11" - 14-5/8" Adj. Pipe
15" - 23-1/2"	17" - 24" Adj. Pipe

Table 1



Power Vent Kit with Vent Terminal			
1	510-994	Rigid Pipe Adaptor	Sold separately
	946-535	Power Vent Kit- includes: Frame, Frame Assembly, Vent Trim, Fan, and Terminal	Sold separately
1	911-250/P	45'-5 Wire BX Cable or	Sold separately
1	911-251/P	90' 5-Wire BX Cable	Sold separately
	Amount required for install	4" x 6-5/8" Rigid Pipe	Sold separately
<b>NOTE: *Slip section is mandatory.</b>			



### INLINE POWER VENT DIMENSIONS

