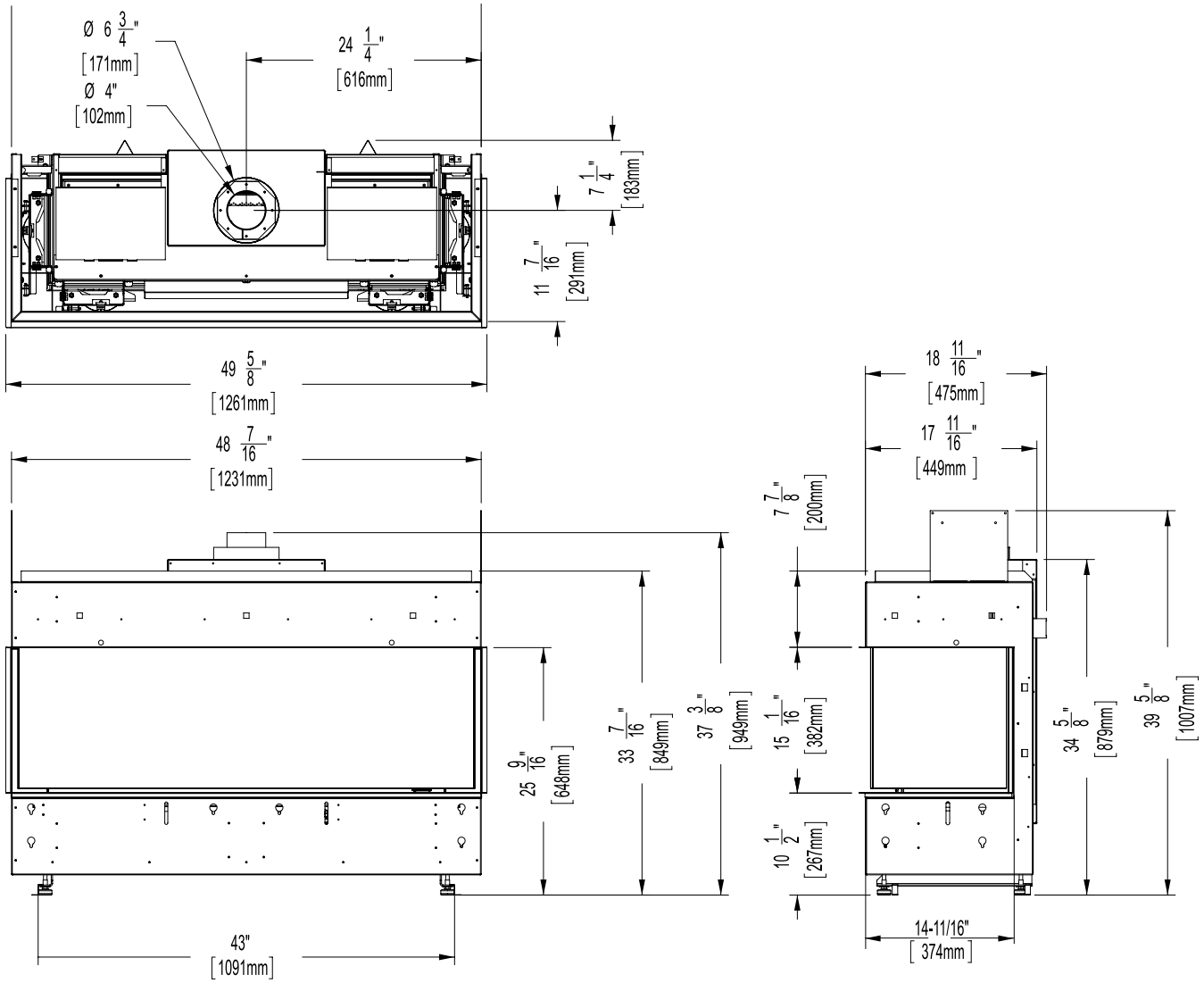
City Series CB40EPV Gas Fireplace

Model	CB40EPV-NG	CB40EPV-LP
Fuel Type	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. (2.62 kPa)
Manifold Pressure - Low	1.1" W.C. (0.27 kPa)	2.9" W.C. (0.72 kPa)
Orifice Size - **Altitude 0-4500 ft.**	#42 DMS	#53 DMS
Minimum Input **Altitude 0-4500 ft. (0-1372m)**	15,500 BTU/h (4.54 kW)	15,500 BTU/h (4.54 kW)
Maximum Input **Altitude 0-4500 ft. (0-1372m)**	28,500 BTU/h (8.33 kW)	28,500 BTU/h (8.33 kW)
Vent Sizing	4" Inner / 6-5/8" Outer	4" Inner / 6-5/8" Outer
CSA P.4.1	60.02%	60.85%

CB40EPV (3-Sided) Dimensions

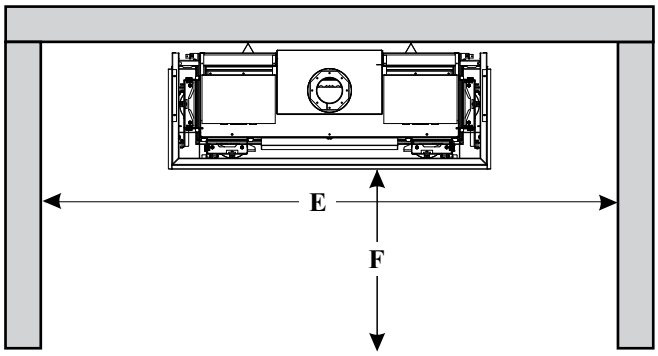


Clearances CB40EPV

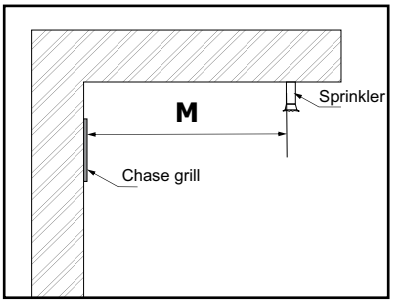
Clearance: 3 sided	Dimension	Measured From:
A: From Floor	Min. 0"	Bottom of Fireplace Opening
A1 : Mantel Height (min.)	**	Top of Fireplace Opening
B: Sidewall (on one side)	8-1/2" (216mm)	Side of Fireplace Opening
C: Enclosure Width (min.)	48-7/16" (1230mm)	Minimum inside dimensions
D: Mantel Depth (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" (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 section		

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" from top of enclosure, required for all installations — this can be achieved by having an open area in front, each side, and/or above as shown in the four diagrams on the next page.*



Alcove



Side view

Heat Wave

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

Caution Requirements

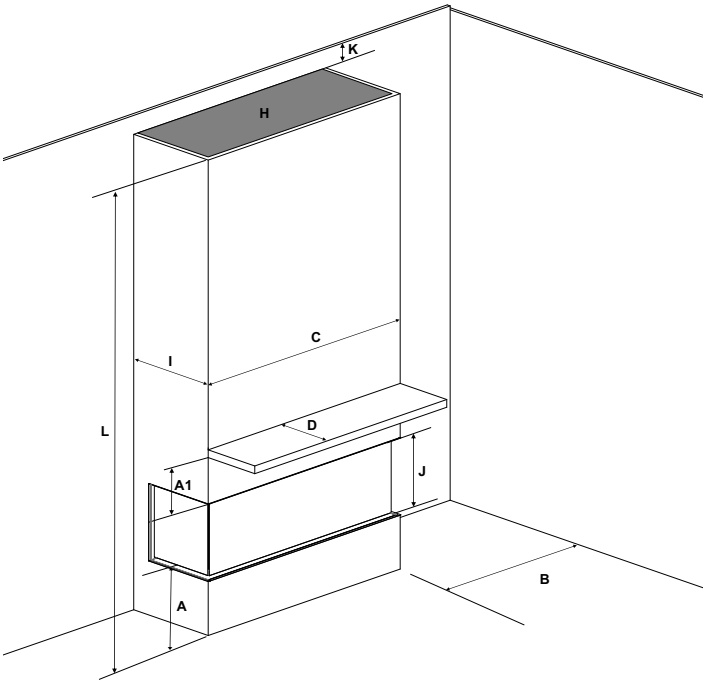
The top, back and sides of the fireplace are defined by standoffs. The metal ends of the standoff may **NOT** be recessed into combustible construction.

WARNING

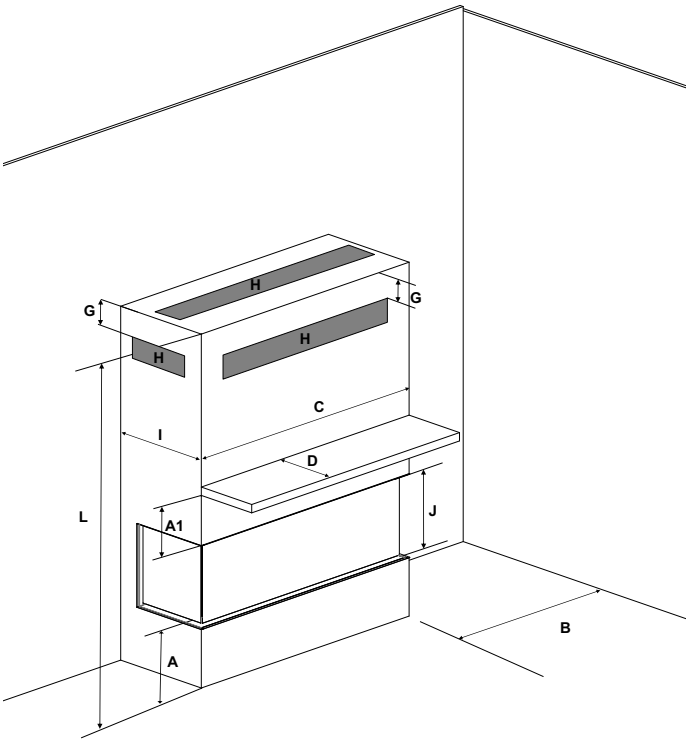
Fire hazard is an extreme risk

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.

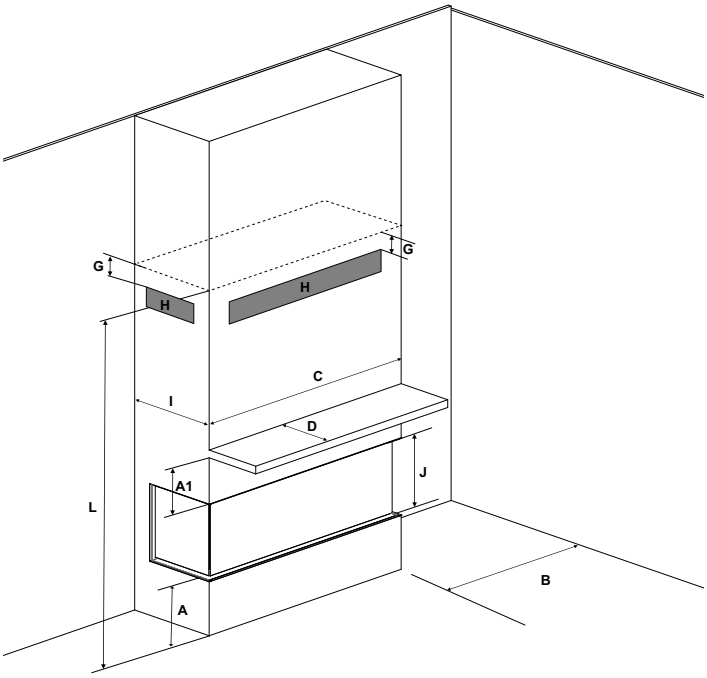
Clearances CB40EPV



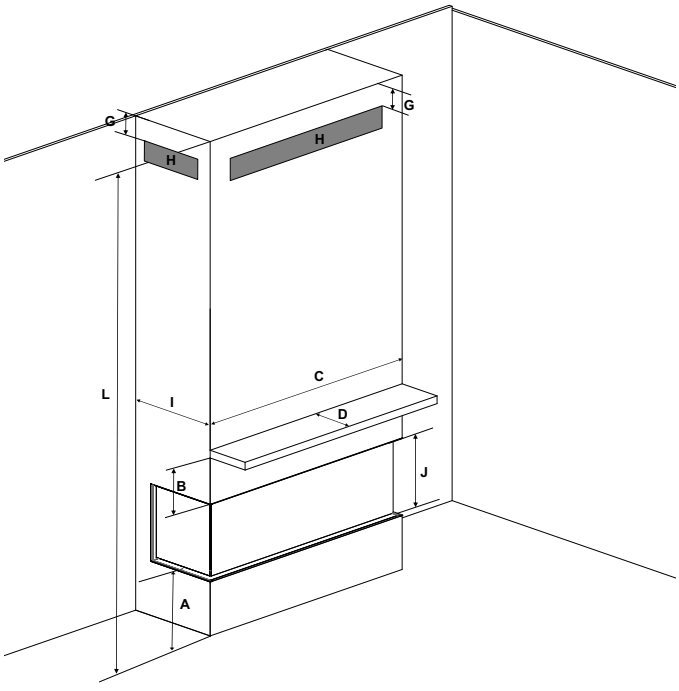
Floor to ceiling with top opening



Low framing with vents in front/sides or top



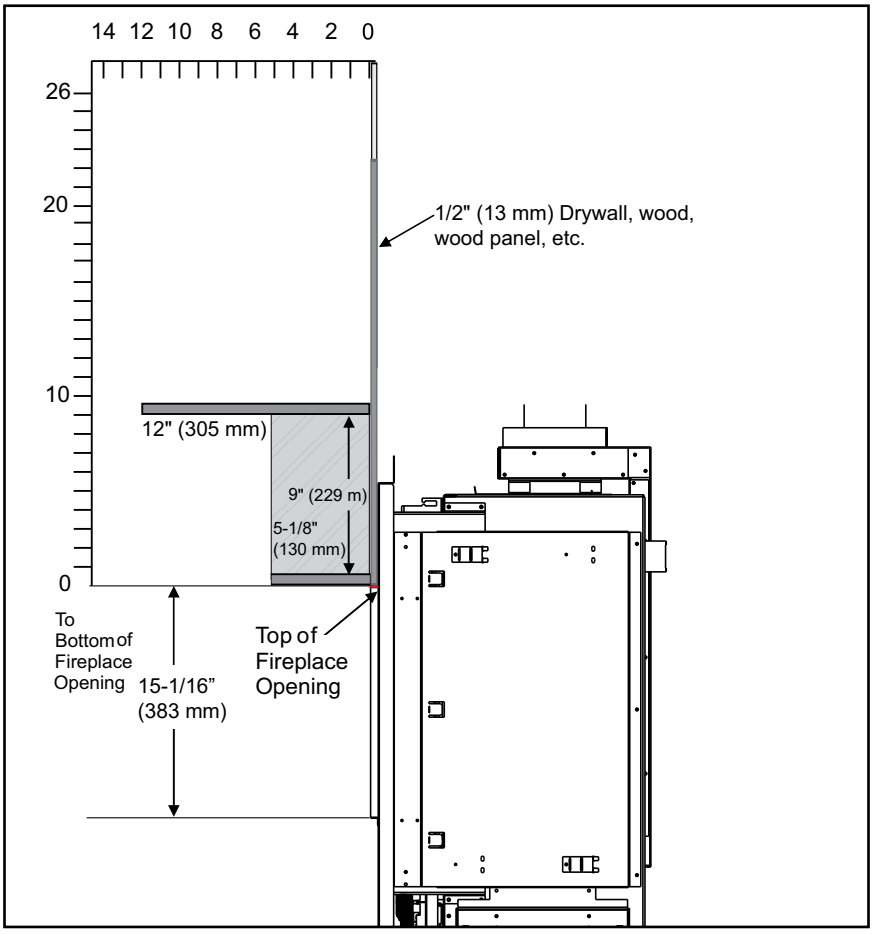
Full framing with low vents in front or sides



Full framing with vents in front or sides

Mantel Clearances

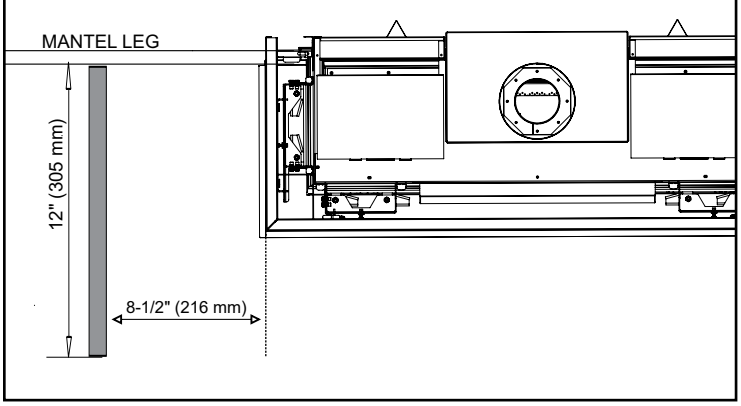
Combustible mantel clearances from top of front facing are shown in the diagram on the right.



Mantel Leg Clearances

Combustible mantel leg clearances as per diagram:

CB40EPV (3 sided)



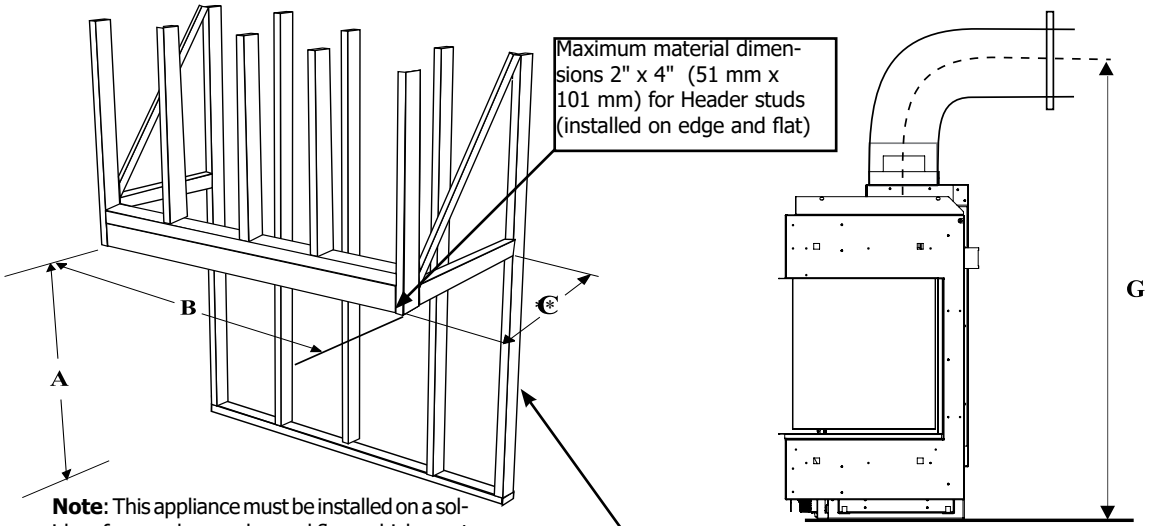
Framing Dimensions

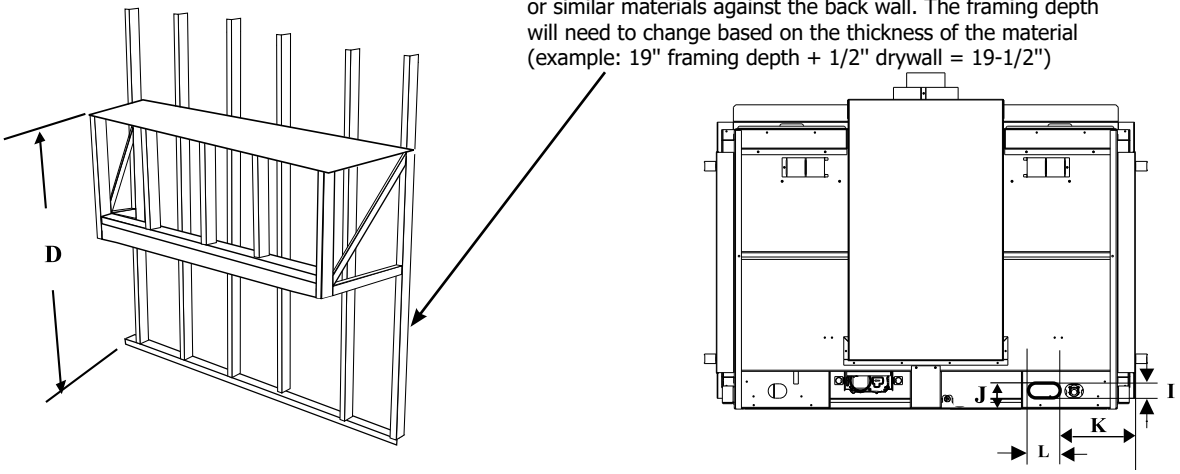
NOTE: Framing may be constructed of combustible material (ie. 2x4) and does not require steel studs. Two (2) optional steel stud kits may also be purchased. These kits may be used in place of the conventional wood framing as shown below. It comes as a compact kit (flush to the appliance on all sides)or an extended kit. The extended kit protrudes beyond each side of the appliance as shown on the front cover of this manual. There is also an optional hearth kit which may be purchased as shown on the front cover of this manual. These kits are highly recommended as it was designed specifically for the product to facilitate ease of installation. See instructions in this manual for details.

Framing Dimensions	Description	CB40EPV
A	Framing Height	37-3/8″ (949 mm)
B	Framing Width	48-1/2" (1232 mm)
C**	Framing Depth	19" (483 mm)
D	Minimum Height to Combustibles	63"(1600 mm)
G*	Vent Centerline Height	45-1/2" (1156 mm)
I	Gas Connection Opening Height	2" (51 mm)
J	Gas Connection Height	4 " (106 mm)
K	Gas Connection Inset	13" (330 mm)
L	Gas Connection Opening Width	3-1/2" (89 mm)

* **Important:** Minimum overall vent run must be 4 feet (1.21 m). Even though centerline is 45 1/2" (1156 mm), if appliance is framed at minimum depth, the 4 feet (1.21 m) 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 CB40EPV (3 sided) in this manual as there are different methods as to how this can be achieved.
Note: Only basic framing dimensions are shown. The framing may also extend beyond the appliance on either side and also extend out front if a hearth is desired. See clearance/finishing requirements for details.
Note: Unit is not load bearing. All finished materials must be supported by framing.

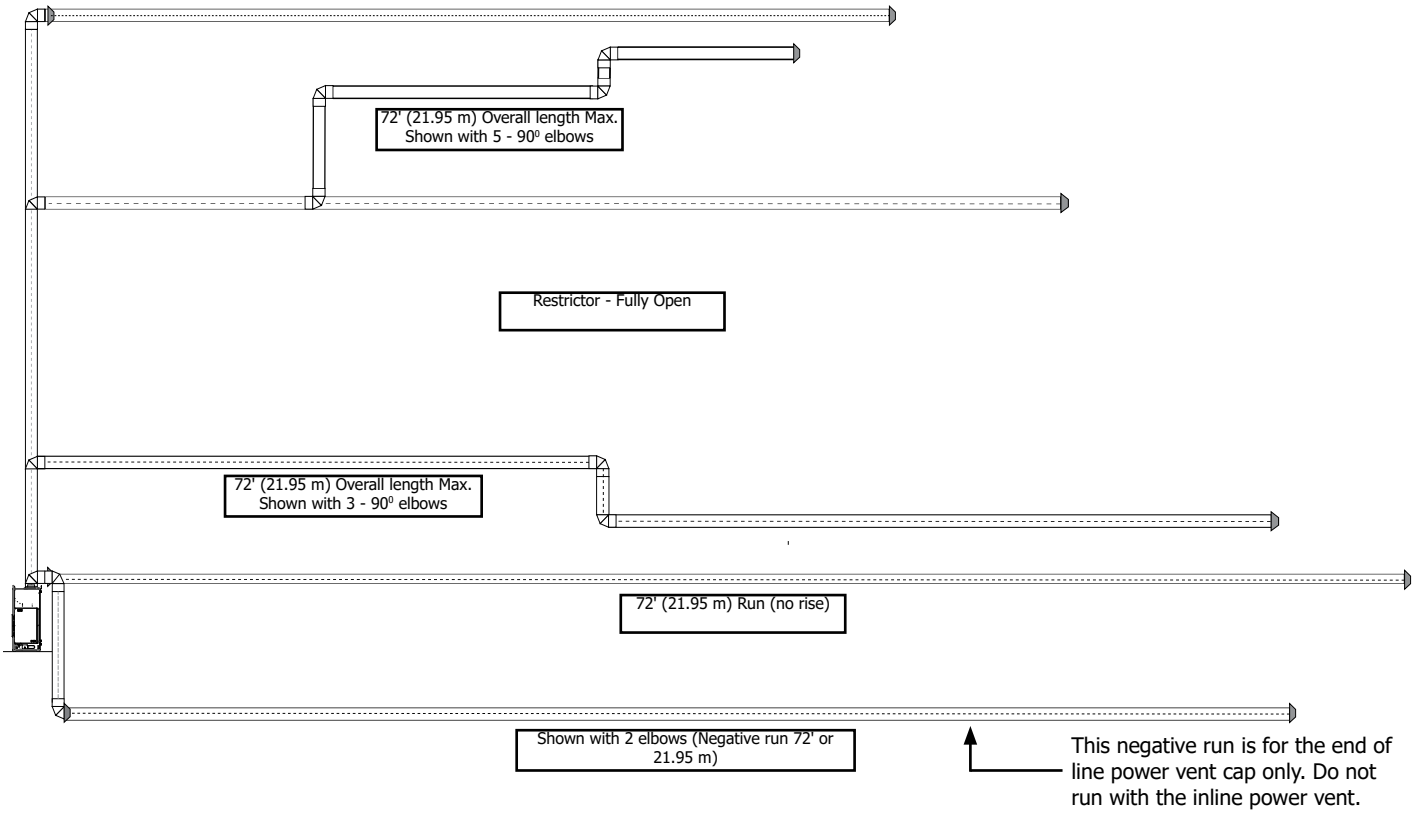




Venting Arrangements for Horizontal Terminations
End of Line Horizontal Vent Chart

RIGID PIPE: MUST USE RIGID PIPE ADAPTOR PART#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 CB40EPV 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.

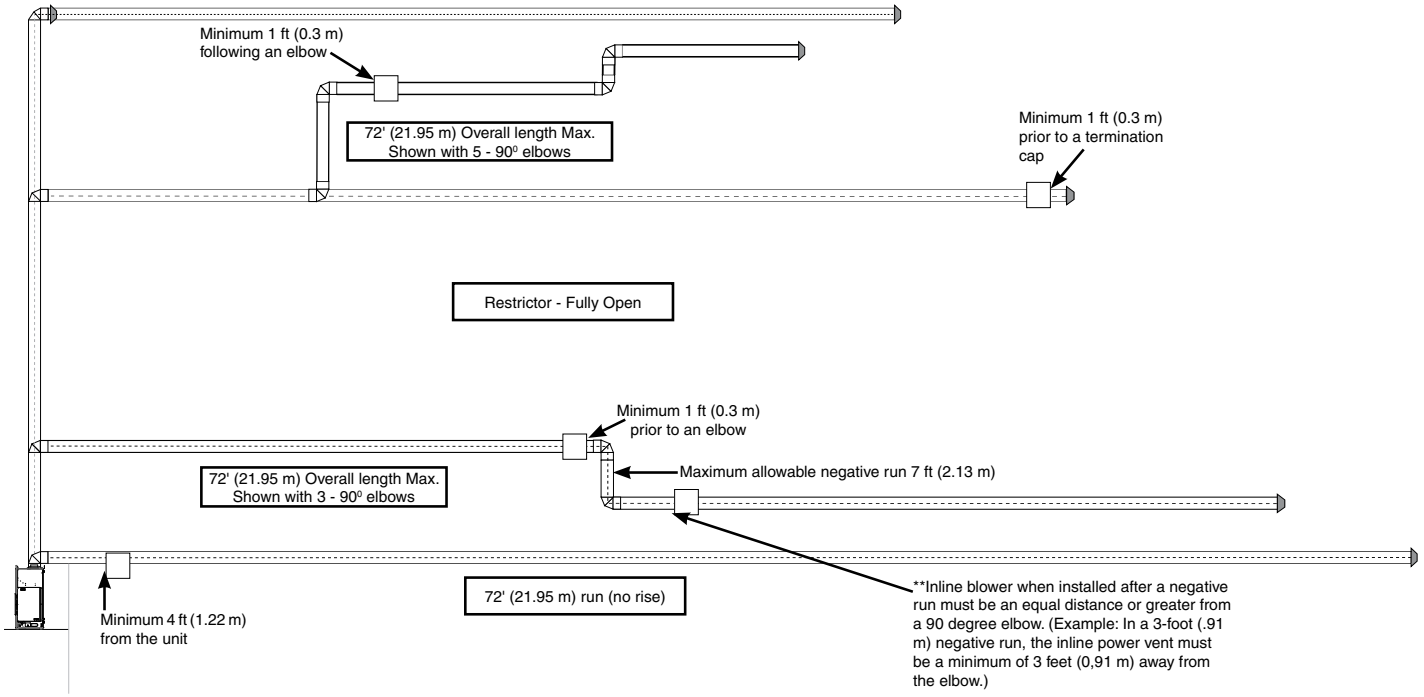
Do not run positive venting after a negative run.

Venting Arrangements for Horizontal Terminations
Inline Horizontal Vent Chart

RIGID PIPE: MUST USE RIGID PIPE ADAPTOR 770-994 AND 946-606 PIPE REDUCER TO 4" X 6 5/8" (102 mm x 168 mm).
Note: Rigid pipe is approved for up to 72 feet (21.95 m).
FLEX VENT: MUST USE REDUCER 946-758 TO 4" X 6 5/8" (102 mm x 168 mm).
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.

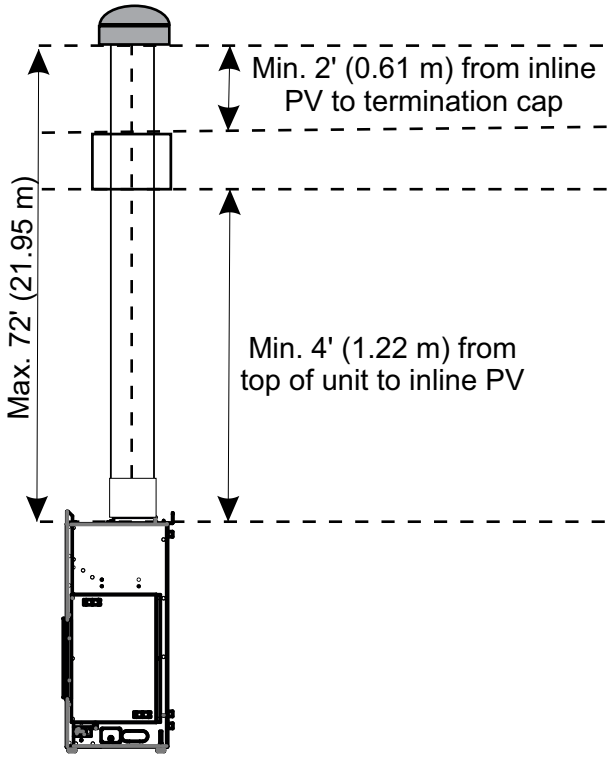
Inline power vent location restrictions:
Minimum 4 ft (1.22 m) from the unit
Minimum 1 ft (0.3 m) prior to an elbow.
Minimum 1 ft (0.3 m) following an elbow.
Minimum 1 ft (0.3 m) prior to a termination cap.
When the inline blower is installed after a negative run, for every foot of negative run the inline blower must be an equal distance or greater from the 90-degree elbow. See example above.

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 770-994 AND 946-606 PIPE REDUCER TO 4" X 6" 5/8" (102 mm x 168 mm)
Note: Rigid pipe is approved for up to 72 feet (21.95 m).
FLEX VENT: MUST USE REDUCER 946-758 TO 4" X 6 5/8" (102 mm x 168 mm).
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.

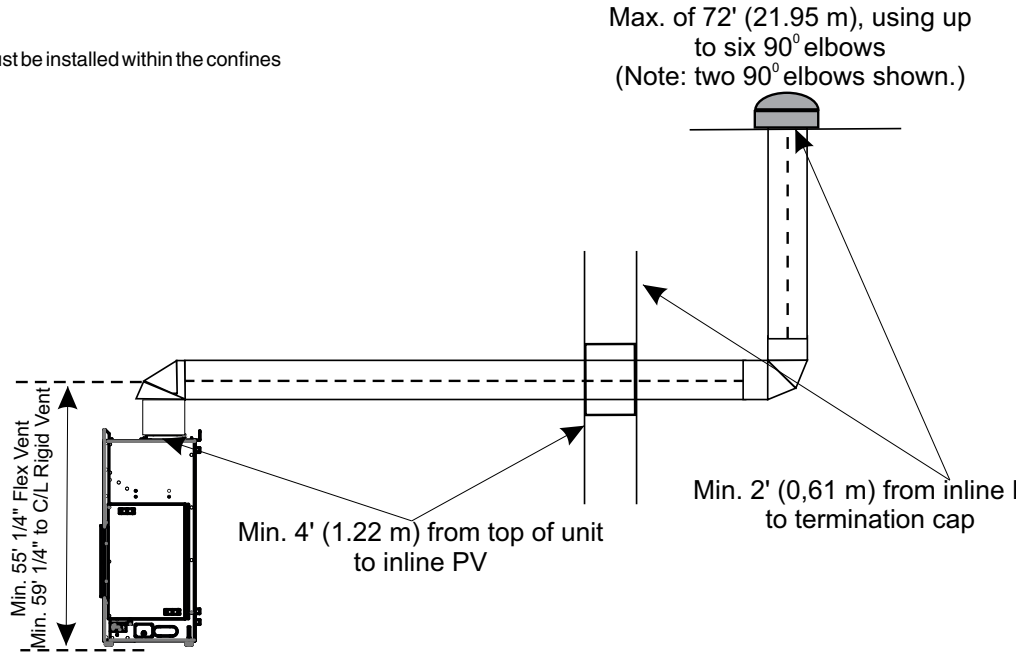


Restrictor set on 0 (fully open) regardless of vent run.

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.

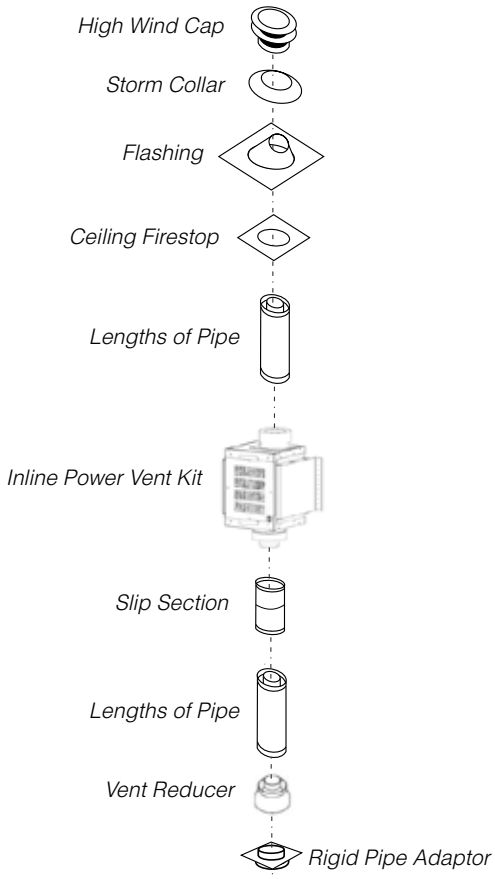


Vertical Inline Power Vent Terminations
Rigid Pipe

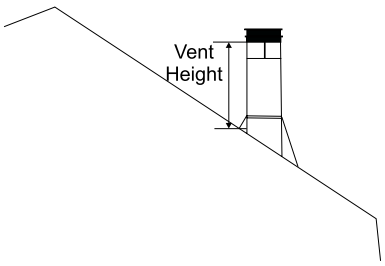
The minimum components required when using inline power vent are:

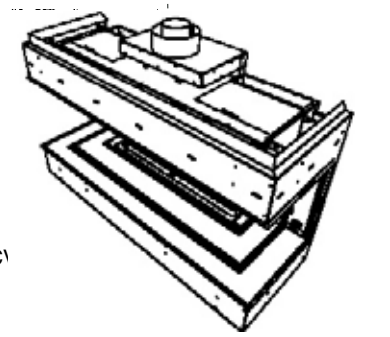
1 High Wind Cap
1 Rigid Pipe Adaptor (770-994)
1 Ceiling Firestop
1 Flashing
1 Storm Collar
1 Lengths of pipe to suit wall thickness & vent run (see chart)
1 Vent Reducer
1 Inline Power Vent Kit

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.

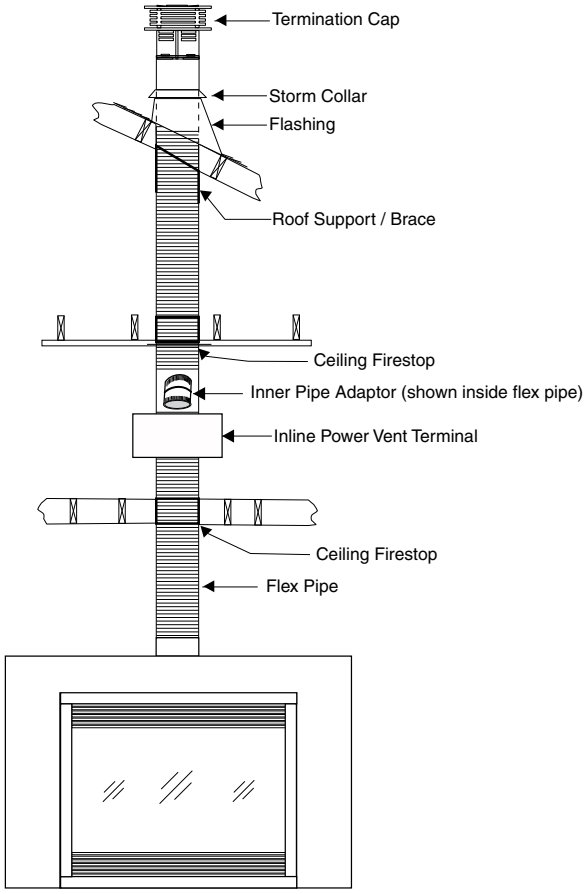
This product has been evaluated by Intertek for using a Rigid Pipe Adaptor in conjunction with Duravent Direct-Vent, Selkirk Direct-Temp, Ameri Vent Direct Venting, ICC Excel Direct, Olympia Ventis DV, and Security Secure Vent systems. Use of these systems with the Rigid Pipe adaptor is deemed acceptable 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.

VERTICAL TERMINATIONS

Flex Pipe

FLEX VENT: MUST USE REDUCER 946-758 TO 4" X 6 5/8" (102 mm x 168 mm)
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 90^0 elbows
- (Note: example shows two 90^0 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).
1 946-758 Reducer (required - 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 this model 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 this model using a flexible vent.

These venting systems, in combination with this model 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 this model using a flexible vent.

Notes:

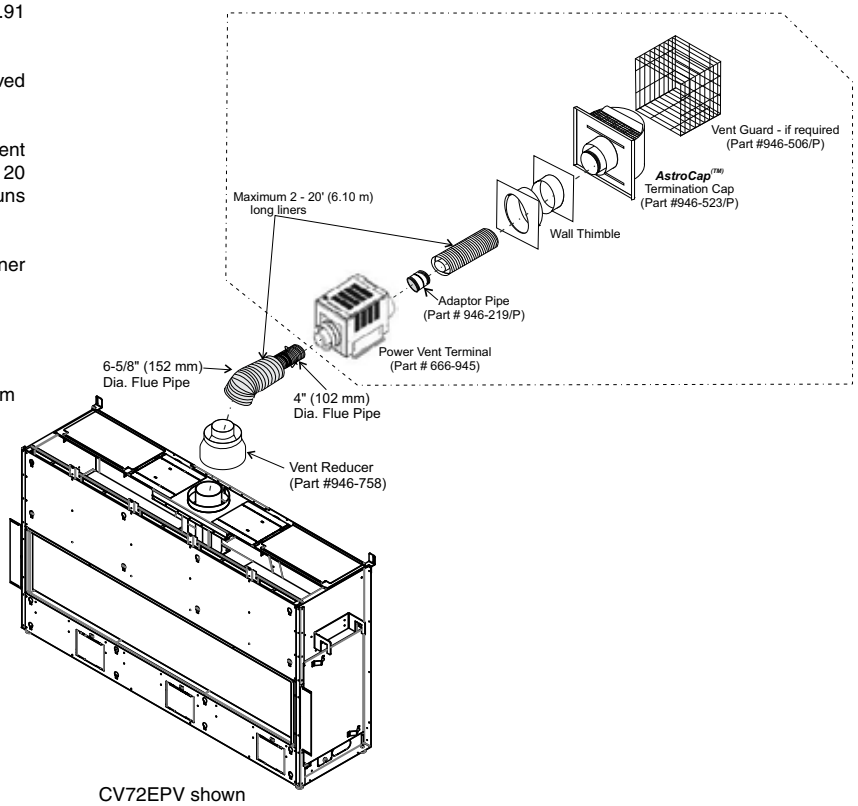
1. Only Flex pipe purchased from Regency® may be used for Flex installations
2. Horizontal vent must be supported every 3 feet (0.91 m).
3. Regency® Direct Vent System (Flex) is only approved for horizontal terminations.
4. Flex system can only be used up to a maximum vent length of up to 40 feet (12.19 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-90º elbows permitted.
One 90º elbow = two 45º 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		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:

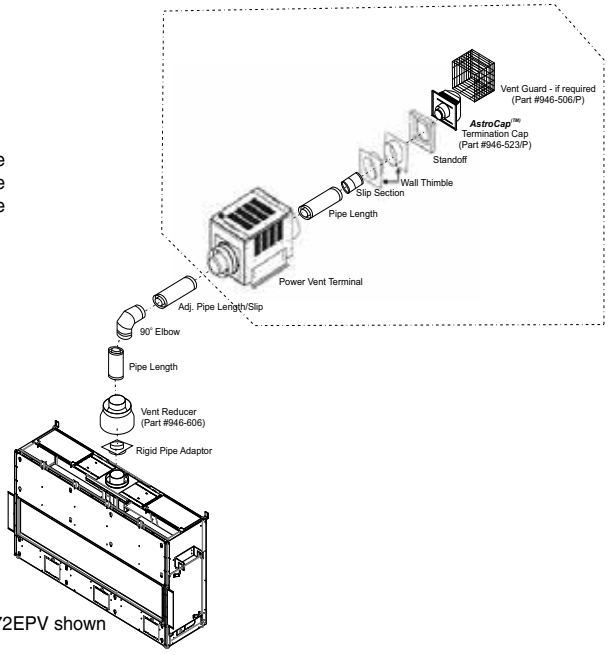
1 Horizontal Termination Cap
1 Power Vent Kit
1 Rigid Pipe Adaptor
1 Vent Reducer
1 Length of pipe to suit wall thickness and total vent run (see Table 1)
Adjustable pipe lengths/slips

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 m)
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 90^0 elbows.
One 90^0 elbow = two 45^0 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
2 Max.	946-606	Reducer (required)	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		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"

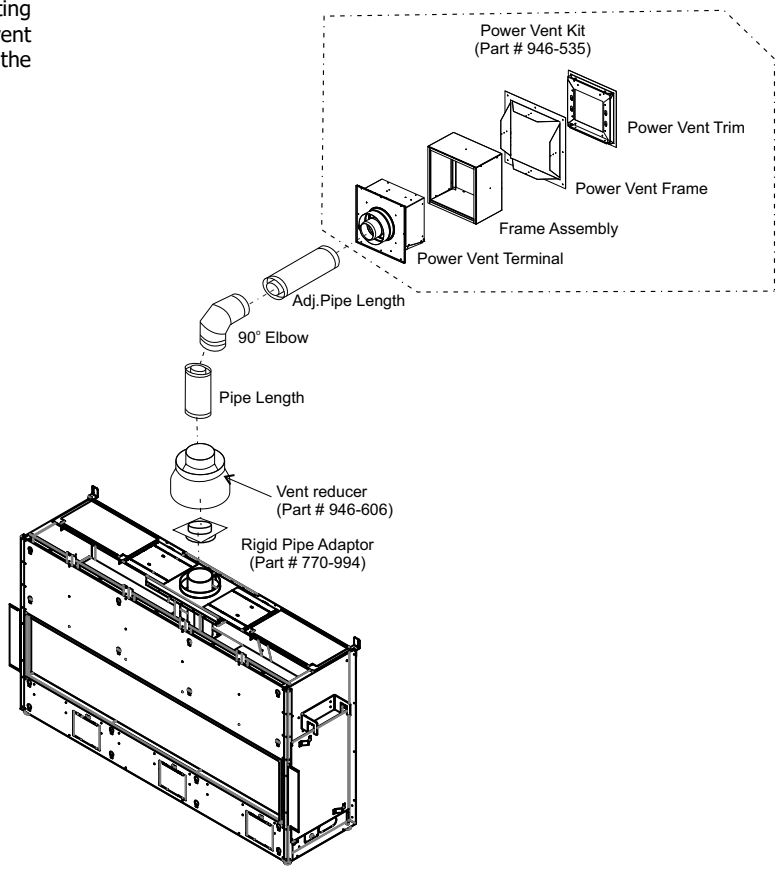
The minimum components required for a basic horizontal termination are:

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

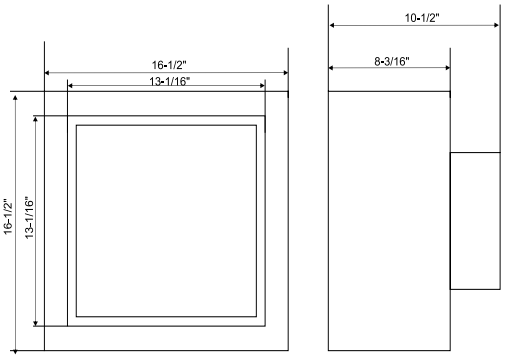
Wall thickness is measured from the back standoffs to the inside mounting surface of termination cap. Create a level surface to mount the vent terminal. The Terminal must not be recessed into siding. Measure the wall thickness.

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	770-994	Rigid Pipe Adaptor	Sold separately
1	946-606	Vent Reducer (required)	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
NOTE: *Slip section is mandatory.			



INLINE POWER VENT DIMENSIONS