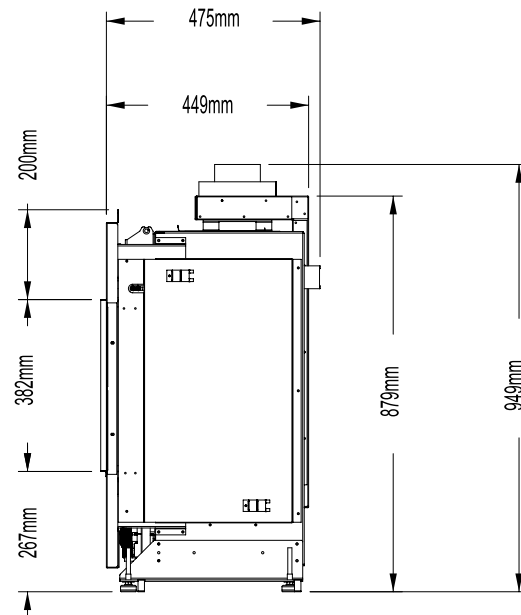
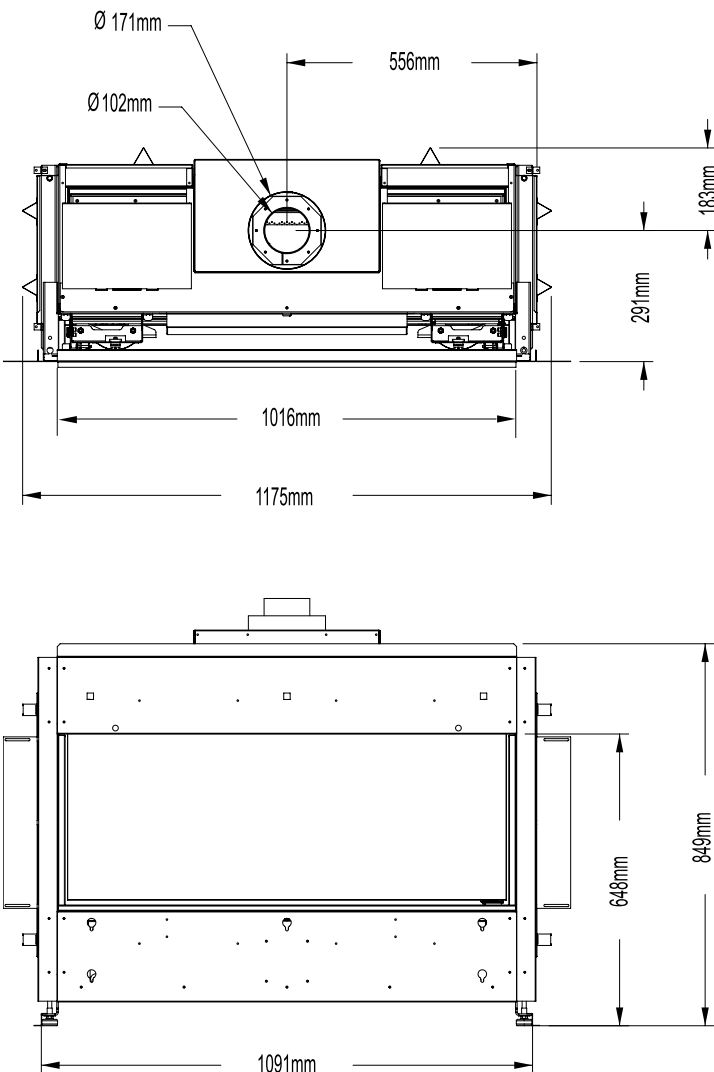


City Series ACV40E Gas Fireplace

MODEL	ACV40ENG	ACV40ELP	ACV40EULPG
Fuel Type	Natural Gas	Propane	ULPG
Gas Consumption	30 MJ/h	30 MJ/h	24 MJ/h
Manifold Pressure	0.96 kPa	2.60 kPa	2.60 kPa
Injector Size	2.40 mm	1 x #53 1.51 mm	1 x #54 1.39 mm



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

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.

CLEARANCES ACV40E

The clearances listed below are Minimum distances unless otherwise stated:

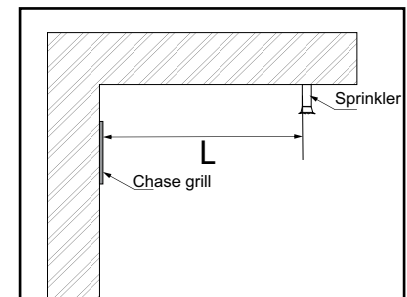
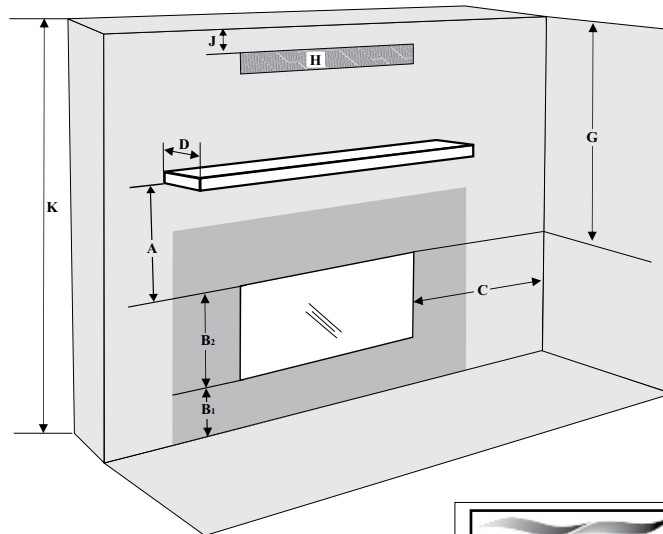
A major cause of chimney related fires is failure to maintain required clearances (air space) to combustible materials. It is of the greatest importance that this fireplace and vent system be installed only in accordance with these instructions.

Clearance: single sided	Dimension	Measured From:
A: Mantel Height (min.)	**	Top of Fireplace Opening
B1: From Floor	Min. 0mm	Bottom of Fireplace Opening
B2: Opening Height	383mm	Bottom/Top of Fireplace Opening
C: Sidewall (on one side)	216mm	Side of Fireplace Opening
D: Mantel Depth (max.)	**	
E: Alcove Width	2134mm	Sidewall to Sidewall (Minimum)
F: Alcove Depth	914mm	Front to Unit (Maximum)
G: Ceiling (in front of fireplace)	953mm	Top of Fireplace Opening
H: Convection Air Outlet	*	Top of Enclosure
J: Convection Air Outlet Opening Offset	0-76mm	Max. offset from top of chase enclosure
K: Chase Enclosure (Min.)	1600mm	From base of unit/floor
L: Clearance to Sprinkler Head (Min.)	914mm	Perpendicular from chase grill
Hearth	0"	No hearth required

** See mantel clearances chart in this manual.

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

*A minimum of 306 square centimetres of open area, not lower than 152mm from top of enclosure, required for all installations



Side view

ACV40E- Single sided



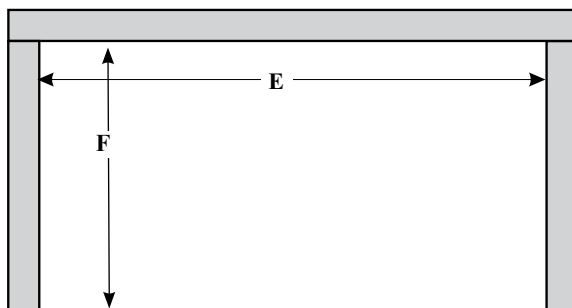
The **HeatWave** Duct Kit has different clearance and framing requirements, check the **HeatWave** manual for details.

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.



Alcove

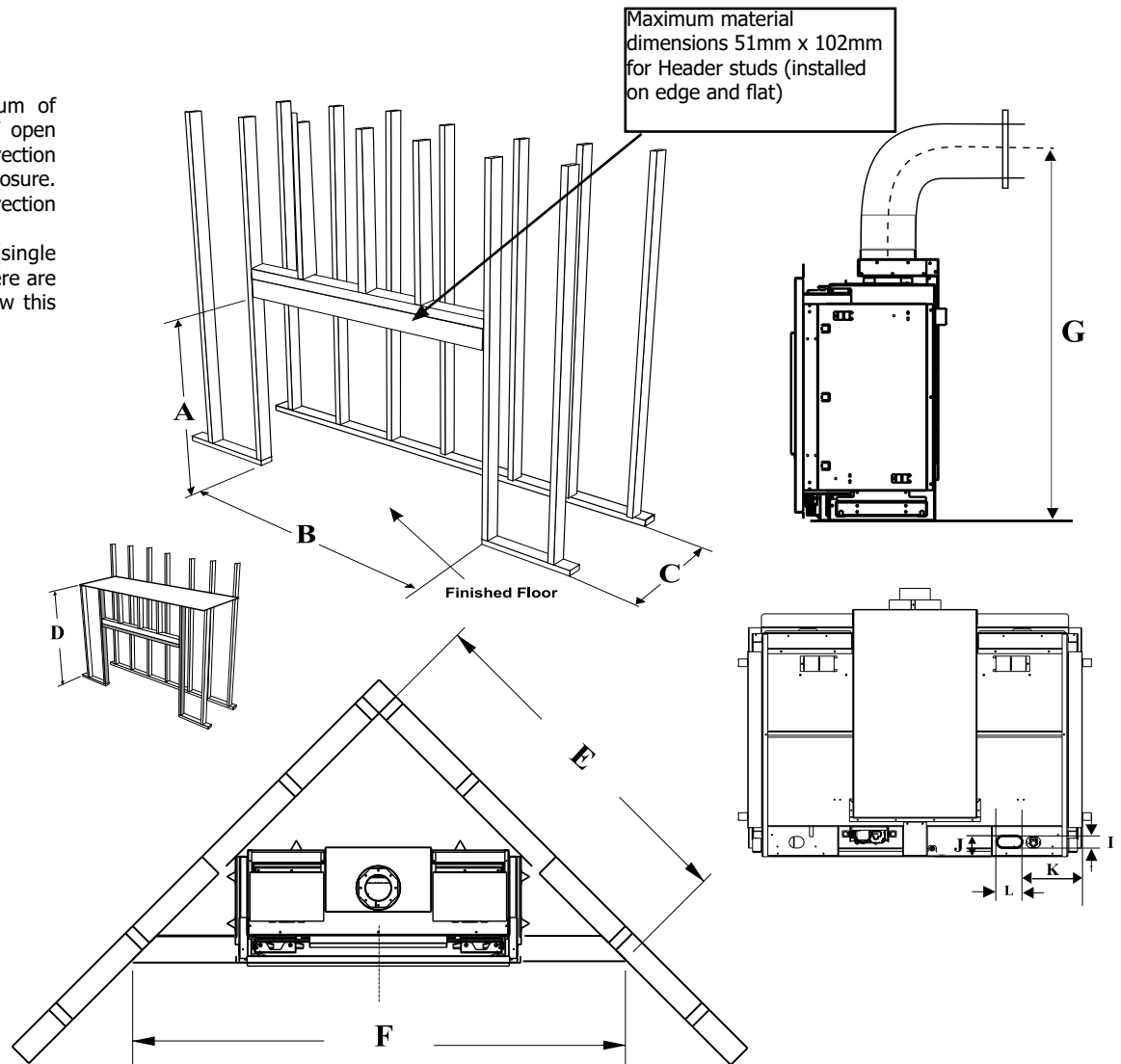
FRAMING DIMENSIONS ACV40E

NOTE: Framing may be constructed of combustible material (ie. 51mm x 102mm) and does not require steel studs.

Framing Dimensions	Description	ACV40E
A	Framing Height	949mm
B	Framing Width	1187mm
C	Framing Depth	483mm
D	Minimum Height to Combustibles	1600mm
E	Corner Wall Depth	1396mm
F	Corner Facing Wall Width	1974mm
G	Vent Centerline Height	1429mm
I	Gas Connection Opening Height	51mm
J	Gas Connection Height	106mm
K	Gas Connection Inset	330mm
L	Gas Connection Opening Width	89mm

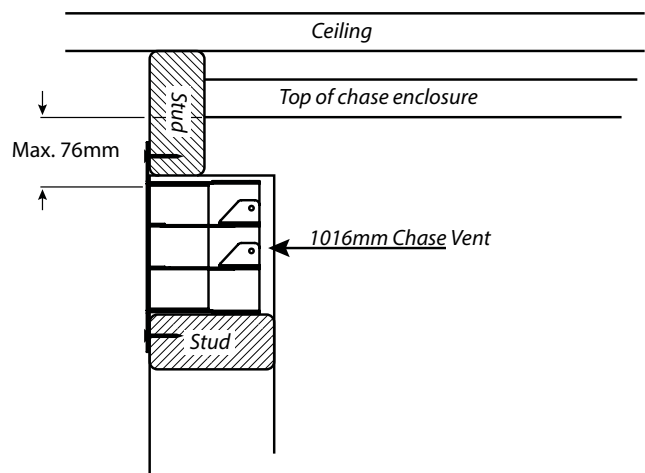
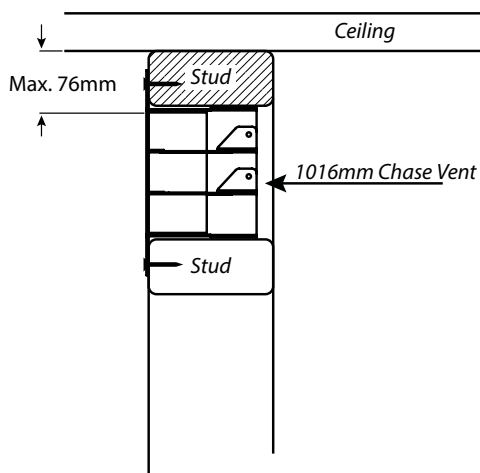
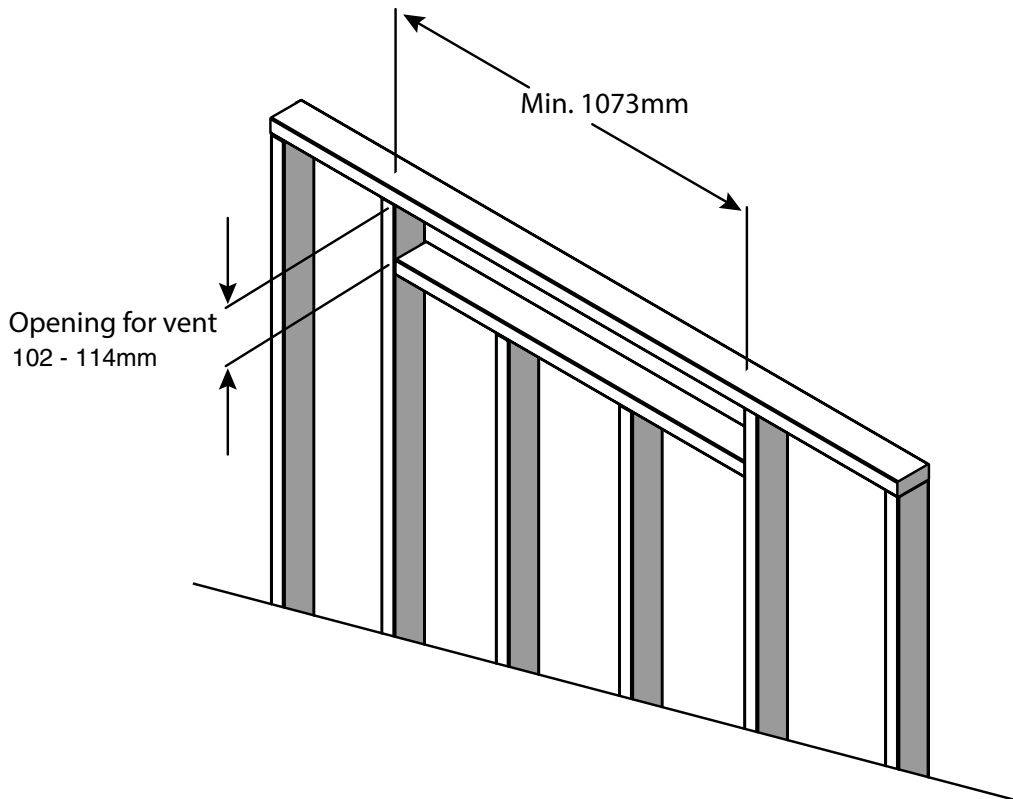
Note: A combined minimum of 774 square centimetres of open area is required for the convection air outlet to cool the enclosure. Ensure clearances for Convection Air Outlets are met. See clearances ACV40E (single sided) in this manual as there are different methods as to how this can be achieved.

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.



CHASE FLUE INSTALLATION ACV40E

Framed opening must be between 102mm and 114mm and at least 1073mm wide to accommodate the chase vent. The top chase vent opening must be 76mm or less from the top of the case enclosure.



Horizontal Terminations

Rigid Pipe 102mm x 175mm

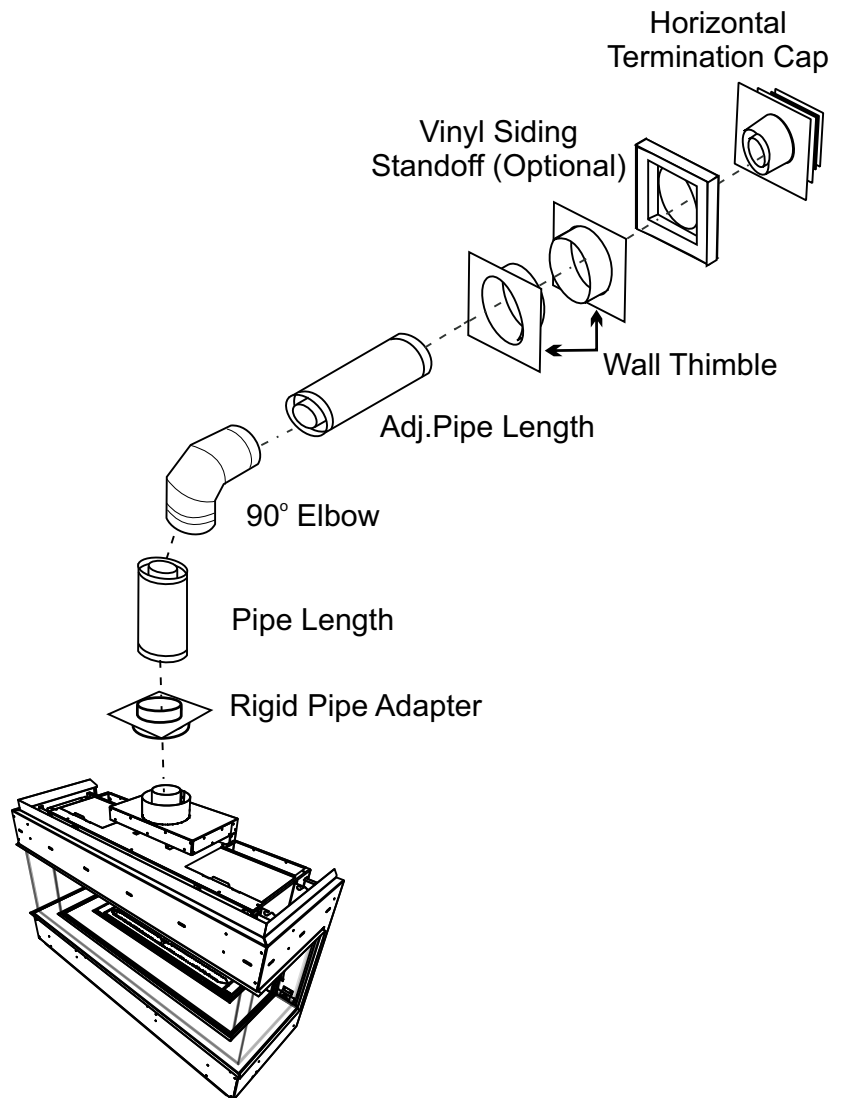
The minimum components required for a basic horizontal termination are:

- 1 Horizontal Termination Cap
- 1 Rigid Pipe Adaptor (510-994)
- 1 Wall Thimble
- 1 Length of pipe to suit wall thickness (see chart)

Wall thickness is measured from the back standoffs to the inside mounting surface of termination cap. For siding other than vinyl furring strips may be used, instead of the vinyl siding standoff, to create a level surface to mount the flue terminal. The Terminal must not be recessed into siding. Measure the wall thickness including furring strips.

If a Vinyl Siding Standoff is required (it must be used with vinyl siding), measure to outside surface of wall without siding and add 51mm.

Flat Wall Installation	
Wall Thickness (mm)	Vent Length Required (mm)
102mm-140mm	152mm
178mm-216mm	229mm
254mm-292mm	305mm
229mm-368mm	279mm-371mm Adj. Pipe
381mm-597mm	432mm-610mm Adj. Pipe



WARNING:

Do not combine flueing components from different flueing systems.

Use of the AstroCap™ and FPI Riser is acceptable with all 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 Chimney and Security Secure Flue 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 Flue other than Simpson Dura-vent, 3 screws must be used to secure rigid pipe to adaptor.

The FPI AstroCap™ and FPI Riser Flue terminal are certified for installations using FPI flueing systems as well as Simpson Dura-vent® Direct Flue, American Metal Products Ameri Flue Direct Flue, Security Secure Flue®, ICC Excel, Selkirk Direct-Temp and Olympia Chimney. AstroCap™ is a proprietary trademark of FPI Fireplace Products International Ltd. Dura-vent® and Direct Flue are registered and/or proprietary trademarks of Simpson Dura-vent Co. Inc.

Horizontal Terminations

Rigid Pipe 102mm x 175mm

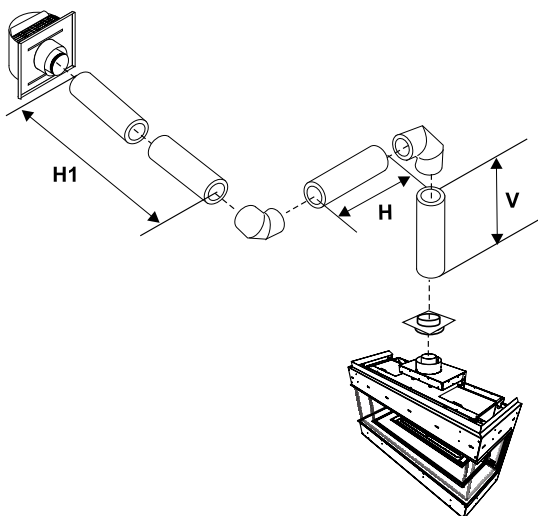
The diagrams below shows examples of horizontal termination arrangements using one, two, or three 90° elbows (two 45° elbows equal one 90° elbow)

1. A maximum of three 90° elbows are permitted.
 2. Minimum distance between elbows is 305mm.
- Maintain clearances to combustibles as listed in the "Clearances" section.
 - Horizontal flue must be supported every 0.9m.
 - Firestops are required at each floor level and whenever passing through a wall.
 - Must use optional rigid pipe adaptor (Part# 510-994) when using rigid pipe flue systems.
 - A flue guard should be used whenever the termination is lower than the specified minimum or as per local codes.
 - Flex system can only be used up to 3m - otherwise rigid flueing must be used.

Horizontal Flueing with Two (2) 90° Elbows

One 90° elbow = Two 45° elbows.

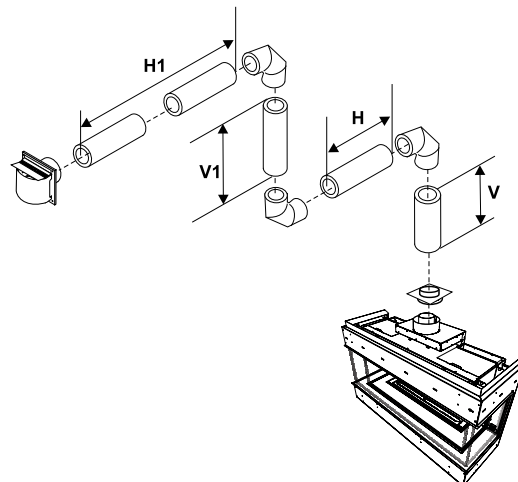
Option	V	H + H1	With these options, maximum total pipe length is 9.1m with minimum of 1.8m feet total vertical and maximum 2.4m total horizontal. Please note minimum 0.3m between 90° elbows is required.
	Min.	Max.	
A)	0.3m	0.6m	
B)	0.6m	1.2m	
C)	0.9m	1.5m	
D)	1.2m	1.8m	
E)	1.5m	2.1m	
F)	1.8m	2.4m	
Restrictor Set 0 - Factory Setting			



Horizontal Flueing with Three (3) 90° Elbows

One 90° elbow = Two 45° elbows.

Op-tion	V	H	V + V1	H + H1	With these options, max. total pipe length is 9.1m with min. of 3.6m total vertical and max. 2.7m total horizontal. Please note min. 0.3m between 90° elbows is required.
	Min.	Max.	Min.	Max.	
A)	0.3m	0.3m	0.6m	0.6m	
B)	0.3m	0.6m	0.9m	0.9m	
C)	0.6m	0.6m	1.5m	1.2m	
D)	0.9m	0.6m	2.1m	1.5m	
E)	1.2m	0.9m	2.7m	1.8m	
F)	1.5m	1.2m	3m	2.1m	
G)	1.8m	1.5m	3.3m	2.4m	
H)	2.1m	1.8m	3.6m	2.7m	
Restrictor Set 0 - Factory Setting					



Flueing Arrangement for Vertical Terminations

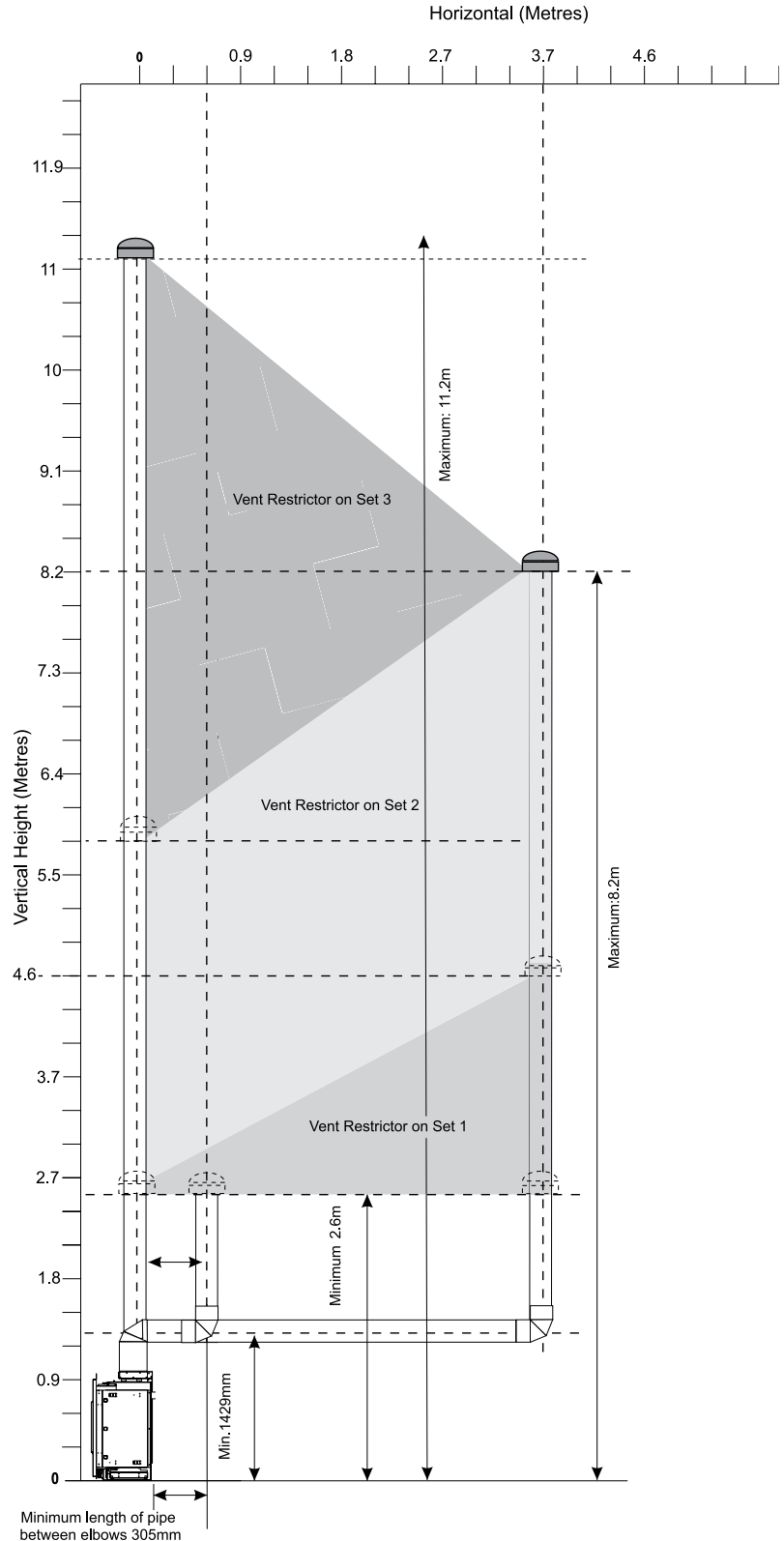
Vertical Flueing with Straight Vertical Flueing and or with a max. of two (2) 90° Elbows (1 - 90° = 2 - 45°)

The shaded area in the diagram shows all allowable combinations of straight vertical and offset to vertical terminations, using two 90° elbows, with **Rigid Pipe Flueing Systems**.

Two 45° elbows equal to one 90° elbow.

- Vent must be supported at offsets.
- Minimum distance between elbows is 305mm.
- Maintain clearances to combustibles as listed in the "Clearances" section.
- Horizontal vent must be supported every 0.9m.
- Firestops are required at each floor level and whenever passing through a wall.
- Must use optional rigid pipe adaptor (Part# 510-994) when using rigid pipe vent systems.
- Refer to the "Vent Restrictor Position" section for details on how to change the vent restrictor from the factory setting of Set 0 through to Set 3 if required.

**"THIS UNIT MUST ALWAYS
TERMINATE / FLUE
DIRECTLY TO THE OUTDOORS."**



Vertical Terminations

Rigid Pipe 102mm x 175mm

- Two 45° elbows equal to one 90° elbow. Maximum of six 45° elbows allowed.
- Flue must be supported at offsets.
- Minimum distance between elbows is 305mm.
- Maintain clearances to combustibles as listed in the "Clearances" section.
- Horizontal flue must be supported every 0.9m.
- Firestops are required at each floor level and whenever passing through a wall.
- Must use optional rigid pipe adaptor (Part# 510-994 when using rigid pipe flue systems)

Vertical Flueing with Three (3) 90° Elbows

One 90° elbow = Two 45° elbows.

Option	V	H + H1	V + V1	<p>With these options, max. total pipe length is 9.1m with min. of 3m total vertical and max. 2.4m total horizontal.</p> <p>Please note min. 0.3m between 90° elbows is required.</p>
	Min.	Max.	Min.	
A)	0.3m	0.6m	0.9m	
B)	0.6m	0.9m	1.2m	
C)	0.9m	1.2m	1.8m	
D)	1.2m	1.5m	2.1m	
E)	1.5m	1.8m	2.4m	
F)	1.8m	2.1m	2.7m	
G)	2.1m	2.4m	3.0m	
Lengths do not include elbow indicated				

