

## Venting Update

We are happy to announce that the vent configuration requirements for all Ortal, Lyric, and Wilderness fireplaces have been updated with the intent to allow for greater ease of design and installation. The following information is approved for use for all Ortal-manufactured fireplaces effective immediately.

All other venting information and installation requirements remain unchanged.

We will be working over the next several weeks to update all our manuals and technical documents with this information. In the meantime, this document serves as official approval letter to permit installations that follow these new installation instructions. This document supersedes all current and previous manuals, and may be applied retroactively.

Warmly,



### Venting

The following sections provide information for calculating vent configuration distances and elbows. For vent configurations that cannot conform to these guidelines, consider Ortal's Power Vent System, or contact Ortal for assistance. Power Vent information can be found in the Power Vent Installation Manual.

#### Please consider the following guidelines when determining vent configuration:

##### Elbows

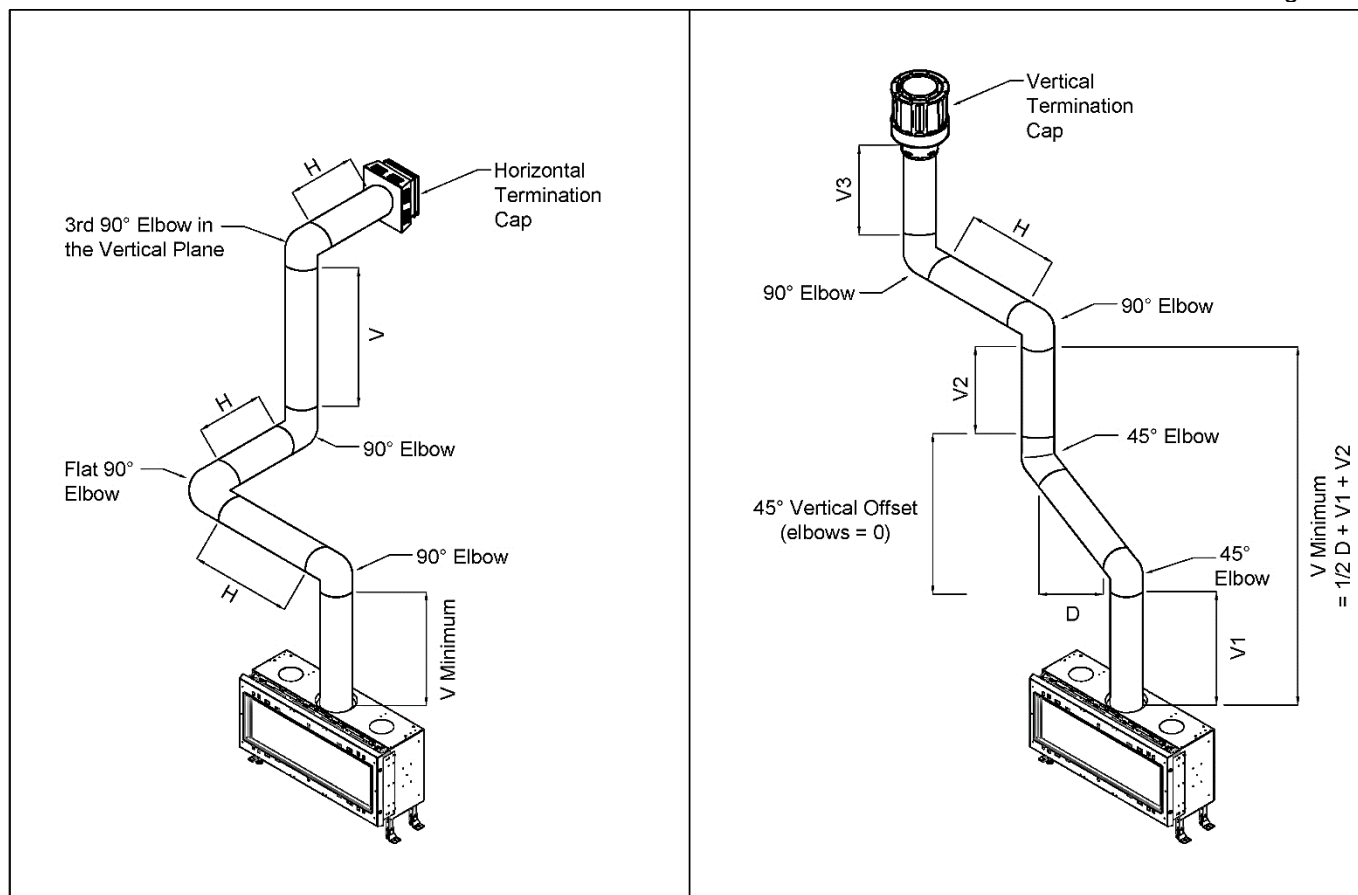
- **Maximum Elbows:** Up to **four** 90° elbows can be used in the vent configuration. Two 45° elbows = one 90° elbow.
  - **45° Vertical Offset Exception:** Two 45° elbows in the vertical plane with a diagonal run in between is equal to **0 elbows**. They are not counted with other elbows in the vent configuration. Diagonal run between the two 45° elbows must be included when calculating vertical and horizontal distances. This offset exception is applicable immediately on the top of the fireplace and anywhere else within the vent configuration.
- **Exceeding two 90° Elbows:** For more than two 90° elbows, the minimum total vertical rise is **6 feet** for 90-250 models. This does not apply to 40-75 models.
- **Flat 90° Elbows:** For every flat 90° elbow (a 90° elbow that stays in the horizontal plane), **6 feet** must be reduced from the total allowable horizontal run. Up to two flat elbows are allowed.
  - Example: If max allowable horizontal run is 24 feet and 1 flat elbow is added, max run is reduced to 18 feet.
- **3rd 90° Elbow in the Vertical Plane:** The 3<sup>rd</sup> elbow in the vertical plane reduces **3 feet** from total allowable horizontal run. Do not include flat elbows when determining which 90° elbow in your configuration is 3<sup>rd</sup> in the vertical plane.

##### Diagonal Runs

- **Calculating Diagonal Runs (D):** Diagonal (45°) vent runs have an equal combination of vertical and horizontal aspects. To include diagonal portions of your desired vent configuration when determining overall vent limitations, divide the diagonal distance in half. Add this value to the total vertical rise and total horizontal run distances in your vent configuration. Include these values when utilizing the Vent Configuration Tables below.
  - Example: 6 feet diagonal run = 3 feet vertical rise & 3 feet horizontal run

##### Other

- **V Minimum:** This is the minimum amount of vertical rise required before the first *completely* horizontal (not diagonal) run.
- Any vent configuration that does not meet these parameters requires Ortal's review and approval.



**! TERMINATION CAP NOTE:** Low Profile Termination Cap and Sconce Termination Cap can negatively impact flame appearance and are not recommended for use with the fireplace.

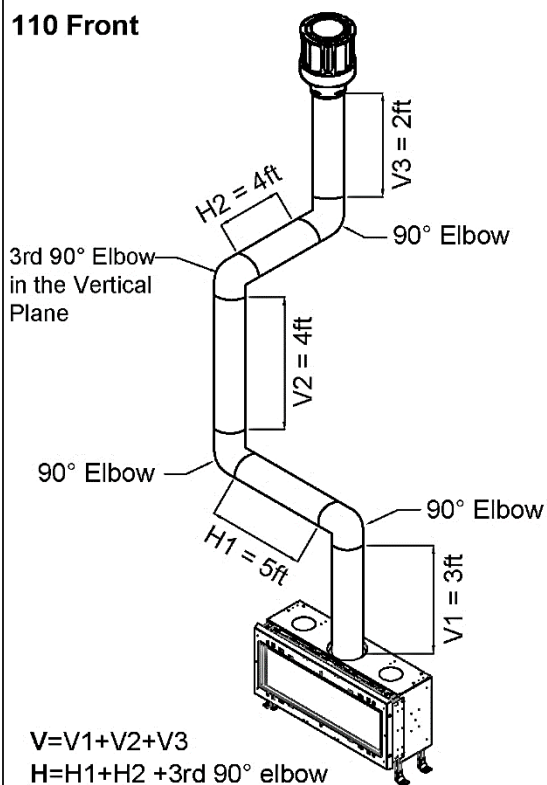
→ Allowable Maximum Horizontal Runs

Series 40-75		Series 110-130 44/H-60/H TR 36-42		Series 150-170 TR 90-110		Series 200		Series 250	
V minimum = 0 ft		V minimum = 3 ft		V minimum = 3 ft		V minimum = 6 ft		V minimum = 6 ft	
Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)
0 ft	12 ft	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 ft	21 ft	3 ft	12 ft	3 ft	9 ft	N/A	N/A	N/A	N/A
6 ft	24 ft	6 ft	24 ft	6 ft	18 ft	6 ft	18 ft	6 ft	3 ft
9 ft	24 ft	9 ft	24 ft	9 ft	21 ft	9 ft	21 ft	9 ft	8 ft
12 ft	24 ft	12 ft	21 ft	12 ft	21 ft	12 ft	21 ft	12 ft	11 ft
15 ft	24 ft	15 ft	21 ft	15 ft	21 ft	15 ft	21 ft	15 ft	12 ft
18 ft	21 ft	18 ft	18 ft	18 ft	21 ft	18 ft	21 ft	18 ft	12 ft
21 ft	18 ft	21 ft	15 ft	21 ft	18 ft	21 ft	18 ft	21 ft	10 ft
24 ft	15 ft	24 ft	12 ft	24 ft	12 ft	24 ft	12 ft	24 ft	8 ft
27 ft	12 ft	27 ft	12 ft	27 ft	9 ft	27 ft	9 ft	27 ft	7 ft
30 ft	12 ft	30 ft	12 ft	30 ft	9 ft	30 ft	9 ft	30 ft	5 ft
33 ft	12 ft	33 ft	12 ft	33 ft	9 ft	33 ft	6 ft	33 ft	4 ft
44 ft	0 ft	44 ft	0 ft	44 ft	0 ft	44 ft	0 ft	36 ft	0 ft

**! CHART NOTE:** Do not include the space elbows take up when calculating your vertical and horizontal distances.

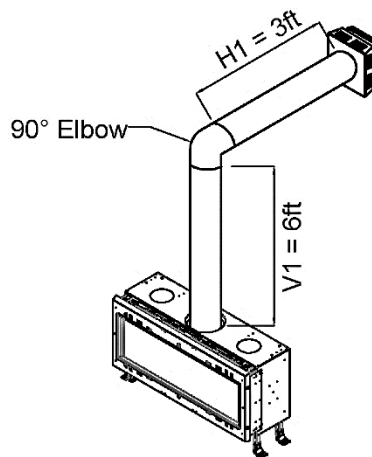
Examples using 110 Front

110 Front



$V = 3ft + 4ft + 2ft = 9ft$   
 $H = 5ft + 4ft + 3ft = 12ft$

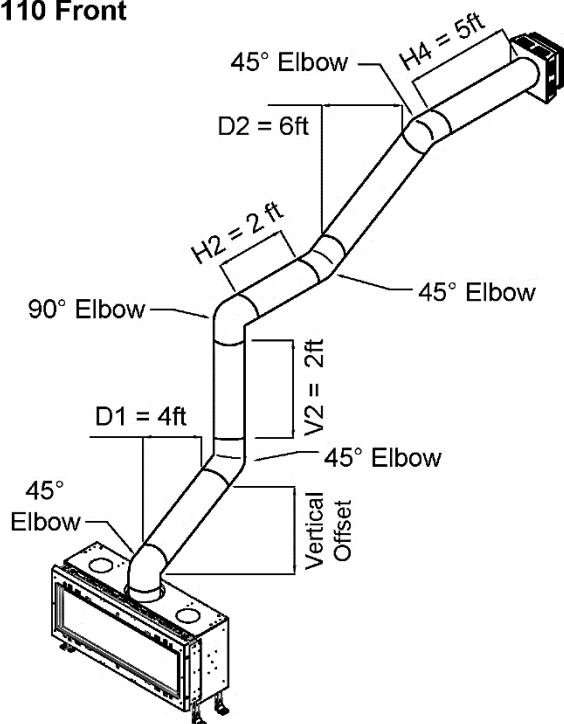
110 Front



$V = V_1$   
 $H = H_1$

$V = 6ft$   
 $H = 3ft$

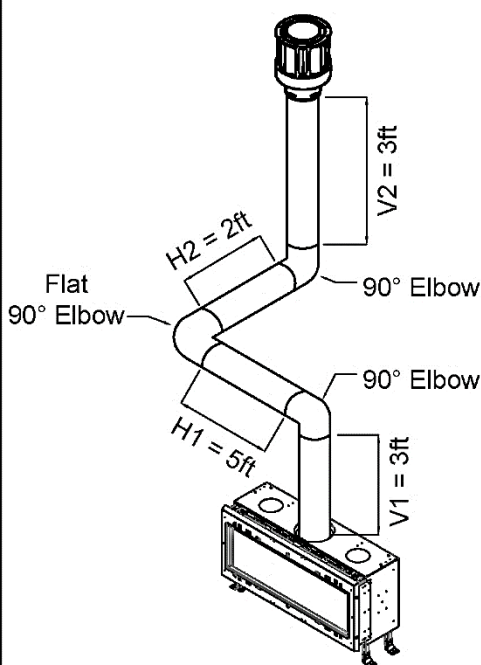
110 Front



$V = (1/2\ D_1) + V_2 + (1/2\ D_2)$   
 $H = (1/2\ D_1) + H_2 + (1/2\ D_2) + H_4$

$V = 2ft + 2ft + 3ft = 7ft$   
 $H = 2ft + 2ft + 3ft + 5ft = 12ft$

110 Front



$V = V_1 + V_2$   
 $H = H_1 + H_2 + 6ft\ (for\ flat\ elbow)$

$V = 3ft + 3ft = 6ft$   
 $H = 5ft + 2ft + 6ft = 13ft$