Co-axial Venting

How to Read the Venting Chart
The chart below applies to co-axial roof or wall termination.

1. A minimum vertical rise of 24 inches is required directly off the unit or after first elbow, as shown.
2. The total length of the vent pipe cannot exceed 40 feet.
3. The minimum vertical height with roof termination is 6 feet.
4. Any combination of rise and run can be used as long as they are within the allowable limits shown on the chart below.
5. A maximum of 4 x 90 degrees elbows—or equivalent (2 x 45 degrees = 90 degrees)—can be used. Excludes the 45 degrees take-off elbow shipped with the appliance.
6. Each 90 degrees elbow installed on the horizontal plane is equivalent to a 3 feet horizontal pipe; therefore, 3 feet must be subtracted from allowable horizontal run. (45 degrees elbow is equivalent to 18 inches horizontal pipe.)
7. All horizontal pipe runs must be graded 1/4 inch per foot upwards in the direction of the exhaust flow. The final pipe length, when terminating through the wall may be graded downwards slightly to prevent water migration.
8. A restrictor adjustment is required for most installations having a vertical rise—see “Restrictor Settings” in your Installation Manual.

Note: The restrictor is shipped installed at the exhaust exit of the firebox.

Vertically Rises (ft)

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40

Horizontally Runs (ft)

0 2 4 6 8 10 12 14 16 18 20

Example 1

V Value = V1 (4') + V2 (3') + V3 (2') = 9'
H Value = H1 (2') = 2'
Restrictor position #1 required

24" minimum vertical pipe rise
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4 x 90° ELBOWS MAXIMUM (or equivalent)

3” min. above top of horizontal pipe

1” min. around vertical pipe

1” min. around bottom & sides of horizontal pipe

Minimum 24” vertical pipe rise required

45° elbow vertical take-off supplied with unit.

SHOULD NOT BE CONVERTED TO REAR OUTLET!