Venting

Maximum pipe length:
- 24” (straight out with snorkel)
- 14” (45° elbow out with snorkel)

Snorkel required (min. 14” high) with horizontal run through the wall (no rise)

No more than one 45° elbow allowed

Through wall (without vertical rise)

Through wall (with vertical rise)

Through roof
1. The total length of the vent pipe cannot exceed 40 feet (12.2 m).
2. The minimum vertical height with roof termination is 8 feet (2.45 m).
3. Any combination of rise and run can be used as long as they are within the allowable limits shown on the chart below.
4. A maximum of 5 x 90 degrees elbows or equivalent (2 x 45 degrees = 90 degrees) can be used.
5. 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.)
6. All horizontal pipe runs must be graded 1/4 inch per foot upwards in the direction of the exhaust flow.
7. Co-linear rear venting in existing chimney systems is limited to 40 feet vertical rise.
8. Restrictors are not required for co-linear installations.

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**Example 1**

\[ V \text{ Value} = V1 (6') + V2 (6') + V3 (2') = 14' \]

\[ H \text{ Value} = H1 (3') + H2 (3') = 6' \]

75% restrictor required

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**Rear or top outlet—**

**with vertical rise only**

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**5 x 90° ELBOWS**

**MAXIMUM**

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**Allowable Vent Configurations**

**NO INSTALLATION**

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**Restrictor 75**

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**Restrictor 50**

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**NO RESTRICTORS**

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**NO INSTALLATION**

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**HORIZONTAL RUN**

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**VERTICAL RISE**

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