

## 1700 L2 Linear Direct Vent ZC Co-axial Venting

May 2013 1/1

## **How to Read the Venting Chart**

The chart below applies to co-axial roof or wall termination.

- 1. Minimum 12 inch vertical pipe section required within vent system either right off unit or down-stream after horizontal run.
- 2. The total length of the vent pipe cannot exceed 40 feet.
- 3. The minimum vertical height with roof termination is 6 feet.
- 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.

- 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.)
- 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.
- A restrictor adjustment is required for most installations having a vertical rise—see next section.
  Note: The restrictor is shipped installed at the exhaust exit of the firebox.

**Venting Chart Allowable Co-Axial Vent Configurations** 4 x 90° ELBOWS MAXIMUM with restrictor positions (or equivalent) 40 V3 38 3" min. above top of 36 **NO INSTALLATION** horizontal pipe 34 H2 1" min. Position #5 all around 1" min. around vertical pipe 30 bottom & sides of horizontal pipe 28 26 **VERTICAL RISE (ft** Position #4 22 20 Minimum 12" Position #3 pipe section 16 12 V1 Example 1 Example 1 10 V Value = V1 (3') + V2 (2') + V3 (1')= 6' Position #2 H Value = H1 (3') + H2 (2') = 5' 8 Restrictor position # 2 required Position #1 12" minimum vert pipe rise NO INSTALLATION 45° elbow take-off supplied with unit 10 20 HORIZONTAL RUN (ft)