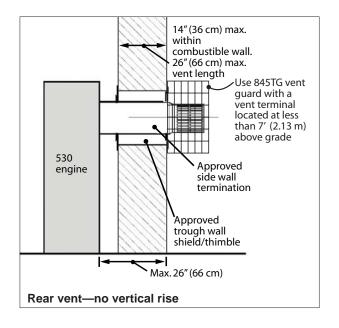
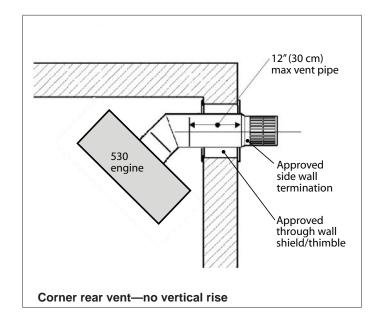


# 530I Portrait Direct Vent Zero Clearance Venting—Co-Axial—no Vertical Rise

May 2014 1/3

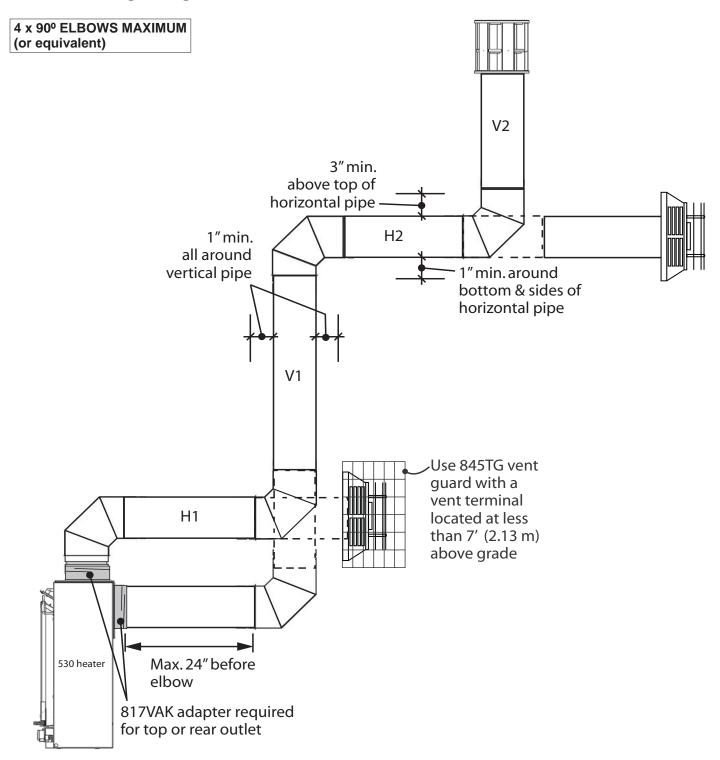
## **Rear Vent with No Vertical Rise**







### **Co-Axial Venting Configurations with Vertical Rise**





## 530I Portrait Direct Vent Zero Clearance Venting—Co-Axial—with Vertical Rise

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## How to Read the Venting Chart

The chart below applies to co-axial roof or wall termination in installations with vertical rise. See installation manual for applications with no vertical rise.

- 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 (2.44 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 4 x 90 degrees elbows—or equivalent (2 x 45 degrees = 90 degrees)—can be used.

- 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.
- 7. Maximum co-linear venting is 40 feet (12.2 m).
- 8. A restrictor is required for all installations—see *Installation* section in heater manual for more information.

#### Venting Chart—Allowable Co-Axial Vent Configurations with Vertical Rise

40 38 NO INSTALLATION 36 34 32 30 28 26 Vertical Rise (ft) 24 22 20 18 16 14 Example 1 12 10 8 6 4 Example 1 2 V Value = V1 (6') + V2 (4') = 10' 1 NO INSTALLATION H Value = H1 (2') + H2 (1') = 3' 1 2 3 4 5 6 8 10 12 14 16 Horizontal Run (ft)

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Top or Rear outlet