

2015 IFGC Vertical vent maximum size:

**503.5.5 Size of chimneys.** The effective area of a chimney venting system serving *listed* appliances with draft hoods, Category I appliances and other appliances *listed* for use with Type B vents shall be determined in accordance with one of the following methods:

1. The provisions of Section 504.
2. For sizing an individual chimney venting system for a single *appliance* with a draft hood, the effective areas of the vent connector and chimney flue shall be not less than the area of the *appliance* flue collar or draft hood outlet, nor greater than seven times the draft hood outlet area.
3. For sizing a chimney venting system connected to two appliances with draft hoods, the effective area of the chimney flue shall be not less than the area of the larger draft hood outlet plus 50 percent of the area of the smaller draft hood outlet, nor greater than seven times the smallest draft hood outlet area.
4. Chimney venting systems using mechanical draft shall be sized in accordance with *approved* engineering methods.
5. Other *approved* engineering methods.

**504.3.17 Vertical vent maximum size.** Where two or more appliances are connected to a vertical vent or chimney, the flow area of the largest section of vertical vent or chimney shall not exceed seven times the smallest listed appliance categorized vent areas, flue collar area or draft hood outlet area unless designed in accordance with *approved* engineering methods.

Smallest Connector Size (inches)	Maximum Common Vent size (Square Inches)	Maximum Common Round Vent (inches)
3	49.48	7
4	87.96	10
5	137.44	13
6	197.92	15
7	269.39	18
8	351.85	21
9	445.32	23
10	549.78	26

Example: 3" connector

$3 \times 3 \times .7854 = 7.06$  area  $\times 7 = 49.48$  (49.48 is 7 times the area) the common vent cannot exceed 49.48 sq inches when a 3 inch connector is used.