



2007 CA MECHANICAL  
CODE 701.2.1.1

STANDARD METHOD  
EQUATIONS:

701.2.1.1 (a) & 701.2.1.1 (b)

COMBUSTION AIR

**701.2.1 Standard Method**

The minimum required volume shall be fifty (50) cubic feet per 1,000 Btu/hour (4.8m<sup>3</sup> /kW) [NFPA 54: 9.3.2.1].

**701.2.1.1 Known Air Infiltration Rate Method Equations.**

**Equation 701.2.1.1(a):**

Required Volume  $I_{other} \geq (21 \text{ ft.}^3 / \text{ACH}) \times (I_{other}/1,000 \text{ Btu/hr})$

**Equation 701.2.1.1(b):**

Required Volume  $I_{fan} \leq (15 \text{ ft.}^3 / \text{ACH}) \times (I_{fan}/1,000 \text{ Btu/h.})$

**WHERE:**

**$I_{other}$**  = all appliances other than fan-assisted input in Btu per hour

**$I_{fan}$**  = fan-assisted appliance input in Btu per hour

**ACH** = air change per hour (percent of volume of space exchanged per hour, expressed as a decimal)