

Conversion of scfm to acfm

$$acfm = scfm \times \frac{P_s}{[P_a - (ppm \times RH)]} \times \frac{(T_a + 460)}{(T_s + 460)}$$

Where:

Ps = Standard pressure, psia (CAGI & ISO use 14.5 psia)

Pa = Atmospheric pressure, psia

ppm = Partial pressure of moisture at atmospheric temperature

RH = Relative humidity

Ta = Atmospheric Temperature, °F

Ts = Standard Temperature, °F (CAGI and ISO use 68 °F)

(CAGI and ISO standard is at zero RH)