

PSYCHROMETRIC CHART

I-P Units
SEA LEVEL
BAROMETRIC PRESSURE: 29.921 in. HG



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Dehumidification Capacity

CFM → Supply Grains/Lb → Space Grains/Lb

$$\frac{\text{Grains}}{\text{Hr}} = 4.5 \times \text{CFM} \times \Delta \text{Gr/Lb}$$

Required Supply Air Humidity Ratio

CFM → Supply Grains/Lb → Space Gr/Lb
Moisture Load Gr/Hr

$$\frac{\Delta \text{Grains}}{\text{Lb}} = \frac{\text{Gr/Hr}}{4.5 \times \text{CFM}}$$

Required Supply Air Flow Rate

CFM → Supply Grains/Lb → Space Grains/Lb
Moisture Load Gr/Hr

$$\text{CFM} = \frac{\text{Gr/Hr}}{4.5 \times \Delta \text{Gr/Lb}}$$

Total Heat

CFM → h1 → Sensible + Latent Heat → h2 → BTU

$$\text{BTU} = 4.5 \times \text{CFM} \times \Delta h$$

h = Enthalpy (Btu/Lb)

