



PSYCHROMETRIC CHART

BAROMETRIC PRESSURE 29.921 INCHES OF MERCURY

COOLING FORMULAS:

$$BTUH_{Total} = BTUH_{Sensible} + BTUH_{Latent}$$

$$BTUH_{Total} = (4.5) \times (CFM) \times \Delta H$$

$$BTUH_{Sensible} = (1.08) \times (CFM) \times \Delta T$$

$$BTUH_{Latent} = 0.68 \times CFM \times \Delta W$$

$$1 \text{ Ton} = 12 \text{ MBH} = 12,000 \text{ BTUH}$$

FAN AFFINITY LAWS:

$$CFM_2 = CFM_1 \times (RPM_2 / RPM_1)$$

$$P_2 = P_1 \times (RPM_2 / RPM_1)^2$$

$$BHP_2 = BHP_1 \times (RPM_2 / RPM_1)^3$$

