

SENSIBLE HEAT FORMULA (Furnaces):

BTU/hr. - Specific Heat X Specific Density X 60 min./hr. =
X CFM X ΔT

$$.24 \times .075 \times 60 \times \text{CFM} \times \Delta T = \underline{1.08 \times \text{CFM} \times \Delta T}$$

ENTHALPHY = Sensible heat and Latent heat

TOTAL HEAT FORMULA

(for cooling, humidifying or dehumidifying)

$$\begin{aligned}\text{BTU/hr.} &= \text{Specific Density} \times 60 \text{ min./hr.} \times \text{CFM} \times \Delta H \\ &= 0.75 \times 60 \times \text{CFM} \times \Delta H \\ &= \underline{4.5 \times \text{CFM} \times \Delta H}\end{aligned}$$

$$\text{RELATIVE HUMIDITY} = \frac{\text{Moisture present}}{\text{Moisture air can hold}}$$

DEW POINT = when wet bulb equals dry bulb

TOTAL PRESSURE (Ductwork) = Static Pressure plus
Velocity Pressure

CFM = Area (sq. ft.) X Velocity (ft. min.)

HOW TO CALCULATE AREA

Rectangular Duct

$$A = \underline{L \times W}$$

Round Duct

$$A = \frac{\pi D^2}{4} \quad \text{OR} \quad \underline{\frac{\pi r^2}{4}}$$

RETURN AIR GRILLES - Net free area = about 75%

3 PHASE VOLTAGE UNBALANCE =

$$\frac{100 \times \text{maximum deg. from average volts}}{\text{Average Volts}}$$

NET OIL PRESSURE = Gross Oil Pressure - Suction Pressure

$$\text{COMPRESSION RATIO} = \frac{\text{Discharge Pressure Absolute}}{\text{Suction Pressure Absolute}}$$

HEAT PUMP AUXILIARY HEAT - sized at 100% of load

ARI HEAT PUMP RATING POINTS (SEER Ratings) 47° 17°

NON-BLEND REFRIGERANTS:

Constant Pressure = Constant Temperature during
Saturated Condition

BLEND - Rising Temperature during Saturated Condition

Hvac Equations Cheat Sheet

David Baud

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Hvac Equations Cheat Sheet:

Reviewing **Hvac Equations Cheat Sheet**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Hvac Equations Cheat Sheet**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://staging.conocer.cide.edu/book/publication/default.aspx/Journals%20Of%20The%20Expedition%20vol.pdf>

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