

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 Formula Cheat Sheet

Max Main



Hvac Formula Cheat Sheet:

HVAC Formulas and Equations Builder's Book Inc.,2007-04-16 **CISSP Exam Cram** Michael Gregg,2016-08-09

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Common HVAC Formulas Charles Nehme,2024-03-04 Welcome to the world of HVAC formulas Whether you re a seasoned professional or just starting out understanding the fundamental formulas is crucial for navigating the complexities of heating ventilation and air conditioning systems This book aims to be your comprehensive guide providing clear explanations practical applications and valuable resources to help you excel in the field Why are formulas important in HVAC Formulas are the language of HVAC They enable you to Design and size equipment Accurately calculate the capacity and performance requirements of heating and cooling systems for various spaces Troubleshoot problems Analyze system performance and diagnose issues by comparing calculated values with actual measurements Optimize efficiency Ensure your system operates at its peak efficiency minimizing energy consumption and costs Maintain comfort Design and operate systems that deliver the desired temperature and humidity levels contributing to a comfortable and healthy indoor environment This book is not just a collection of formulas It delves into the underlying principles behind them aiding comprehension and application in real world situations You ll find Clear explanations Each formula is presented with a breakdown of its components simplifying understanding even for those unfamiliar with the technical jargon Step by step examples Practical examples guide you through the application of formulas allowing you to build confidence and problem solving skills Real world scenarios The book incorporates scenarios you might encounter in the field showcasing how formulas are used to solve practical problems Essential resources A comprehensive list of resources at the end provides

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resource for professionals dealing with electricity controls refrigeration cycle heating psychometrics boilers heat pumps heat transfer load calculations and more Covers the entire industry providing the most comprehensive collection of HVAC R terms available in one concise location For those just starting in and seasoned veterans of the HVAC R industry The 71 pages of appendices include common industry association abbreviations business computer and medical terminology area of circles color codes for resistors CFM tables decibel ratings hazardous time exposure of common noises duct sizing conversion charts and much much more

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