

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

**Ali Vedavarz, Sunil Kumar, Muhammed
Iqbal Hussain, Calculated Industries**

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Table of Contents Hvac Equations Cheat Sheet

1. Understanding the eBook Hvac Equations Cheat Sheet
 - The Rise of Digital Reading Hvac Equations Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Hvac Equations Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hvac Equations Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hvac Equations Cheat Sheet
 - Personalized Recommendations
 - Hvac Equations Cheat Sheet User Reviews and Ratings

- Hvac Equations Cheat Sheet and Bestseller Lists
- 5. Accessing Hvac Equations Cheat Sheet Free and Paid eBooks
 - Hvac Equations Cheat Sheet Public Domain eBooks
 - Hvac Equations Cheat Sheet eBook Subscription Services
 - Hvac Equations Cheat Sheet Budget-Friendly Options
- 6. Navigating Hvac Equations Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Hvac Equations Cheat Sheet Compatibility with Devices
 - Hvac Equations Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hvac Equations Cheat Sheet
 - Highlighting and Note-Taking Hvac Equations Cheat Sheet
 - Interactive Elements Hvac Equations Cheat Sheet
- 8. Staying Engaged with Hvac Equations Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hvac Equations Cheat Sheet
- 9. Balancing eBooks and Physical Books Hvac Equations Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hvac Equations Cheat Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hvac Equations Cheat Sheet
 - Setting Reading Goals Hvac Equations Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hvac Equations Cheat Sheet
 - Fact-Checking eBook Content of Hvac Equations Cheat Sheet
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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