

IMPORTANT FORMULAS FOR HVAC ENGINEERS

SENSIBLE COOLING LOAD

$$Q_s \text{ (Kw)} = 1.2 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta T \text{ (}^\circ\text{C)}$$

$$Q_s \text{ (Btu/hr)} = 1.075 \times \dot{m}_{air} \text{ (cfm)} \times \Delta T \text{ (}^\circ\text{F)}$$

LATENT COOLING LOAD

$$Q_l \text{ (Kw)} = 2963.6 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta x \text{ (Kg/Kg)}$$

$$Q_l \text{ (Btu/hr)} = 4770 \times \dot{m}_{air} \text{ (cfm)} \times \Delta x \text{ (lb/lb)}$$

TOTAL COOLING LOAD

$$Q_t \text{ (Kw)} = 1.2 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta H \text{ (Kj/Kg)}$$

$$Q_t \text{ (Btu/hr)} = 4.5 \times \dot{m}_{air} \text{ (cfm)} \times \Delta H \text{ (Btu/lb)}$$

$$Q_t = Q_s + Q_l$$

SENSIBLE HEAT LOAD OF WALLS

$$Q_w \text{ (W)} = A \text{ (m}^2\text{)} \times U \text{ (W/m}^2\text{.}^\circ\text{K)} \times \Delta T \text{ (}^\circ\text{C)}$$

$$Q_w \text{ (Btu/hr)} = A \text{ (ft}^2\text{)} \times U \text{ (Btu/hr.ft}^2\text{.}^\circ\text{F)} \times \Delta T \text{ (}^\circ\text{F)}$$

CHILLED WATER FLOW

$$\dot{m}_w \text{ (L/s)} = \frac{Q_t \text{ (Kw)}}{4.1855 \times \Delta T \text{ (}^\circ\text{C)}}$$

$$\dot{m}_w \text{ (GPM)} = \frac{Q_t \text{ (Ton)} \times 24}{\Delta T \text{ (}^\circ\text{F)}}$$

For $\Delta T = 16 \text{ }^\circ\text{F} = 9 \text{ }^\circ\text{C}$

$$\dot{m}_w \text{ (GPM)} = Q_t \text{ (Ton)} \times 1.5$$

For $\Delta T = 10 \text{ }^\circ\text{F} = 5.5 \text{ }^\circ\text{C}$

$$\dot{m}_w \text{ (GPM)} = Q_t \text{ (Ton)} \times 2.4$$

EXHAUST AIR FLOW

$$\dot{m}_{air} \text{ (L/s)} = \frac{V \text{ (m}^3\text{)} \times \text{ACH} \text{ (/hr)}}{3.6}$$

$$\dot{m}_{air} \text{ (cfm)} = \frac{V \text{ (ft}^3\text{)} \times \text{ACH} \text{ (/hr)}}{60}$$

DUCT SIZING

$$Q \text{ (m}^3\text{/s)} = A \text{ (m}^2\text{)} \times v \text{ (m/s)}$$

$$Q \text{ (cfm)} = A \text{ (ft}^2\text{)} \times v \text{ (fpm)}$$

Rectangular area : $A = W \times H$

Circular area : $A = 3.14 \times R^2$

LOUVERS SIZING

$$Q \text{ (m}^3\text{/s)} = \text{F.A.} \times A \text{ (m}^2\text{)} \times v \text{ (m/s)}$$

$$Q \text{ (cfm)} = \text{F.A.} \times A \text{ (ft}^2\text{)} \times v \text{ (fpm)}$$

Recommended v_{max} for sand trap louvers : $v_{max} = 1 \text{ m/s}$ or 200 fpm

Recommended v_{max} for exhaust louvers : $v_{max} = 2.5 \text{ m/s}$ or 500 fpm

Legend: Q_s =Sensible cooling load ; Q_l =Latent cooling load ; Q_t =Total cooling load ; \dot{m} =Volumetric flow ; ΔT =Temperature difference ; Δx =Humidity difference ; ΔH =Enthalpy difference ; A =Area ; U =Thermal transmittance ; v =Velocity ; W =Width ; H =Height ; R =Radius ; F.A. =Free area rate ; Q =Air volumetric flow ; V =Volume ; ACH =Air change per hour

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Lauren Gardner



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Table of Contents Formulas For Hvac Study Guide

1. Understanding the eBook Formulas For Hvac Study Guide
 - The Rise of Digital Reading Formulas For Hvac Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulas For Hvac Study Guide
 - 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 Formulas For Hvac Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulas For Hvac Study Guide

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

- Fact-Checking eBook Content of Formulas For Hvac Study Guide
 - 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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