



Air Handling System

Components/Layout:

- A: Dampers
- B: Filters
- C: Cooling Coil
- D: Heating Coil
- E: Humidifier
- F: Supply Fan
- G: Diffusers
- H: Return Fan



Air Flow:

Air enters the system from the outside through an air duct and is mixed just before the filters with return air from the space. The mixed air is pulled through a set of filters (B) where impurities like particulates and gaseous pollutants are removed. As the air moves forward, it passes over a set of cooling coils (C), where the air is cooled and depending on the dew point of the passing air, may be dehumidified. The air then passes over a set of heating coils (D) where it is heated to the required temperature if necessary. Following the heating coil the air will pass over a set of humidification tubes (E). If the relative humidity of the passing air is too low these tubes will add moisture to the air as it passes. After the humidifier, the air is pulled into the supply fan (F), which then pushes it through the supply ductwork, through the diffusers (G) and into the space. The return fan (H) pulls air from the space and pulls it through the return ductwork. Finally, the air is either exhausted to the outside or returned to the unit to be mixed with new outside air and start the cycle all over again.

Refrigerant/Heating Supply:

The cooling coils are fed from a source of cooling, such as chillers, a cooling tower, or DX unit. The refrigerant enters the cooling coils, absorbs heat from the air passing the coils, and returns to its source to desorb the heat that it took in. The heating coils are fed from a heat source such as a boiler or electricity. The heat from these coils is transferred to the air passing over it.

Hvac Basic Study Guide

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Table of Contents Hvac Basic Study Guide

1. Understanding the eBook Hvac Basic Study Guide
 - The Rise of Digital Reading Hvac Basic Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Hvac Basic 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 Hvac Basic Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hvac Basic Study Guide
 - Personalized Recommendations
 - Hvac Basic Study Guide User Reviews and Ratings
 - Hvac Basic Study Guide and Bestseller Lists
5. Accessing Hvac Basic Study Guide Free and Paid eBooks
 - Hvac Basic Study Guide Public Domain eBooks
 - Hvac Basic Study Guide eBook Subscription Services
 - Hvac Basic Study Guide Budget-Friendly Options

6. Navigating Hvac Basic Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Hvac Basic Study Guide Compatibility with Devices
 - Hvac Basic Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hvac Basic Study Guide
 - Highlighting and Note-Taking Hvac Basic Study Guide
 - Interactive Elements Hvac Basic Study Guide
8. Staying Engaged with Hvac Basic Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hvac Basic Study Guide
9. Balancing eBooks and Physical Books Hvac Basic Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hvac Basic Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hvac Basic Study Guide
 - Setting Reading Goals Hvac Basic Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hvac Basic Study Guide
 - Fact-Checking eBook Content of Hvac Basic 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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