



## 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 Troubleshooting Study Guide

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### **Table of Contents Hvac Troubleshooting Study Guide**

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

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