



HVAC SYSTEM MANUAL

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3 of 27

01.00 *Introduction to HVAC*

Heating Ventilation and Air Conditioning [HVAC], as the name suggest is a vast concept and that part of science dealing with the state of medium or matter which is disturbed by means of external aid to change the physical properties of matter like temperature, pressure, flow velocity, humidity and specific volume.

Heating – is a concept of raising the temperature of the matter to the desired limits with or without change in its pressure and volume.

Ventilation – is a system of revival of conditions of air in a confined space for human comfort or process requirements.

Air conditioning and refrigeration – is a system of cooling of air, dehumidification of air, humidification of air, cooling of other matter for process requirements.

01.01 *Ventilation*

A ventilation system, generally would mean intake or distribution of air either by dilution methods or exhaust methods to meet the following objectives –

(a) To provide oxygen: The oxygen concentration is 21 % by volume in atmospheric air. It should not be allowed to fall below 15% under any circumstances whatsoever. The metabolic oxygen requirement of individuals varies between 0.03 m³/hr for very light work to 0.15 m³/hr for very heavy work.

(b) To remove carbon dioxide: The CO₂ concentration in atmospheric air is 0.03% by volume. It should not be allowed to rise above 5% under any circumstance. For CO₂ dilution, a minimum fresh air flow of 0.2 cmm per adult is recommended. In spaces of heavy activity and smoking, 0.7 to 1.1 cmm per person is required. 0.42 cmm of fresh air per person is used as a design standard.

(c) To remove odours: Normally, 0.42 cmm of fresh air per person is required to remove body odours. The actual air requirement depends on room size and level of activity.

(d) To remove heat and humidity: Removal of body heat and moisture addition by ventilation is the controlling factor. If this is accomplished, all other requirements will be met. For adults, the body heat generation is taken as 116 Watts per person.

(e) To dilute toxicity: This is required when toxic and hazardous fumes/particles are being generated in the space. A very detailed study is required for such purpose. However, the dilution ventilation is not very effective. In such cases, an outright removal by exhaust ventilation is recommended.

A dilution ventilation system partially or wholly recycles the same air with a known quantity of fresh air, generally at 1 Air changes per hour.

An exhaust ventilation or Once Thru ventilation draws fresh air and exhausts the air in the room in suitable means of outlet air conditioners.

** "cmm": cubic meter per minute: a unit of air displacement.

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Manual of Electrical Undertakings ,1927 **Manual of Electrical Undertakings and Directory of Officials** ,1920
Powers' Central Station Directory and Buyers' Manual ,1900 Electric Power Distribution Handbook Thomas Allen
Short,2003-09-15 Of the big three components of the electricity infrastructure distribution typically gets the least attention and no thorough up to date treatment of the subject has been published in years Filling that void the Electric Power Distribution Handbook provides comprehensive information on the electrical aspects of power distribution systems It is an unparalleled source for the background information hard to find tables graphs methods and statistics that power engineers need and includes tips and solutions for problem solving and improving performance In short this handbook gives readers the tools they need to understand the science and practices of distribution systems **Federal Register** ,2002-07 *Western Machinery and Steel World* ,1919 **Technical Report** ,1960 **Rapid Method for Determining Lime, Magnesia, and Titania in Blast-furnace Slags and Other Calcareous Materials** Frank E. Block,James Wilson Eckerd,Willard L. Hunter,Abner D. Hahn,Byron E. Blair,Edward Gerard King,Jack D. Ramsdell,John B. Gayle,Mortin Min Wong,Oliver C. Fursman,Philip C. Good,Ralph V. Higgins,Russel Reed Trengove,T. E. Gray,Welton J. Wenger,Alan J. Leighton,Annie G. Smelley,Bruce W. Naugle,Bruce W. Reid,David H. Yee,Eugene Robert Palowitch,Francis R. Cattoir,G. V. Sullivan,Lloyd Harold Banning,M. M. Fine,W. W. Weller,William S. Sanner,A. F. Baker,D. H. Baker,1960 *Electrical Manufacturing* ,1929
The Iron Age ,1906 **Report of Investigations** ,1960 Metal Trades ,1919 The Wood-worker ,1917 **The Iron Age** ,1906 Mining and Engineering World ,1914 **Coal Mining** ,1937 Blast Furnace and Steel Plant ,1924
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Table of Contents Westinghouse Hvac Manual

1. Understanding the eBook Westinghouse Hvac Manual
 - The Rise of Digital Reading Westinghouse Hvac Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Westinghouse Hvac Manual
 - 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 Westinghouse Hvac Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Westinghouse Hvac Manual
 - Personalized Recommendations
 - Westinghouse Hvac Manual User Reviews and Ratings
 - Westinghouse Hvac Manual and Bestseller Lists
5. Accessing Westinghouse Hvac Manual Free and Paid eBooks

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