

CHAPTER 14

INDUSTRIAL AIR CONDITIONING

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**T**HIS chapter addresses air-conditioning systems for industrial facilities such as manufacturing plants, laboratories, processing plants, and power plants. HVAC systems provide the process environment (including temperature, humidity, air motion, air quality, noise, and cleanliness) to facilitate industrial processes and provide for the health, safety, and comfort of personnel.

Many industrial buildings require large amounts of energy, in both manufacturing and maintaining building environmental conditions. This chapter provides system and building design guidance for energy conservation by using insulation, ventilation, and waste heat recovery.

**1. GENERAL REQUIREMENTS**

Typical temperatures, relative humidities, and specific filtration requirements for storage, manufacture, and processing of various commodities are listed in **Table 1**. Requirements for a specific application may differ from those in the table.

Industrial processes or regulatory requirements may change over time; thus, systems should be able to provide for future requirements to the extent this is practical.

Outdoor design requirements and indoor temperature, humidity, cleanliness, noise, and allowable variations should be established by agreement with the owner. A compromise between requirements for product or process conditions and those for comfort may optimize quality and production costs.

An environment that allows a worker to safely perform assigned duties without fatigue from the effects of temperature and humidity may enhance performance.

**Special Warning:** Some industrial spaces may contain flammable, combustible, and/or toxic concentrations of vapors or dusts under either normal or abnormal conditions. In spaces such as these, there are safety issues that this chapter may not completely address. Special precautions must be taken in accordance with requirements of recognized authorities such as the National Fire Protection Association (NFPA), the Occupational Safety and Health Administration (OSHA), and the American National Standards Institute (ANSI). In all situations, engineers, designers, and installers who encounter conflicting codes and standards must defer to the code or standard that best addresses personnel safety.

**2. PROCESS AND PRODUCT REQUIREMENTS**

An industrial product or process may require control of the indoor environment if it affects one or more of the following factors.

The preparation of this chapter is assigned to TC 9.2, Industrial Air Conditioning.

**Rate of Chemical Reaction**

Some processes require temperature and humidity control to regulate chemical reactions. In rayon manufacturing, for example, pulp sheets are conditioned, cut to size, and mercerized. The temperature directly controls the rate of reaction, and the relative humidity maintains the solution at a constant strength and rate of evaporation.

In drying varnish, oxidizing depends on temperature. Desirable temperatures vary with the type of varnish. High relative humidity retards surface oxidation and allows internal gases to escape as chemical oxidizers cure the varnish from within. Thus, a bubble-free surface is maintained with a homogeneous film throughout.

**Rate of Crystallization**

The cooling rate determines the size of crystals formed from a saturated solution. Both temperature and relative humidity affect the cooling rate and change the solution density by evaporation.

In coating pans for pills, a heavy sugar solution is added to the tumbling mass. As water evaporates, sugar crystals cover each pill. Moving the correct quantity of air over the pills at the correct temperature and relative humidity forms a smooth, opaque coating. If cooling and drying are too slow, the coating will be rough, translucent, and have an unsatisfactory appearance. If the cooling and drying are too fast, the coating will chip through to the interior.

**Rate of Biochemical Reaction**

Fermentation requires both temperature and humidity control to regulate the rate of biochemical reactions. Many fermentation vessels are jacketed to maintain consistent internal temperatures. Fermentors are held at different temperatures, depending on the process involved. In brewing, typical fermentor temperatures range from 45 to 52°F. Because of vessel jacketing, tight control of room temperature may not be required. Usually, space temperatures should be held as close as practical to the process temperature inside the fermentation vessel.

Designing such spaces should take into account gases and other by-products generated by fermentation. Typically, carbon dioxide is the most prevalent by-product of fermentation in brewing and presents the greatest potential hazard if a fermentor overpressurizes the seal. Provide adequate ventilation in case carbon dioxide escapes the process.

In biopharmaceutical processes, hazardous organisms can escape a fermentor; design of spaces using these fermentors should allow containment. Heat gains from steam-sparged vessels should also be accounted for in such spaces.

**Product Accuracy and Uniformity**

Air temperature and cleanliness affect quality in manufacturing precision instruments, lenses, and tools. When manufacturing tolerances are within 0.0002 in., close temperature control (typically

# Ashrae Handbook Chapter 49

**William H. Mashburn**



## **Ashrae Handbook Chapter 49:**

**ASHRAE Handbook**, 1999 *Air Conditioning and Ventilation: Fundamental to Practical* Nopparat

Katkhaw, 2025-10-12 This book was written based on over 20 years of real world engineering and teaching experience It is carefully compiled from ASHRAE Handbooks SMACNA Standards and CARRIER reference documents along with other professional resources in the HVAC field The content is organized into two main units each supported with numerous comprehensive examples covering both SI and I P units to suit international practice Designed for students engineers and anyone interested in HVAC system design this book has been proven by more than 5 000 copies sold in print reflecting its practicality and reliability in both classroom and field applications CHAPTER 1 Psychrometrics and Thermal Comfort

**ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning

Engineers, 1979 *NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings* Eugene Zeller, 2000-06

This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before Illustrated **The Architecture of Sound** Rob Bullen, 2025-03-20 This book highlights the

range of issues involved in designing interior spaces for acoustics that is ensuring that the sound of a space matches its function The book presents the principles of acoustic design together with practical advice on how to apply those principles The fundamental elements of background sound intruding sound sound quality and speech intelligibility are each described with design goals calculation procedures and advice on implementation Contemporary challenges associated with integrating acoustics and sustainable building design are also covered Finally two types of space school classrooms and hospital wards are considered in detail as examples **Mechanical and Electrical Equipment for Buildings** Walter T. Grondzik, Alison

G. Kwok, 2019-10-08 The definitive guide to the design of environmental control systems for buildings now updated in its 13th Edition Mechanical and Electrical Equipment for Buildings is the most widely used text on the design of environmental control systems for buildings helping students of architecture architectural engineering and construction understand what they need to know about building systems and controlling a building s environment With over 2 200 drawings and photographs this 13th Edition covers basic theory preliminary building design guidelines and detailed design procedure for buildings of all sizes It also provides information on the latest technologies emerging design trends and updated codes Presented in nine parts Mechanical and Electrical Equipment for Buildings Thirteenth Edition offers readers comprehensive coverage of environmental resources air quality thermal visual and acoustic comfort passive heating and cooling water

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**90.1 User's Manual** American Society of Heating, Refrigerating and Air-Conditioning Engineers,2004 This User s Manual provides detailed instruction for the design of commercial and high rise residential buildings to ensure their compliance with ANSI ASHRAE IESNA Standard 90 1 2004 In addition this Manual encourages the user to apply the principles of effective energy conserving design when designing buildings and building systems offers information on the intent and application of Standard 90 1 illuminates the Standard through the use of abundant sample calculations and examples streamlines the process of showing compliance provides Standard forms to demonstrate compliance provides useful reference material to assist designers in efficiently completing a successful and complying design This Manual also instructs the user in the application of several tools used for compliance with Standard 90 1 the EnvStd computer program used in conjunction with the Building Envelope Trade Off compliance method the selection and application of energy simulation programs used in conjunction with the energy cost budget method of compliance This Manual is intended to be useful to numerous types of building professionals including architects and engineers who must apply the Standard to the design of their buildings plan examiners and field inspectors who must enforce the Standard in areas where it is adopted as code general and specialty contractors who must construct buildings in compliance with the standard product manufacturers state and local energy offices policy groups utilities and others [1995 ASHRAE Handbook](#)

American Society of Heating, Refrigerating and Air-Conditioning Engineers,1995

**Radiant Heating and Cooling Handbook** Richard Watson,Kirby Chapman,2002-01-29 Design radiant heating and cooling systems with help from top experts The first and only professional guide of its kind Radiant Heating and Cooling Handbook is packed with tools that make the work of HVAC systems designers engineers and technicians go more smoothly and easily Relating heating and cooling theory to the principles of thermal comfort this expert handbook by pros Richard Watson and Kirby Chapman provides all the help you need to select design size and position the most popular and efficient systems for industrial commercial and residential applications You get Case studies that clarify application and installation of every system type

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Examples and sample calculations to solve real world radiant heating and cooling problems in building contracting and engineering  
Equations strategies and analyses to help you set parameters from sizing and cost to human comfortability

National Fire Codes National Fire Protection Association,1998     *Heating, Ventilating, and Air-conditioning Systems and Equipment* American Society of Heating, Refrigerating and Air-Conditioning Engineers,1992     *2005 Building Energy Efficiency Standards Nonresidential Compliance Manual* ,2005     *2008 Building Energy Efficiency Standards* California Energy Commission,2009     *Handbook of Applied Thermal Design* Eric C. Guyer,1989 Problems in thermal design are encountered in a vast array of fields from manufacturing equipment to energy systems and consumer products to scientific apparatuses The tools to achieve the solutions to these problems lie within this handbook Written for the non specialist this comprehensive resource addresses the use and control of thermal phenomena in both products and processes With contributions from leading experts in the field this book gives a foundation to the four principal facets of thermal design heat transfer analysis materials performance heating and cooling technology and instrumentation and control The focus is on providing practical thermal design and development guidance across the spectrum of problem analysis material applications equipment specification and sensor and control selection Professional in thermal design heat transfer and mechanical engineering will find this handbook invaluable

**ASHRAE Handbook, 1981 Fundamentals** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1981     2010 California Energy Code International Code Council,2010-05-15 This document is the 6th of 12 parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to California Code of Regulations Title 24 also referred to as the California Building Standards Code This part is known as the California Energy Code Preface

**Energy Technology XI** Richard F. Hill,1984  
Conference Proceedings T. Nejat Veziroğlu,1974     **Managing Energy Resources in Times of Dynamic Change** William H. Mashburn,1992 Whether your facility is large or small industrial or commercial institutional or governmental you ll find easy to implement solutions to your toughest energy management challenges in this fully updated reference The guidelines presented are based on actual experience of today s most successful energy managers You ll discover scores of practical methods for launching these cost cutting procedures in your own operations Tested and complete the guide s solutions are designed to help energy managers at every point during their planning tasks from starting up new programs to completely overhauling existing systems to patching up costly trouble spots along the way The second edition has been expanded to include the reviving of programs that for one reason or another have become inactive The text is packed with handy charts tables graphs and fully worked out examples to speed and simplify your workday tasks

**2005 California Energy Code** California Building Standards Commission,2005

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