



**ANSI/ASHRAE/IES Standard 90.1-2010**  
**(Supersedes ANSI/ASHRAE/IESNA Standard 90.1-2007)**  
Includes ANSI/ASHRAE/IESNA Addenda listed in Appendix F

# ASHRAE STANDARD

## Energy Standard for Buildings Except Low-Rise Residential Buildings

**I-P Edition**

See Appendix F for approval dates by the ASHRAE Standards Committee, the ASHRAE Board of Directors, the IES Board of Directors, and the American National Standards Institute.

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# **Ashrae Cooling And Heating Load Calculation Manual**

**Richard D. Watson, Kirby S. Chapman**



# Ashrae Cooling And Heating Load Calculation Manual

*Cooling and Heating Load Calculation Manual*, 1980 *Cooling and Heating Load Calculation Manual* Faye C. McQuiston, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Jeffrey D. Spitler, 1992 Provide a comprehensive source of theory procedures and data for cooling and heating load calculations for other than residential buildings **Load Calculation Applications Manual (I-P Edition)** Jeffrey D. Spitler, 2014-10-01 This manual focuses on the calculation of cooling and heating loads for commercial buildings The heat balance method HBM and radiant time series method RTSM as well as how to implement these methods are discussed Heat transfer processes and their analysis psychrometrics and heating load calculations are also considered **Cooling and Heating Load Calculation Manual** American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979 *Cooling and Heating Load Calculation Manual* Faye C. McQuiston, 1994 Load Calculation Applications Manual Jeffrey D. Spitler, 2010-01-01 Focuses on the radiant time series and heat balance methods for calculating cooling loads in nonresidential buildings The intended audience is relatively new engineers who are learning to do load calculations as well as experienced engineers who wish to learn the radiant time series method Provided by publisher *Heating and Cooling Load Calculations* P. G. Down, 2014-05-17 Heating and Cooling Load Calculations is a handbook that covers various concerns in calculating heating and cooling The title provides a logical study of the physical and engineering factors that affect the heating and cooling load The coverage of the text includes heat transfer heating loads and its reduction and design temperature conditions The text also covers the cooling design conditions and the components of cooling load and its reduction The book will be of great use to both student and professional engineers *Cooling and Heating Load Calculation Manual*, 1980 **HVAC Cooling Load - Calculations and Principles** A. Bhatia, 2014-10-16 Heating and cooling load calculations are carried out to estimate the required capacity of heating and cooling systems which can maintain the required conditions in the conditioned space To estimate the required cooling or heating capacities one has to have information regarding the design indoor and outdoor conditions specifications of the building specifications of the conditioned space such as the occupancy activity level various appliances and equipment used etc and any special requirements of the particular application For comfort applications the required indoor conditions are fixed by the criterion of thermal comfort while for industrial or commercial applications the required indoor conditions are fixed by the particular processes being performed or the products being stored Generally heating and cooling load calculations involve a systematic and stepwise procedure which account for all the building energy flows In practice a variety of methods ranging from simple rules of thumb to complex transfer function methods are used to arrive at the building loads This short quick book provides a procedure for preparing a manual calculation for cooling load using CLTD CLF method suggested by ASHRAE and includes two detailed examples For

more advanced methods such as TFM the reader should refer to ASHRAE and other handbooks Learning Objective At the end of this course the student should be able to

- 1 Understand the basic terminology and definitions related to air conditioning load calculations
- 2 Explain the differences between heating and cooling load design considerations
- 3 Explain the difference between 1 space heat gain v s cooling load 2 space cooling v s cooling load and 3 external loads v s internal loads
- 4 Differentiate between sensible and latent loads
- 5 List commonly used methods for estimating cooling loads
- 6 Estimate the internal and external cooling loads using CLTD CLF method from building specifications design indoor and outdoor conditions occupancy etc
- 7 Describe various equations and the information sources to determine conductive load through opaque building elements
- 8 Describe various equations and information sources to determine the solar transmission load through glazing
- 9 Describe various equations and information sources to determine the internal load due to people lights and power appliances
- 10 Determine the supply air flow rate
- 11 Learn by examples the detailed methodology to cooling load calculations
- 12 Learn the functional parameters of software programs such as TRACE 700 and CHVAC

**1997 ASHRAE Handbook** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1997 **Fundamentals of Heating and Cooling Loads**, 2002-06-01 Covers heat transfer as it applies to buildings and the various factors that must be considered when calculating the heating and cooling loads of a building Topics include how to use a simple heat loss calculation procedure how to find and use local climate data thermal properties of building materials effects of air infiltration and ventilation basic concepts and methods to determine cooling loads effects of windows walls roofs and partitions on loads basic types of internal loads how to use the CLTD Method and how to use the Transfer Function Method

**Air-conditioning System Design Manual** Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings **Handbook of Air Conditioning and Refrigeration** Shan K. Wang, 2000-11-07 A broad range of disciplines energy conservation and air quality issues construction and design and the manufacture of temperature sensitive products and materials is covered in this comprehensive handbook Provide essential up to date HVAC data codes standards and guidelines all conveniently located in one volume A definitive reference source on the design selection and operation of A C and refrigeration systems

*Heating and Cooling of Buildings* Jan F. Kreider, Peter S. Curtiss, Ari Rabl, 2009-12-28 The art and the science of building

systems design evolve continuously as designers practitioners and researchers all endeavor to improve the performance of buildings and the comfort and productivity of their occupants Retaining coverage from the original second edition while updating the information in electronic form Heating and Cooling of Buildings Design for Efficiency Revised Second Edition presents the technical basis for designing the lighting and mechanical systems of buildings Along with numerous homework problems the revised second edition offers a full chapter on economic analysis and optimization new heating and cooling load procedures and databases and simplified procedures for ground coupled heat transfer calculations The accompanying CD ROM contains an updated version of the Heating and Cooling of Buildings HCB software program as well as electronic appendices that include over 1 000 tables in HTML format that can be searched by major categories a table list or an index of topics Ancillary information is available on the book s website [www.hcbcentral.com](http://www.hcbcentral.com) From materials to computers this edition explores the latest technologies exerting a profound effect on the design and operation of buildings Emphasizing design optimization and critical thinking the book continues to be the ultimate resource for understanding energy use in buildings

**HVAC Simplified** Stephen P. Kavanaugh,2006 HVAC Simplified zip file This text provides an understanding of fundamental HVAC concepts and how to extend these principles to the explanation of simple design tools used to create building systems that are efficient and provide comfortable and healthy environments The text contains twelve chapters that review the fundamentals of refrigeration heat transfer and psychrometrics Information from the ASHRAE Handbook Fundamentals is summarized and supplemented with items from industry sources The remaining chapters assemble information from ASHRAE Handbooks ASHRAE standards and manufacturer data present design procedures commonly used by professional engineers Other topics include equipment selection and specification comfort and IAQ building assemblies heating and cooling loads air distribution system design water distribution system design electrical and control systems design for energy efficiency and design for economic value A suite of complementary spreadsheet programs that incorporate design and computation procedures from the text are provided on the CD that accompanies this book These programs include psychrometric analysis equipment selection heating and cooling load calculation an electronic ductulator piping system design a ductwork cost calculator and programs to evaluate building system demand and energy efficiency Future updates to these programs can be found at [www.ashrae.org](http://www.ashrae.org) updates The downloadable version of this product comes as a zip file and includes a PDF of the User s Manual and all the supporting files located on the CD that accompanies the print version You must have WinZip to open the download

**HVAC** Arthur A. Bell,2000 The ultimate reference book on the most frequently used HVAC data chock full of equations data and rules of thumb a necessary addition to any library for mechanical architectural and electrical engineers HVAC contractors and technicians and others Features over 216 equations for everything from air change rates to swimming pools to steel pipes Includes both ASME and ASHRAE code information and follows the CSI MasterFormat TM

**ASHRAE Handbook Refrigeration 2014** Ashrae,2014-01-01 The 2014 ASHRAE

Handbook Refrigeration covers the refrigeration equipment and systems for applications other than human comfort This volume includes data and guidance on cooling freezing and storing food industrial and medical applications of refrigeration and low temperature refrigeration The 2014 ASHRAE Handbook Refrigeration CD in both I P and SI editions contains PDFs of chapters easily viewable using Adobe Reader This product must be installed on user s computer Product cannot be read directly from CD and is not compatible with mobile devices Opened software cannot be returned for refund or credit

**Radiant Heating and Cooling Handbook** Richard D. Watson, Kirby S. Chapman, 2002 Packed with tools to make the work of HVAC systems designers engineers and technicians go smoothly this text will help you select design size and position popular and efficient systems for industrial commercial and residential applications [Heat Transfer Calculations](#) Myer Kutz, 2005-09-15 Packed with laws formulas calculations solutions enhancement techniques and rules of thumb this practical manual offers fast accurate solutions to the heat transfer problems mechanical engineers face everyday Audience includes Power Chemical and HVAC Engineers Step by step procedures for solving specific problems such as heat exchanger design and air conditioning systems heat load Tabular information for thermal properties of fluids gaseous and solids **2007 ASHRAE Handbook** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2007 The 2007 ASHRAE Handbook HVAC Applications covers a broad range of facilities and topics and is written to help engineers design and use equipment and systems described in other Handbook volumes ASHRAE Technical Committees have revised nearly every chapter for current requirements and techniques It is divided into five sections Comfort Applications Industrial Applications Energy Related Applications Building Operations and Management and General Applications This book provides background information to designers new to a given application as well as those needing a refresher on the topic An accompanying CD ROM free with the book also sold separately contains all the volume s chapters in both I P and SI units

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