

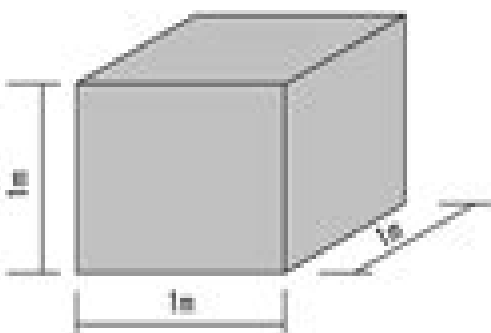
Basic heat load calculation for air-conditioning system

(3) How to calculate heat load

“Heat transfer load (2)”

Calculation example

Let’s determine the heat transfer load of a cubic building surrounded by walls as shown in the drawing.



Coefficient of overall heat transfer : U-factor

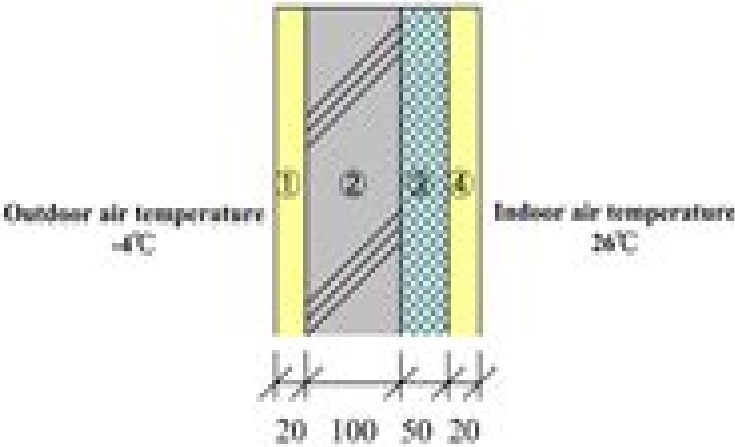
$$U = \frac{1}{\frac{1}{23} + \frac{0.02}{1.5} + \frac{0.1}{1.4} + \frac{0.05}{0.042} + \frac{0.02}{1.5} + \frac{1}{9}}$$
$$= 0.69 \quad \left[W / m^2 \cdot K\right]$$

Wall surface area : A

$$A = (1 \times 1) \times 6 = 6 \quad \left[m^2\right]$$

Heat transfer load : q_k

$$q_k = 0.69 \times 6m^2 \times \{26^{\circ}C - (-4)^{\circ}C\} = 124 \quad [W]$$



Wall materials

Material	Thickness (mm)	λ (W / m · K)
①. Mortar	20	1.5
②. Concrete	100	1.4
③. Glass wool 24K	50	0.042
④. Mortar	20	1.5

The heat transfer load can be reduced with the use of a material having a low thermal conductivity or thicker member.

Manual Heat Load Calculation For Air Conditioning

S Ben Porath



Manual Heat Load Calculation For Air Conditioning:

Cooling and Heating Load Calculation Manual, 1980 Cooling and Heating Load Calculation Manual American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979 **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

Manual J - Residential Load Calculation Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions *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 **Cooling and Heating Load Calculation Manual** Faye C. McQuiston, 1994 *Cooling and Heating Load Calculation Manual*, 1980 Load Calculation for Residential Winter and Summer Air Conditioning, 1986 Residential Load Calculation Hank Rutkowski, 2001-12-12 **Heating and Air Conditioning Tips for Homeowners** Lloyd Edwards, 2009-04-11 The purpose of this book is to simplify the different heating and air conditioning systems and their components by providing elementary text on the relationships and operation of indoor comfort equipment The author has taken the utmost care to present this subject in thorough yet simple nontechnical language Everyone regardless of his or her technical aptitude will be able to diagnose and repair some problems with their Heating and Air conditioning system This book offers troubleshooting procedures maintenance tips and details which can help to extend the life of your heating and air conditioning system It includes all technical terms with illustrations and definitions of heating and cooling systems from oil furnaces to heat pumps

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

Residential Load Calculation Hank Rutkowski, 1986 *Heating, Ventilating, and Air Conditioning* Faye C. McQuiston, Jerald D. Parker, Jeffrey D. Spitler, 2005 Based on the most recent standards from ASHRAE the Sixth Edition provides complete and up to date coverage of all aspects of heating ventilation and air conditioning You ll find the latest load calculation procedures indoor air quality procedures and issues related to ozone depletion

HVAC Principles and Applications Manual Thomas E. Mull, 1998 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The perfect on the job guide for beginning engineers HVAC Principles and Applications Manual offers professionals a clear introduction to HVAC that bypasses hard to understand theory and complex mathematics Based on methods approved by the American Society of Heating Refrigerating and Air Conditioning Engineers the book provides expert coverage of HVAC fundamentals as well as step by step design and application methods Filled with examples the manual is meant to simplify such tasks as calculating the heat loss rate of a building and choosing the right system controls This practical and concise manual is a must for HVAC designers and engineers engineers without HVAC experience technicians contractors and other engineering professionals

Building Technology Benjamin Stein, 1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist s profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet

project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist's profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more

Manual J National Environmental Systems Contractors Association, 1967

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

HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-10-14 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards Featuring an outline format for ease of use the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling heating ventilation and more New material including coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General

Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers
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snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of
January 2020 **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and
Air-Conditioning Engineers,1980

This book delves into Manual Heat Load Calculation For Air Conditioning. Manual Heat Load Calculation For Air Conditioning is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Manual Heat Load Calculation For Air Conditioning, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 2: Essential Elements of Manual Heat Load Calculation For Air Conditioning
 - Chapter 3: Manual Heat Load Calculation For Air Conditioning in Everyday Life
 - Chapter 4: Manual Heat Load Calculation For Air Conditioning in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, the author will examine the practical applications of Manual Heat Load Calculation For Air Conditioning in daily life. The third chapter will showcase real-world examples of how Manual Heat Load Calculation For Air Conditioning can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Manual Heat Load Calculation For Air Conditioning in specific contexts. This chapter will explore how Manual Heat Load Calculation For Air Conditioning is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Manual Heat Load Calculation For Air Conditioning. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Manual Heat Load Calculation For Air Conditioning.

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