

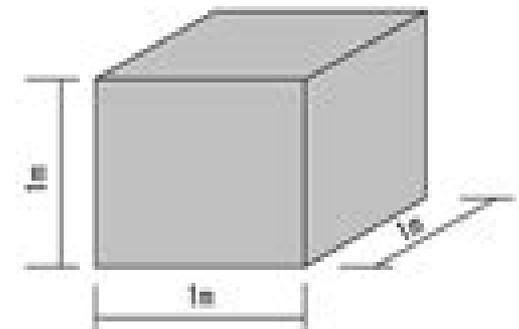
## Basic heat load calculation for air-conditioning system

### (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

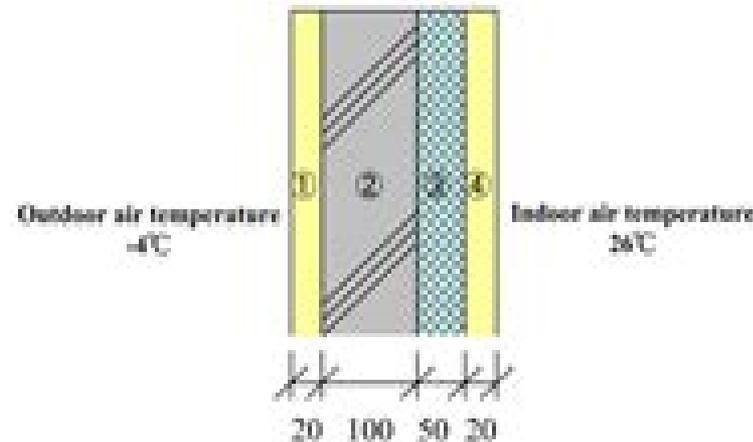
$$U = \frac{1}{\frac{1}{23} + \frac{0.02}{1.5} + \frac{0.1}{1.4} + \frac{0.05}{0.042} + \frac{0.02}{1.5} + \frac{1}{9}}$$
$$= 0.69 \quad [W / m^2 \cdot K]$$

#### Wall surface area : A

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

#### 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)	$\lambda$ (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.

# Cooling Load Calculation And Design Of Air Conditioning

**Faye C. McQuiston, American Society  
of Heating, Refrigerating and Air-  
Conditioning Engineers, Jeffrey D.  
Spitler**

## **Cooling Load Calculation And Design Of Air Conditioning:**

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

**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

**Fundamentals of Air Conditioning Systems** Billy C. Langley, 2000  
This text provides a guide to the specification and application of all types of commercial and residential air conditioning equipment It guides the reader through each step of the process of proper system design including equipment selection sizing placement and installation

*Heating, Ventilating, and Air Conditioning* Faye C. McQuiston, Jerald D. Parker, Jeffrey D. Spitler, 2004-08-06  
HEATING VENTILATING AND AIR CONDITIONING Completely revised with the latest HVAC design practices Based on the most recent standards from ASHRAE this 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 Throughout the text numerous worked examples clearly show you how to apply the concepts in realistic scenarios In addition several computer programs several new to this edition help you understand key concepts and allow you to simulate various scenarios such as psychometrics and air quality load calculations piping system design duct system design and cooling coil simulation Additionally the load calculation program has been revised and updated These computer programs are available at the book s website [www.wiley.com/college/mcquiston](http://www.wiley.com/college/mcquiston) Key Features of the Sixth Edition Additional new worked examples in the text and on the accompanying software Chapters 6 9 have been extensively revised for clarity and ease of use Chapter 8 The Cooling Load now includes two approaches the heat balance method as recommended by ASHRAE and the simpler RTS method Both approaches include computer applications to aid in calculations Provides complete authoritative treatment of all aspects of HVAC based on current ASHRAE standards Numerous worked examples and homework problems provide realistic scenarios to apply concepts

**Cooling and Heating Load Calculation Manual**, 1980 *Design of a centralized air conditioning*, 2020-07-07  
Academic Paper from the year 2020 in the subject Engineering Mechanical Engineering language English abstract The average summer temperatures experienced by most countries are increasing every year and consequently the energy needs to provide air conditioning is also increasing annually The HVAC industry has a challenging task of providing energy efficient technologies to satisfy this growing demand with a minimum impact on global warming and ozone depletion The chilled water types of central air conditioning plants are installed in the place where whole large buildings shopping mall airport hotel etc comprising of several floors are to be air conditioned The project consists of how the proposed centralizes air conditioning is designed and its criterion for a new buildings in Hyderabad It consists of 6 floors having an area of 4 000 sqft Per floor The main objective is to create a thermally controlled environment within the space of a building envelope such as kitchen room master bedroom dining room etc The tentative air conditioning load for the system shall be 290 TR approx Air cooled chillers with pumping system are proposed to make the system energy efficient The proposed air conditioning plant shall be located on the building terrace

**Cooling and Heating Load Calculation Manual**, 1980 [Handbook of Air Conditioning, Heating, and Ventilating](#) Eugene Stamper, Richard L. Koral, 1979 This comprehensive and acclaimed volume provides a wealth of practical

information on the design installation and operation of air conditioning heating and ventilating systems      **Cooling and Heating Load Calculation Manual** American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979      **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      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      Heating, Ventilating, Air Conditioning Guide , 1959      **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1964      *Air Conditioning, Heating and Ventilating* , 1959      *Principles of Heating, Ventilating, and Air Conditioning* Harry J. Sauer (Jr.), Ronald Hunter Howell, 1990      "Code of Massachusetts regulations, 2000" , 2000 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      Building Systems for Interior Designers Corky Binggeli, 2010 Written in a straightforward nontechnical style that maintains depth and accuracy this landmark reference is the first text on building systems for interior designers From heating and cooling systems water and waste electricity lighting interior transportation and communication systems all of the mechanical and electrical systems that interior designers need to know are covered in a clear and accessible way The technical knowledge and vocabulary presented here allow interior designers to communicate more effectively with architects engineers and contractors while collaborating on projects leading to more accurate solutions for problems related to a broad range of other building considerations with an impact on interior design New to this edition are chapters on structural systems and building components and how they are

integrated with the other systems Illustrated with over 100 photographs and drawings new to this edition Building Systems for Interior Designers is sure to be constantly at the fingertips of designers

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