

# Cooling Load Calculations

## Basics

- Kilo watt (kW) unit of power measurement
- Watt = joule per second
- Joule : SI unit of energy
- Specific heat: amount of heat per unit mass required to raise the temperature by one degree celcius
- Denoted by C or s
- Unit of specific heat: Joule/(kg K)
- $Q = m \cdot C \cdot dT$

## Specific heat of some common substances

Substance	J/kg <sup>o</sup> C or J/kg/K	cal/g <sup>o</sup> C or cal/g/K
Water (0 <sup>o</sup> C to 100 <sup>o</sup> C)	4186	1.000
Methyl Alcohol	2549	0.609
Ice (-10 <sup>o</sup> C to 0 <sup>o</sup> C)	2093	0.500

# Cooling Load Calculation Example

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



## Cooling Load Calculation Example:

**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 **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

**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 *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 Manufacturing Facilities & Applications Charles Nehme, Cooling systems play a crucial role in maintaining optimal conditions within manufacturing facilities impacting product quality equipment longevity worker safety and energy efficiency As manufacturing processes become more complex and sensitive to environmental variables the demand for tailored efficient cooling solutions has intensified In industries ranging from electronics and pharmaceuticals to automotive and food production precise temperature and humidity control are essential for both operational stability and regulatory compliance This book Manufacturing Facilities Cooling and Applications was created to provide a comprehensive guide for engineers facility managers and industry professionals seeking to design implement and maintain cooling systems that meet the unique demands of manufacturing environments By exploring the fundamentals of cooling technology and delving into specific applications across diverse manufacturing sectors this book offers practical insights and tools to achieve effective cooling with a focus on energy efficiency sustainability and cost effectiveness Within these pages you will find discussions on a wide range of cooling systems from direct and indirect cooling methods to the latest advancements in automation and energy saving technologies We will explore the unique challenges posed by various manufacturing processes addressing issues like high heat loads contaminant control and extreme humidity management Real world case studies and examples provide insight into how leading facilities are leveraging innovative cooling solutions to enhance productivity and reduce their environmental footprint It is my hope that this book serves as both an educational resource and a practical reference empowering readers to make informed decisions about cooling system design operation and maintenance By adopting strategies that align with industry best practices and sustainability goals manufacturers can achieve optimal performance while minimizing their impact on the environment Thank you for joining me on this exploration of cooling technology in manufacturing I look forward to the knowledge and innovations that will emerge as we collectively work toward more sustainable and efficient manufacturing facilities Charles Nehme      *Subroutine Algorithms for Heating and Cooling Loads to Determine Building Energy Requirements* Ashrae Task Group on Energy Requirements. Subcommittee for Heating and Cooling Loads,1975      Heating and Cooling Load Calculations P. G. Down,1969      Load Calculation ,1988      *ASHRAE Handbook of Fundamentals* American Society of Heating, Refrigerating and Air-Conditioning Engineers,1972      **ASHRAE Handbook** ,2005      *Air Conditioning, Heating and Ventilating* ,1959      Heating, Ventilating, Air Conditioning Guide ,1959      **A Builder's Guide to Energy Efficient Homes** Georgia Institute of Technology. Engineering Experiment Station,1982      **Robinson Township v. Knoll, 410 MICH 293 (1981)** ,1981 58747      **American Society of Heating and Ventilating Engineers Guide** ,1960      **Subdivisions and Sun** Henry Fliess and Partners, Architects,M.M. Dillon Limited,John Hix, Architect and Planner,Ontario. Ministry of Energy,1979      ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers,1978      **ASHRAE Journal** ,1993      *Transactions of the American Society of Heating and Ventilating Engineers*

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## **Table of Contents Cooling Load Calculation Example**

1. Understanding the eBook Cooling Load Calculation Example
  - The Rise of Digital Reading Cooling Load Calculation Example
  - Advantages of eBooks Over Traditional Books
2. Identifying Cooling Load Calculation Example
  - 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 Cooling Load Calculation Example
  - User-Friendly Interface

4. Exploring eBook Recommendations from Cooling Load Calculation Example
  - Personalized Recommendations
  - Cooling Load Calculation Example User Reviews and Ratings
  - Cooling Load Calculation Example and Bestseller Lists
5. Accessing Cooling Load Calculation Example Free and Paid eBooks
  - Cooling Load Calculation Example Public Domain eBooks
  - Cooling Load Calculation Example eBook Subscription Services
  - Cooling Load Calculation Example Budget-Friendly Options
6. Navigating Cooling Load Calculation Example eBook Formats
  - ePub, PDF, MOBI, and More
  - Cooling Load Calculation Example Compatibility with Devices
  - Cooling Load Calculation Example Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cooling Load Calculation Example
  - Highlighting and Note-Taking Cooling Load Calculation Example
  - Interactive Elements Cooling Load Calculation Example
8. Staying Engaged with Cooling Load Calculation Example
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cooling Load Calculation Example
9. Balancing eBooks and Physical Books Cooling Load Calculation Example
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cooling Load Calculation Example
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cooling Load Calculation Example
  - Setting Reading Goals Cooling Load Calculation Example
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Cooling Load Calculation Example
  - Fact-Checking eBook Content of Cooling Load Calculation Example
  - 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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