

## Location

## Design Information

Weather: Auburn, AL, US

outside 99%/1% temps

### Winter Design Conditions

Outside db 22 °F  
Inside db 70 °F  
Design TD 48 °F

### Summer Design Conditions

Outside db 93 °F  
Inside db 75 °F  
Design TD 18 °F  
Daily range M  
Relative humidity 50 %  
Moisture difference 45 gr/lb

thermostat set point (inside)

total heating load  
at peak conditions

### Heating Summary

Structure	58517 Btuh
Ducts	1713 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	60230 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

total house size

	Heating	Cooling
Area (ft²)	3552	3552
Volume (ft³)	37728	37728
Air changes/hour	0.37	0.19
Equiv. AVF (cfm)	233	119

### Sensible Cooling Equipment Load Sizing

Structure	34536 Btuh
Ducts	837 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.98
Equipment sensible load	34665 Btuh

### Latent Cooling Equipment Load Sizing

Structure	4388 Btuh
Ducts	367 Btuh
Central vent	0 Btuh
Equipment latent load	4754 Btuh
Equipment total load	39420 Btuh
Req. total capacity at 0.76 SHR	3.7 ton

total cooling load at  
peak conditions

# Manual Hvac Load Calculation

**Joacim Rocklöv**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Manual Hvac Load Calculation:**

*Cooling and Heating Load Calculation Manual*, 1980      *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      *Residential Load Calculation* Hank Rutkowski, 2001-12-12      **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      **Cooling and Heating Load Calculation Manual** American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979      **HVAC Systems Design Handbook** Roger Haines, Lewis Wilson, 2003-03-21 A classic reference providing the applications on the job insights codes and specifications and direction needed to design HVAC systems Covers residential commercial and industrial systems NEW coverage of Energy Conservation and Digital Control Practice and greater emphasis on indoor air quality      **Residential Load Calculation** Hank Rutkowski, 1986      *The Handbook of Climate Control: A Comprehensive Guide to HVAC Systems* Pasquale De Marco, 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 Are you interested in understanding the inner workings of heating ventilation and air conditioning HVAC systems Look no further than The Handbook of Climate Control A Comprehensive Guide to HVAC Systems This comprehensive guide is designed to provide HVAC professionals mechanical engineers technicians and students with a deep understanding of climate control systems In this book you will embark on a journey through the world of climate control exploring the principles design considerations and operational

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field of HVAC calculations We hope this book inspires your curiosity sparks your passion for precision and equips you to contribute to the creation of comfortable efficient and sustainable indoor environments Whether you re an HVAC enthusiast a dedicated professional or simply someone seeking a deeper understanding of the systems that make our modern lives comfortable we invite you to embark on this educational journey with us Together we ll navigate the complexities of HVAC calculations and uncover the secrets to precision in heating ventilation and air conditioning Let the exploration begin

Sincerely Charles Nehme HVAC Q A What is HVAC HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces How does HVAC work HVAC systems typically use a combination of heating and cooling elements fans and ductwork to control the indoor environment The specific components and operation of an HVAC system will vary depending on the type of system and the specific needs of the building What are the different types of HVAC systems There are many different types of HVAC systems but some of the most common include Central heating and cooling systems Split systems Ductless mini split systems Heat pumps Furnaces Air conditioners How do I choose the right HVAC system for my home When choosing an HVAC system for your home there are a number of factors to consider such as the size of your home the climate you live in your budget and your energy efficiency goals It is important to consult with a qualified HVAC professional to get the best advice for your specific needs What is the best way to maintain my HVAC system The best way to maintain your HVAC system is to have it inspected and serviced by a qualified professional on a regular basis This will help to ensure that your system is operating efficiently and safely You should also change your air filter regularly according to the manufacturer s recommendations

Short answer HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces There are many different types of HVAC systems and the best way to choose the right one for your home is to consult with a qualified HVAC professional To maintain your HVAC system have it inspected and serviced by a qualified professional on a regular basis and change your air filter regularly

*HVAC Systems Design Handbook* Roger W. Haines, C. Lewis Wilson, 1994 The all in one book that will help identify new solutions in HVAC systems applications Table of Contents HVAC Engineering Fundamentals Design Procedures Load Calculations Design Procedures General Concepts for Equipment Selection Air Handling Systems Fluid Handling Systems Automatic Controls Cooling Heating Air Handling Electrical Features of HVAC Systems Design Documentation and Follow Up Technical Report Writing and Specifications Writing Index Illustrations

**Contractor's Guide to the Building Code** Jack M. Hageman, 2008 Don t let your jobs be held up by failing code inspections Smooth sign off by the inspector is the goal but to make this ideal happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code Understanding what the codes require can be a real challenge This new completely revised Contractor s Guide to the Building Code cuts through the legalese of the code books It explains the

important requirements for residential and light commercial structures in plain simple English so you can get it right the first time Cooling and Heating Load Calculation Manual Faye C. McQuiston, 1994 **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 HVAC A to Z - A Comprehensive Guide to Heating, Ventilation, and Air Conditioning

Charles Nehme, A Comprehensive Guide to Heating Ventilation and Air Conditioning The field of heating ventilation and air conditioning HVAC is a crucial aspect of modern living impacting our comfort health and overall well being As we strive for energy efficiency and sustainability the significance of HVAC systems has never been greater This comprehensive guide aims to provide a detailed exploration of all aspects of HVAC from its historical development to cutting edge technologies and practices Whether you are a seasoned HVAC professional a building owner or someone curious about the inner workings of HVAC systems this guide has something to offer We start by understanding the fundamental principles of heating ventilation and air conditioning including thermodynamics heat transfer and psychrometrics With this knowledge as a foundation we delve into the different types of heating and cooling systems their components and efficient operation Energy efficiency is a key theme throughout this guide and we explore various strategies to optimize energy use reduce environmental impact and cut operating costs From load calculations and efficiency ratings to smart building automation and renewable energy integration we aim to equip readers with tools to create sustainable and eco friendly HVAC solutions We also place a strong emphasis on indoor air quality and the role of ventilation in maintaining a healthy and comfortable indoor environment Discussions on mechanical and natural ventilation methods help shed light on the importance of fresh air in our daily lives Beyond the technical aspects we address broader considerations such as compliance with building codes and safety standards the integration of IoT technology in HVAC systems and the potential for demand response and peak load management to create a more balanced energy grid The challenges and opportunities in the HVAC industry are not overlooked as we explore how evolving technologies and changing environmental concerns present new avenues for growth and innovation In conclusion this comprehensive guide aims to be a valuable resource for anyone seeking a deeper understanding of heating ventilation and air conditioning As we strive for sustainable practices and energy efficient solutions the knowledge shared within these pages can pave the way for a more comfortable healthier and environmentally conscious future HVAC Q A What is HVAC HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces How does HVAC work HVAC systems typically use a combination of heating and cooling elements fans and ductwork to control the indoor environment The specific components and operation of an HVAC system will vary depending on the type of system and the specific needs of the building What are the different types of HVAC systems There are many different types of HVAC systems but some of the most

common include Central heating and cooling systems Split systems Ductless mini split systems Heat pumps Furnaces Air conditioners How do I choose the right HVAC system for my home When choosing an HVAC system for your home there are a number of factors to consider such as the size of your home the climate you live in your budget and your energy efficiency goals It is important to consult with a qualified HVAC professional to get the best advice for your specific needs What is the best way to maintain my HVAC system The best way to maintain your HVAC system is to have it inspected and serviced by a qualified professional on a regular basis This will help to ensure that your system is operating efficiently and safely You should also change your air filter regularly according to the manufacturer s recommendations Short answer HVAC stands for heating ventilation and air conditioning It is a system of technology that controls the temperature humidity and ventilation of indoor and restricted spaces There are many different types of HVAC systems and the best way to choose the right one for your home is to consult with a qualified HVAC professional To maintain your HVAC system have it inspected and serviced by a qualified professional on a regular basis and change your air filter regularly *Handbook of Energy Audits, Ninth Edition* Albert Thumann, Terry Niehus, William J. Younger, 2020-11-26 This best selling handbook is the most comprehensive and practical reference available on energy auditing in buildings and industry Topics include energy assessment and computer software which will guide you in planning and carrying out a thorough and accurate energy audit of any type of facility including electrical mechanical and building systems analysis Clear easy to follow instructions guide you through accounting procedures rate of return and life cycle cost analysis Also covered is information on understanding your utility bill and using that knowledge to trim your energy costs Loaded with forms checklists and handy working aids book is required reading for anyone responsible for conducting or overseeing a facility energy audit Completely edited throughout this latest edition includes a new chapter on investment grade energy audits and also a new chapter on retro commissioning and energy audits Revisions include new information on ISO 50001 and the Superior Energy Performance program plus a completely updated chapter on software **Mechanical Engineers' Handbook, Volume 4** Myer Kutz, 2015-03-02 The engineer s ready reference for mechanical power and heat Mechanical Engineer s Handbook provides the most comprehensive coverage of the entire discipline with a focus on explanation and analysis Packaged as a modular approach these books are designed to be used either individually or as a set providing engineers with a thorough detailed ready reference on topics that may fall outside their scope of expertise Each book provides discussion and examples as opposed to straight data and calculations giving readers the immediate background they need while pointing them toward more in depth information as necessary Volume 4 Energy and Power covers the essentials of fluids thermodynamics entropy and heat with chapters dedicated to individual applications such as air heating cryogenic engineering indoor environmental control and more Readers will find detailed guidance toward fuel sources and their technologies as well as a general overview of the mechanics of combustion No single engineer can be a specialist in all areas that they are called on to work in the diverse industries and job functions

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**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

**HVAC Design Sourcebook** W. Larsen Angel,2011-11-07 THE DEFINITIVE GUIDE TO HVAC DESIGN This practical manual describes the HVAC system design process step by step using photographs drawings and a discussion of pertinent design considerations for different types of HVAC components and systems Photographs of HVAC components in their installed condition illustrate actual size and proper configuration Graphical representations of the components as they should appear on construction drawings are also included Learn how to design HVAC systems accurately and efficiently from this detailed resource HVAC DESIGN SOURCEBOOK COVERS The design process HVAC load calculations Codes and standards Coordination with other design disciplines Piping valves and specialties Central plant equipment and design Air system equipment and design Piping and ductwork distribution systems Terminal equipment Noise and vibration control Automatic temperature controls Construction drawings

Manual N Glenn Hourahan,Hank Rutkowski,Air Conditioning Contractors of America,2008



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