

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 S Worksheet Cooling

**National Research Council Canada.
Division of Building Research**



Manual S Worksheet Cooling:

, Field Manuals United States. War Department, 1978 *Environmental Systems Library: [manual]*. Air Conditioning Contractors of America, 1955 **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 **Green Your Home** Jeanne Roberts, 2008 Teaches you how to use earth friendly materials to build or upgrade your home BOOK JACKET *CAL - ERDA Users Manual*, 1977 *The Passivhaus Handbook* Janet Cotterell, Adam Dadeby, 2012-11-30 As we move towards the 2016 zero carbon target in house building Passivhaus construction looks like becoming not just popular in the UK but commonplace This is a no nonsense and engaging introduction on how to do it KEVIN MCCLOUD The Passivhaus Handbook is an essential guide for anyone wanting to realise a supremely comfortable healthy and durable home with exceptionally low energy costs Passivhaus design focuses on getting the building fabric right to achieve ultra low energy consumption cost effectively The approach is relevant to a wide range of building types and climates Its methodology can be combined with elements of other building standards such as the UK's Code for Sustainable Homes CSH or with other sustainable building goals such as a commitment to using low impact or natural building materials Whether you are building an extension retrofitting your house or starting from scratch and whether you are new to low energy design or already have some experience this book will help you navigate around the potential pitfalls and misconceptions It brings together current thinking and best practice The book includes a clear explanation of the underlying building physics and terminology as well as detailed information on key elements of Passivhaus avoiding air leakage designing thermal cold bridges moisture management and ventilation strategy There is also lots of practical advice on setting up a project including developing a motivated project team and a discussion of economic considerations and the policy context in the UK As pressure on global resources increases and energy prices continue to rise the Passivhaus approach proven over 20 years meets the challenge of ultra low energy building for the future Warm Air Heating & Air Conditioning Library National Warm-Air Heating and Air Conditioning Association (U.S.), 1961 *Adjusting Central Air Conditioning Systems for Maximum Comfort* National Environmental Systems Contractors Association, 1957

How to Design an HVAC System: A Comprehensive Guide Charles Nehme, In an era where our lives are increasingly spent indoors the quality of our built environments has never been more paramount From the air we breathe to the thermal comfort we experience the unseen forces of heating ventilation and air conditioning HVAC systems silently orchestrate our well being productivity and health Yet for many the intricate workings of HVAC remain a mystery often relegated to an

afterthought in the grand scheme of architectural design This oversight however comes at a significant cost not only in terms of comfort and health but also in substantial energy consumption and environmental impact Having dedicated over three decades to the dynamic world of HVAC and MEP consulting across diverse global landscapes I've witnessed firsthand the transformative power of well designed systems and the profound consequences of their neglect From the complex industrial facilities that power our economies to the towering commercial structures where innovation thrives and the intimate residential spaces we call home the principles of optimal air management remain universal yet their application demands nuanced understanding and precise execution This book *Mastering HVAC System Design A Comprehensive Guide* is born from that extensive experience and a deep seated commitment to demystifying the art and science of HVAC engineering It is crafted not just for seasoned professionals seeking to refine their expertise but also for aspiring engineers architects building owners and anyone keen to understand the critical backbone of modern structures My aim is to bridge the gap between theoretical knowledge and practical application providing a holistic framework that empowers you to design systems that are not only efficient and effective but also sustainable and resilient We will embark on a journey from the fundamental principles of heat transfer and psychrometrics through the meticulous process of load calculations to the intricate dance of equipment selection and sophisticated control strategies We will delve into the critical aspects of indoor air quality energy efficiency and the long term stewardship of these vital systems through proper commissioning and maintenance My hope is that this guide serves as your trusted companion illuminating the path to creating environments that are healthier more comfortable and significantly more sustainable for generations to come Let us design smarter buildings so we can all breathe better Charles Nehme Global HVAC and MEP Consultant *Residential and Commercial Air Conditioning* Charles H.

Burkhardt,1959 **Solar Energy Technology Handbook** E. W. Dickinson,2018-05-04 The handbook for convenient use is divided into eight main units 1 The Solar Resource 2 Solar Thermal Collectors 3 Photovoltaics 4 Bioconversion 5 Wind Energy 6 Solar Energy Storage Systems 7 Applications of Solar Energy 8 Non technical Issues In addition there are three Appendixes containing unit conversion tables and useful solar data It became obvious early in this project that if proper coverage were to be given each of these areas it would be necessary to divide the handbook into two volumes The first six units constitute Part A Engineering Fundamentals and the last two units constitute Part B Applications Systems Design and Economics These volumes have been prepared primarily as reference books but it is felt that many of the sections will prove useful for practicing engineers scientists and students **Fan Engineering** Robert Jorgensen,1970 **Technical Report ... of the Division of Building Research** National Research Council Canada. Division of Building Research,1949 **1985 Energy Efficiency Standards Training Guide for Office Building Compliance** ,1986 *Fuel oil news* ,1957 *DOE-1 Reference Manual* ,1979 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 **Heating and Air Conditioning Contractor** ,1958 **School Shop** ,1981

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