

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)

Heating Summary

total heating load at peak conditions

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

total cooling load at peak conditions

Structure	4388 Btuh
Ducts	367 Btuh
Central vent	0 Btuh
Equipment latent load	4754 Btuh
Equipment total load	39420 Btuh
Req. total capacity at 0.78 SHR	3.7 ton

Manual J For Sizing Cooling System

M Mark



Manual J For Sizing Cooling System:

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 *Audel HVAC Fundamentals, Volume 1* James E. Brumbaugh, 2012-07-02 A reference you'll warm up to From the background and basics of heating systems to the newest chip based technology this first volume of Audel's HVAC Library gives you comprehensive information you need on the job Whether you're installing servicing repairing or troubleshooting an old or new heating system you'll find what you're looking for from wood and coal furnace maintenance to new calculations and the latest environmental technologies and regulations Review the basics of installation wiring and troubleshooting for different HVAC systems Choose the correct system for the space climate and needs Compare the economy and efficiency of various fuel types Install maintain and troubleshoot conversion units Find formula cross references data tables with conversions and listings of trade organizations and equipment manufacturers **Green Building: An**

Engineering Approach to Sustainable Construction Christian M. Carrico, 2025-06-05 Green Building An Engineering Approach to Sustainable Construction fills a void in green building which has good textbook options for practitioners architects and sustainability experts but not an engineering focused textbook focused on green building This new text takes an engineering approach to evaluating green building techniques systems and materials The book examines the built environment from inside out looking at minimizing environmental impacts while also considering the economics and energy use and efficiency While not a test prep book it will provide the knowledge foundation that will help prepare the students to take the Leadership in Energy and Environmental Design accreditation exam As students are often unclear on the evolving employment prospects in this field particularly for the engineer the textbook also features six case studies showing different career pathways for engineers in this arena Takes a quantitative and analytical engineering approach to evaluating green building techniques systems and materials Includes dedicated engineering examples and end of chapter problems that help develop students problem solving and analytical skills Combines conceptual and calculational aspects that link to both big picture issues e.g. how many Hiroshima blasts per year is the radiative forcing equivalent to along with everyday considerations like climate change real life experiences how much do I have to insulate my chicken coop to keep them warm passively in the winter Links textbook coverage to ABET criteria for accreditation of engineering programs **Consumer Guide to Home Energy Savings** Jennifer Thorne Amann, Alex Wilson, Katie Ackerly, 2007 How efficient are front load washing machines When is it time to replace your old refrigerator These questions and many more are answered in The

Consumer Guide to Home Energy Savings a one stop resource for consumers who want to improve their home s energy performance and reduce costs Zeroing in on the most useful response can be a challenge this ninth edition cuts through the confusion Well organized and highly readable The Consumer Guide to Home Energy Savings begins with an overview of the interrelationships between energy use economics and the environment Chapters focus on specific areas in the home such as electronics lighting heating cooling ventilation kitchen and laundry and provide helpful explanations for each including Describing energy use characteristics Drawing comparisons between available technologies Outlining the most cost effective repair and replacement options Providing step by step guidance for finding the right equipment Describing how the equipment operates Summarizing how much energy is used or lost Included are tips on improving existing equipment and guidance for when and why consumers should purchase new energy efficient equipment as well as a reminder to check local government and utility incentives for purchase or retrofit grants This guide will be an invaluable resource to all consumers concerned about reducing both their energy bills and their environmental impact Jennifer Thorne Amann is a senior associate in the ACEEE American Council for an Energy Efficient Economy Buildings and Equipment Program Alex Wilson is president of BuildingGreen Inc author of Your Green Home and executive editor of Environmental Building News

Audel HVAC Fundamentals, Volume 3 James E. Brumbaugh, 2004-08-06 Keep it cool or heat things up This third volume of Audel s HVAC Library gives you a comprehensive hands on guide to installing servicing and repairing all basic air conditioning systems in both new and older construction You ll also find complete coverage of specialized heating units radiators radiant heating systems stoves fireplaces heat pumps and indoor outdoor pool heaters plus fans exhaust systems air filters and more It s what you need to complete your HVAC reference library Make accurate calculations for AC system output Tailor AC systems for older construction Learn to install and service today s popular electronic air cleaners and filters Service less common heating systems such as coal fired furnaces Install maintain and repair humidifiers and dehumidifiers Handle radiators convectors and baseboard heating units

[Geothermal Heat Pumps: Installation Guide](#) Stephen K. Ewings, 2008-10

Green Home Building Miki Cook, Doug Garrett, 2014-09-01 A comprehensive guide to building green on any budget According to conventional wisdom building a green home is an expensive endeavor The standard approach treats green as an add on tacking premium products finishes and equipment onto a traditional home design As a result many green home projects end up over budget or fail to achieve their environmental and performance goals Green Home Building explodes the myth that green homes have to cost more Using proven methods based on applied building science the authors show how to Lower base construction costs to provide funding for high performance upgrades Achieve a net zero energy home including zero ing water waste carbon and associated costs within fifteen years Live affordably into the future despite anticipated rising costs for fuel water materials taxes and health care This comprehensive guide to building green on any budget defines the strategies that maximize the return on green investments Written for anyone who has ever been swayed

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is undergoing a significant shift toward sustainability and energy efficiency with increasing awareness of the environmental challenges posed by traditional energy sources. Among the most energy intensive systems in homes, businesses, and industrial settings are Heating, Ventilation, and Air Conditioning (HVAC) systems. These systems account for a substantial portion of global energy consumption and are often powered by fossil fuels, contributing to greenhouse gas emissions and environmental degradation. As the demand for energy continues to grow, so does the need for more sustainable and renewable solutions. Renewable energy, particularly solar, wind, and geothermal, presents a viable alternative to traditional power sources for HVAC systems. These natural energy sources offer a cleaner, more sustainable way to heat and cool buildings, reducing both energy costs and the carbon footprint of HVAC operations.

The Importance of Renewable HVAC Systems

HVAC systems are essential for maintaining indoor comfort, but their energy requirements can be immense, especially in extreme climates. Traditional systems rely heavily on electricity generated from non-renewable sources, leading to significant environmental impact. Transitioning to renewable HVAC solutions not only addresses environmental concerns but also offers long-term economic benefits. Renewable energy HVAC systems are designed to harness the power of the sun, wind, and the Earth itself to provide heating, cooling, and ventilation. These systems not only reduce dependence on fossil fuels but also help stabilize energy costs in the long run. With advances in technology, renewable HVAC systems have become more efficient, reliable, and affordable, making them a practical option for a wide range of applications, from residential homes to large commercial facilities.

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[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

Building an Affordable House 2nd Edition Fernando Pages Ruiz, 2024-03-12 Unlock the secrets to building high quality affordable homes with this thoroughly updated version of the classic Building an Affordable House This comprehensive guide is perfect for builders developers and homeowners looking to maximize their construction or remodeling budget without sacrificing quality Whether you re building a new home or renovating an existing one this book provides the tools and knowledge you need to achieve high value low cost results Transform your construction projects with strategies that balance marketability quality and affordability It s a detailed roadmap that takes the speculation out of building and provides the builder with an elusive commodity in the construction industry peace of mind Plus keeping sustainability at the forefront of building decisions isn t simply good for the environment it s good for the homeowner s bottom line This second edition of Building an Affordable House provides an updated sensibility to the building decisions every homeowner must make in today s challenging construction environment whether building a brand new house or renovating one they love Key Features Cost Saving Techniques Discover insider methods used by top homebuilders to save thousands on construction costs Budget Friendly Design Learn how to add curb appeal and functionality without breaking the bank Sustainable Practices Incorporate eco friendly building techniques that benefit both the environment and your wallet Step by Step Guidance Detailed instructions on everything from foundations to finishes ensuring you get the most value for your investment Expert Insights Benefit from the author s 30 years of experience in the construction industry with practical tips and real world examples

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.

How to Install an HVAC Unit: A guide to installing a new HVAC system, including proper placement and sizing Charles Nehme, In today's world the importance of a comfortable indoor environment cannot be overstated. Whether in our homes, offices or commercial spaces, heating, ventilation and air conditioning (HVAC) systems play a crucial role in maintaining our well-being and productivity. However, many homeowners and DIY enthusiasts are often overwhelmed by the complexity of installing a new HVAC system. That's where this guide comes in. This book is designed to demystify the HVAC installation process, providing clear step-by-step instructions to help you successfully install a new system in your home or business. With over 30 years of experience in the HVAC industry, I have witnessed firsthand the challenges many face when attempting to tackle this task. I understand the frustration that can arise from navigating technical specifications, sizing issues and installation intricacies. In this guide, you will find practical advice on assessing your needs, choosing the right system and understanding the critical importance of proper placement and sizing. Each chapter is structured to build your knowledge and confidence, whether you are a seasoned professional or a beginner embarking on your first installation project. Moreover, this book emphasizes the importance of safety and compliance with local codes, ensuring that you not only achieve optimal performance from your HVAC system but also adhere to legal standards. I will provide troubleshooting tips and maintenance advice to help you keep your system running efficiently for years to come. As you delve into the following chapters, I encourage you to take your time, gather your tools and approach each step with patience and diligence. Remember, proper installation is the foundation of an efficient HVAC system, and a well-installed unit can significantly enhance your comfort while reducing energy costs. I hope this guide serves as a valuable resource on your journey to mastering HVAC installation. Let's get started on creating a comfortable and energy-efficient environment for you and your loved ones. Warm regards, Charles Nehme

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Adjusting Central Air Conditioning Systems for Maximum Comfort National Environmental Systems Contractors Association,1957

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