



Building Summary Loads

Building peaks in July at 5pm.

Bldg Load Descriptions	Area Quan	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Roof	1,293	2,829	2.94	0	1,737	1,737	1.51
Wall	846	2,917	3.03	0	1,199	1,199	1.04
Glass	0	0	0.00	0	0	0	0.00
Floor Slab	0	0	0.00	0	0	0	0.00
Skin Loads		5,746	5.97	0	2,936	2,936	2.55
Lighting	1,940	0	0.00	0	7,280	7,280	6.32
Equipment	3,157	0	0.00	0	11,847	11,847	10.29
Pool Latent	0	0	0.00	0	0	0	0.00
People	10	0	0.00	3,025	3,025	6,050	5.26
Partition	0	0	0.00	0	0	0	0.00
Cool. Pret.	0	0	0.00	0	0	0	0.00
Heat. Pret.	0	0	0.00	0	0	0	0.00
Cool. Vent.	1,680	0	0.00	35,939	39,787	75,725	65.79
Heat. Vent.	1,680	90,556	94.03	0	0	0	0.00
Cool. Infil.	0	0	0.00	0	0	0	0.00
Heat. Infil.	0	0	0.00	0	0	0	0.00
Draw-Thru Fan	0	0	0.00	0	0	0	0.00
Blow-Thru Fan	0	0	0.00	0	547	547	0.48
Reserve Cap.	0	0	0.00	0	10,718	10,718	9.31
Reheat Cap.	0	0	0.00	0	0	0	0.00
Supply Duct	0	0	0.00	0	0	0	0.00
Return Duct	0	0	0.00	0	0	0	0.00
Misc. Supply	0	0	0.00	0	0	0	0.00
Misc. Return	0	0	0.00	0	0	0	0.00
Building Totals		96,301	100.00	38,964	76,140	115,103	100.00

Building Summary	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Ventilation	90,556	94.03	35,939	39,787	75,725	65.79
Infiltration	0	0.00	0	0	0	0.00
Pretreated Air	0	0.00	0	0	0	0.00
Room Loads	5,746	5.97	3,025	35,806	38,831	33.74
Plenum Loads	0	0.00	0	0	0	0.00
Fan/Duct/Misc Loads	0	0.00	0	547	547	0.48
Building Totals	96,301	100.00	38,964	76,140	115,103	100.00

Check Figures

Total Building Supply Air (based on a 20° TD):

1,679 CFM

Total Building Vent. Air (100.04% of Supply):

1,680 CFM

Total Conditioned Air Space:

1,293 Sq.ft

Supply Air Per Unit Area:

1.2988 CFM/Sq.ft

Area Per Cooling Capacity:

134.8 Sq.ft/Ton

Cooling Capacity Per Area:

0.0074 Tons/Sq.ft

Heating Capacity Per Area:

74.48 Btuh/Sq.ft

Total Heating Required With Outside Air:

96,301 Btuh

Total Cooling Required With Outside Air:

9.59 Tons

Manual J And D Calculations

Charles Nehme



Manual J And D Calculations:

How to Size HVAC Equipment Step by Step Charles Nehme, The proper sizing of Heating Ventilation and Air Conditioning HVAC equipment is arguably the most critical step in designing an efficient comfortable and durable building system Yet it remains one of the most misunderstood and frequently misapplied processes in the construction industry Far too often equipment is selected based on rough rules of thumb arbitrary square footage estimates or the dangerous notion that bigger is better This inevitably leads to significant problems high energy bills poor humidity control making spaces feel clammy and uncomfortable shortened equipment lifespan due to constant cycling and pervasive comfort complaints This book How to Size HVAC Equipment Step by Step is written to close that gap It is a comprehensive practical guide designed to demystify the rigorous process of load calculation and equipment selection We move beyond simple guesswork and dive into the accredited methodology used by top tier engineering consultants worldwide specifically utilizing the standards set forth by the Air Conditioning Contractors of America Manuals J S and D Our approach is built on a foundation of fundamental engineering principles but is structured in a clear sequential and highly accessible manner We will guide you from the initial collection of site and building data through the detailed calculations of sensible and latent heat gains and losses and finally to the precise selection of the right sized equipment and the design of the necessary ductwork Whether you are a seasoned professional seeking to refine your methods or a newcomer looking for a structured entry into this essential field this guide provides the clarity and authority you need to ensure every system you design or install operates optimally delivering peak comfort maximum efficiency and reliable performance for decades to come 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 **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 Codes and Regulations: Navigating Compliance in Building Services Charles Nehme, Building codes and regulations form the backbone of modern building services ensuring that structures are safe efficient and sustainable As the complexity of buildings increases so too does the web of standards that govern their design construction and operation For professionals in the fields of HVAC electrical and plumbing services navigating this landscape is critical not only to ensure compliance but also to deliver systems that promote safety comfort and energy efficiency In my career spanning over 30 years I have witnessed firsthand the evolving nature of building codes and the challenges they present to engineers contractors and facility managers alike What once seemed like a straightforward process has transformed into a sophisticated practice requiring deep knowledge of not only local regulations but also international standards and best practices This book Building Codes and Regulations Navigating Compliance in Building Services is born out of my experience in the HVAC and construction industries It is designed to provide a comprehensive overview of the critical codes and regulations that shape the field of building services specifically focusing on HVAC electrical and plumbing systems My goal is to demystify these codes and present them in a way that is both accessible and practical for professionals at all levels Throughout this book you will find detailed discussions on key standards including the International Building Code IBC National Electrical Code NEC and standards from bodies like ASHRAE and NFPA We will explore how these regulations intersect with energy efficiency initiatives fire safety and accessibility requirements among others More importantly I aim to provide insights into the approval process inspection requirements and best practices to help you avoid common pitfalls In addition to regulatory knowledge this book emphasizes the importance of staying informed in an ever

changing industry New technologies climate change considerations and the push for sustainability are all shaping the future of building services and understanding how these trends impact building codes will be key to remaining competitive and compliant in the years ahead It is my hope that this book will serve as a valuable resource for engineers architects contractors and anyone involved in the design construction or maintenance of building systems Whether you are navigating codes for the first time or seeking to deepen your expertise the insights provided here will guide you in creating systems that meet today s stringent requirements while preparing for tomorrow s innovations Thank you for embarking on this journey with me Sincerely Charles Nehme Problems with Oversized HVAC Systems: Causes, Effects, and Solutions Charles

Nehme, In the world of heating ventilation and air conditioning HVAC bigger is often assumed to be better Many believe that an oversized HVAC system can cool or heat a building faster and more efficiently promising comfort on demand However this common misconception can lead to a host of hidden issues ones that not only affect the performance and efficiency of the system but also have serious implications for comfort indoor air quality and even the environment The purpose of this book is to delve into the problems that arise from oversized HVAC systems Whether you are a homeowner building manager HVAC professional or simply someone interested in energy efficiency this book will shed light on why size really does matter when it comes to HVAC design Drawing from years of industry experience and engineering principles this book explains the causes behind improper system sizing and how this leads to issues like short cycling excessive energy consumption humidity problems and uneven air distribution We ll explore real world examples of how oversized systems can lead to higher operational costs and decreased comfort while also causing long term damage to the equipment and the environment By understanding these problems readers will gain insight into how to diagnose and fix oversized systems in existing buildings More importantly they will learn strategies to avoid these issues in the first place ensuring that future systems are designed for optimal performance energy efficiency and occupant comfort In the pages that follow we will walk you through the science and art of HVAC system design showing how proper load calculations and smart design choices can save money reduce energy waste and enhance quality of life This is not only a technical guide but also a call for more responsible and sustainable HVAC practices Whether you re working on a residential home a commercial building or a large scale industrial project this book aims to provide you with the knowledge and tools needed to address the hidden costs and impacts of oversized HVAC systems It s time to move beyond the myth that bigger is better and embrace the reality that the right size is the best size Thank you for joining me on this journey toward smarter HVAC design and operation Environmental Systems Library: [manual]. Air Conditioning Contractors of America,1955 **Electrical World** ,1901 **Mathematical tables for trigonometrical, astronomical, and nautical calculations. [With] Tables intended to facilitate the operations of navigation and nautical astronomy, by J.R. Young** Henry Law,1884 **Load Calculation for Residential Winter and Summer Air Conditioning** ,1986 **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

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

A Practical Manual of Autogenous Welding (oxy-acetylene) Raphaël Granjon, Pierre Rosemberg, 1918

Textile Calculations, Manufacture and Mechanism Joseph Henry Whitwam, 1920

HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-10-14 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards Featuring an outline format for ease of use the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling heating ventilation and more New material including coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating

Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers Boilers Cooling Towers Heat Exchangers Auxiliary Equipment Fans Pumps Motors Controllers Variable Frequency Drives Filters Insulation Fire Stopping Automatic Controls Building Automation Systems Equipment Schedules Equipment Manufacturers Building Construction Business Fundamentals Architectural Structural and Electrical Information Conversion Factors Properties of Air and Water Designer s Checklist Professional Societies and Trade Organizations References and Design Manuals Cleanroom Criteria and Standards **Residential Steel Design and**

Construction John H. Hacker, Julie A. Gorges, 1998 Design and build energy efficient steel framed houses as a practical alternative to wood As high quality wood becomes scarcer and more expensive residential builders are turning to steel as the building material of choice Now you can improve your bottom line by learning to design and build steel framed residential structures that are energy efficient low in cost and easy to build Using examples from award winning houses this clear step by step guide provides everything a residential contractor needs to know to build a steel framed house quickly and easily You ll discover how to select the right materials and tools use energy efficient HVAC units appliances and lighting choose the best windows and doors and optimize landscaping and solar design The book will enable you to overcome steel s thermal deficiencies through proper design and insulation and surpass the energy efficiency of traditional building materials conduct your own Model Energy Code energy analysis for compliance with HUD regulations explore CABO and UBC approved steel framing details for a complete two bedroom house plan With lots of money saving tips on ordering and using proper building materials plus professional advice on applying traditional and new methods of interior and exterior insulation this is the most complete and practical resource available on a subject of increasing importance to residential builders and designers

Code of Federal Regulations , 1996 Special edition of the Federal Register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries Geothermal HVAC Jay Egg, Brian Clark Howard, 2010-11-05 In depth practical details on geothermal HVAC systems This definitive guide covers commercial and residential geothermal heating ventilation and air conditioning technologies and explains how to take advantage of their money and energy saving features Geothermal HVAC Green Heating and Cooling reviews the array of choices currently available offers market values for systems based on varying options and conditions and describes how to pair the best systems for each application and budget Whether you re a contractor or a consumer you ll find out what you need to know to implement a geothermal HVAC system in a retrofit or new construction project and start benefiting from this sustainable affordable technology Find out how to Learn the basic types of heat transfer convection conduction and radiation Understand how geothermal earth coupled heat pumps work Determine which ground loops to use for earth coupling to best meet the

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