

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 J For Sizing Cooling System

Yijin Wang



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 *What size AC system do I need for my home ?* Charles Nehme, Choosing a new air conditioning system for your home is one of the most significant and costly decisions a homeowner will make Yet for too long this process has been shrouded in technical mystery and often reduced to guesswork The conventional wisdom or lack thereof has resulted in millions of American homes being cooled by systems that are either oversized or undersized An oversized unit doesn't just waste energy it short cycles failing to run long enough to properly dehumidify your home leaving the air feeling clammy and uncomfortable An undersized unit runs endlessly struggling to keep up during the hottest months leading to high utility bills and premature system failure Neither scenario provides the comfort and efficiency you paid for This book is a homeowner's essential guide to conquering the guessing game of HVAC sizing We strip away the jargon and walk you through the precise science backed methodology used by professionals the Manual J Load Calculation By the end of this journey you won't just know what size AC you need you'll understand why a critical distinction that empowers you to work confidently with contractors and ensure your home is perfectly cooled for decades to come Comfort efficiency and peace of mind are within your reach

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 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 by the argument that the price tag limits how green a home can be Green Home Building is a must read for builders contractors architects designers and homeowners Miki Cook is a green building and sustainability consultant who has dedicated her career to educating contractors and the public on the strategies methods and benefits of green homes Doug Garrett has trained thousands of homebuilders architects and sub contractors to build energy efficient homes using applied building science to improve comfort durability and healthfulness while meeting or exceeding the energy code **Troubleshooting Guide to Residential Construction** Steven Bliss,2005-08-26 Avoid pitfalls with these expert tips techniques for diagnosing and preventing the most common residential building defects More than 50 experts in the field describe their proven techniques for preventing building problems *Residential Comfort System Installation Standards Manual* Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1998 Adjusting Central Air Conditioning Systems for Maximum Comfort National Environmental Systems Contractors Association,1957 "*Code of Massachusetts regulations, 1988*" ,1988 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 The Owner-Builder Book Mark A. Smith,Elaine M. Smith,2007-05 **"Code of Massachusetts regulations, 1996"** ,1996 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "*Code of Massachusetts regulations, 1995*" ,1995 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "*Code of Massachusetts regulations, 1994*" ,1994 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "*Code of Massachusetts regulations, 2004*" ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "Code of Massachusetts regulations, 1998" ,1998 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of

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