

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

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

Infiltration

Method Construction quality
Fireplaces Simplified Average 0

Latent Cooling Equipment Load Sizing

Structure **total cooling load at peak conditions** 4388 Btuh
Ducts 367 Btuh
Central vent 0 Btuh
Equipment latent load 4754 Btuh

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

Equipment total load 39420 Btuh
Req. total capacity at 0.78 SHR 3.7 ton

Manual J Heating Load Calculation

Ying-Ying Zheng



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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 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 **HUD Minimum Property Standards: Solar heating and domestic hot water systems** Center for Faith-Based and Community Initiatives (United States. Department of Labor),1973 *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 **Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems** United States. Department of Housing and Urban Development,1977 **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

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