

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

Manual J Hvac Load Calculation

Raffaella Di Napoli

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Manual J Hvac Load Calculation:

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 *Residential Load*

Calculation Hank Rutkowski, 1986 **Letter (1903-1904) and Research Notes Regarding Dunning Families of Cumberland and York Counties, Pa , Contractor's Guide to the Building Code** Jack M. Hageman, 2008 Don't let your jobs be held up by failing code inspections Smooth sign off by the inspector is the goal but to make this ideal happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code Understanding what the codes require can be a real challenge This new completely revised Contractor's Guide to the Building Code cuts through the legalese of the code books It explains the important requirements for residential and light commercial structures in plain simple English so you can get it right the first time **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 **Thermal Energy Storage** C. Louis Clark, Air Conditioning Contractors of America, National Renewable Energy Laboratory (U.S.), 2005

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

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The Northwest Green Home Primer Kathleen Smith,Kathleen O'Brien,2008-03-15 The essential real world green home manual Everyone can make green home decisions on a budget with this inspiring informationpacked guide Whether you are building remodeling buying or just curious here are real world strategies for getting the greenest results from your budget with hundreds of ideas for a home that is built to last comfortable and healthy money and time saving in the long term and kind to the planet From your home s exterior to its operating systems within from siting to interior design this is the basic training that has given many the confidence to proceed Award winning sustainable design and building consultant and teacher Kathleen O'Brien and architectural designer and sustainability consultant Kathleen Smith offer their top picks for each phase They've also each faced their own green home challenges in a single family house and a duplex and other case studies show affordable energy efficient green homes both old and new Brimming with ideas clear and logical with tips checklists and resources for green home planning construction remodeling and maintenance extensively illustrated with photos and diagrams this is the essential green home manual for novice and professional alike

The Owner-Builder Book Mark A. Smith,Elaine M. Smith,2007-05

[The Massachusetts register](#) ,1988

Load Calculation ,1988

"*Code of Massachusetts regulations, 2011*" ,2011 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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 *"Code of Massachusetts regulations, 2012"* ,2012 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, 2008"** ,2008 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, 2010" ,2010 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, 2009"** ,2009 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, 1989" ,1989 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Load Calculation for Residential Winter and Summer Air Conditioning** ,1986

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web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

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web in this lab we will use experimental evidence and the principles of stoichiometry to determine which ion is formed in a single replacement reaction between iron and copper ii sulfate pre lab assignment in preparation for the lab activity we will investigate another single replacement reaction between copper and silver nitrate

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

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web lab 4 stoichiometry the reaction of iron with copper ii sulfate revised 8 19 2009 1 introduction in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces

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web under the finalise of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated CuSO_4 solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

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web stoichiometry the reaction of iron with copper ii sulfate purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction

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web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27

g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g