

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

Hvac Heat Load Calculation Manual

AN Whitehead



Hvac Heat Load Calculation Manual:

Cooling and Heating Load Calculation Manual, 1980 **Load Calculation Applications Manual** Jeffrey D. Spitler, 2010-01-01 Focuses on the radiant time series and heat balance methods for calculating cooling loads in nonresidential buildings The intended audience is relatively new engineers who are learning to do load calculations as well as experienced engineers who wish to learn the radiant time series method Provided by publisher **Cooling and Heating Load Calculation Manual** Faye C. McQuiston, 1994 *Cooling and Heating Load Calculation Manual* American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979 *Cooling and Heating Load Calculation Manual* Faye C. McQuiston, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Jeffrey D. Spitler, 1992 Provide a comprehensive source of theory procedures and data for cooling and heating load calculations for other than residential buildings **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 **HVAC Heating Load Calculations and Principles** A. Bhatia, 2014-11-01 The prime requirement in respect of the indoor climate in a building is that room temperature should be at a comfortable level regardless of the weather conditions outside As soon as the ambient temperature is lower than the indoor temperature heat flows out from the building through its boundary surfaces the building envelope At the same time the building also loses heat through air infiltration i e the inward leakage of outdoor air into the building through gaps and cavities in walls roofs doors and windows Bearing in mind the fact that the indoor temperature in most buildings is maintained at a little over 65 F this means throughout most of the year the building is losing heat to its surroundings This 5 hour course discusses the stepwise procedure to determine the rate of heat loss through building elements using a process called heat loss calculation You will learn how to extrapolate your calculation of a maximum hourly rate into an annual energy usage rate You will also learn some useful tips on saving heating energy The course includes one sample example for better understanding of the concept Learning Objective At the end of this course the reader will 1 Describe the factors affecting comfort in winter 2 Describe the overall heat transfer coefficient U value and its relationship to resistance R value 3 Understand the basic equation of heat loss through building elements such as walls roof and glass 4 Understand the basic equation of heat loss through floor slab and basement 5 Understand the basic equation of heat loss through ventilation and infiltration 6 Understand the concept of degree days and how it is used to estimate the annual heat loss 7 Understand the three basic modes of heat transfer conduction convection and radiation 8 Understand the

difference between the k values C values R values and U values 9 Learn by examples to calculate the series resistance and U values of a composite wall 10 Learn how to determine the infiltration and ventilation air flow rate 11 Understand by an example the detailed methodology to heat loss calculations 12 Understand the basic terminology and definitions related to air conditioning load calculations

Heating, Ventilating, and Air Conditioning Faye C. McQuiston, Jerald D. Parker, 1994
 This edition reflects the latest results of research sponsored by the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE and the continued development of ASHRAE standards regarding indoor air quality comfort and refrigerants The chapter on air conditioning systems has been revised increased emphasis has been placed on control of HVAC systems by adding more explanation of control theory and more detailed illustrations of typical systems and control Data and references have been completely updated Existing problems have been revised and new ones added

Precision HVAC Sizing: The Consultant's Guide to Load Calculation and System Selection Charles Nehme, The efficiency longevity and ultimate performance of any built environment be it a skyscraper a hospital or a family home hinges critically on one fundamental engineering task the precise sizing of its Heating Ventilation and Air Conditioning HVAC system An HVAC system is not merely a collection of machines it is the building's respiratory and thermoregulatory center When correctly sized it provides an invisible blanket of comfort maintains optimal air quality and operates with a silent sustainable efficiency When improperly sized it becomes a source of wasted energy occupant discomfort and costly premature failure In my more than three decades as a global HVAC and MEP consultant I have witnessed firsthand the substantial economic and environmental penalties incurred when the art and science of sizing are neglected Oversized systems short cycle failing to dehumidify effectively and wasting energy while undersized systems run perpetually struggling to meet demand and burning out components long before their time This book is dedicated to demystifying the complex interplay of thermodynamics building science and climate data that governs the sizing process It is a practical guide that bridges the gap between theoretical load calculations and real world system selection drawing on international standards and practical field experience My goal is to equip designers engineers and students with the methodologies tools and critical thinking required to ensure every HVAC system they touch is perfectly matched to its application delivering the trifecta of comfort energy efficiency and reliable longevity Precision is not a luxury in HVAC design it is a necessity Let this guide be your essential companion on the path to mastering it

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