

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

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Clemens Wendtner



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ASHRAE Journal ,1995 The Owner-Builder Book Mark A. Smith,Elaine M. Smith,2007-05 **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 **14th International Conference on Compressors and Their Systems** Ahmed Kovacevic,Matthew Read,Sham Rane,Ivona Ivkovic-Kihic,Halil Lacevic,2026-02-07 This proceedings book discusses developments in air gas and refrigeration compressors vacuum pumps and expanders It is the 14h edition of the International Conference on Compressors and their Systems a three day conference organized by the Centre for Compressors Technology at City St George s University of London supported by among others IMechE IIR and IOR The International Conference on Compressors and their Systems series began in 1999 as a result of industrial consultation and need for academic collaboration At the time the conference was organized by the Fluid Machinery Group of the Institution of Mechanical Engineers IMechE with support from Holroyd From 2009 the Centre for Compressor Technology at City University of London took over its management and the conference is now one of the main conventions taking place biennially in the UK becoming world renowned for its place in industry and academia to gather and discuss a broad range of topical issues related to compressors and compression systems The theme of this conference is Emerging Technologies in Compressors and their Systems **Energy Research Abstracts** ,1987 *A Builder's Guide to Energy Efficient Homes* Georgia Institute of Technology. Engineering Experiment Station,1982 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1982 Publications of the National Bureau of Standards United States. National Bureau of Standards,1981 **Publications** United States. National Bureau of Standards,1982 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1981 **Application of Big Data, Deep Learning, Machine Learning, and Other Advanced Analytical Techniques in Environmental Economics and Policy** Tsun Se Cheong,Xunpeng (Roc) Shi,Yanfei Li,Yongping Sun,2022-07-25 9th IIR Gustav Lorentzen Conference on Natural Working Fluids (GL 2010) ,2010 **Federal Register** ,1998 **Journal of Engineering for Gas Turbines and Power** ,2005 *International Engineering/scientific Software Directory* Philip C. Flora,1985 *Applied Science & Technology Index* ,1997 Mechanical and Electrical Equipment for Buildings William J. McGuinness,Benjamin Stein,John S. Reynolds,1986-02-18 A thorough revision of the classic architecture text that has become a part of most architects reference libraries this Seventh Edition covers design procedures and sizing

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