

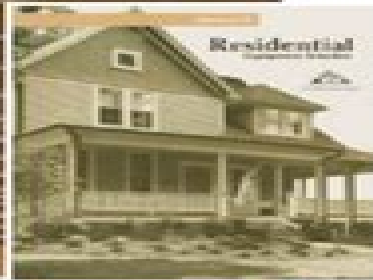
Reviewing HVAC Designs for Compliance with ACCA Manual S

by Wes Davis

An approved code change to the 2009 *International Residential Code (IRC)* clarifies an existing requirement for sizing HVAC equipment: "Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies" (emphasis added).

Air Conditioning Contractors of America (ACCA) Manual S, *Residential Heating and Cooling Equipment Selection*, provides clear instructions for interpreting and applying original equipment manufacturer (OEM) expanded performance data to select equipment that meets application requirements (heating, sensible cooling or latent cooling) for the applied design conditions used to calculate loads with ACCA Manual J, *Residential Load Calculation*. It also provides the methodology for identifying the blower airflow design value, in cubic feet per minute (cfm), which is subsequently used per IRC Section 1601.1 with ACCA Manual D, *Residential Duct Systems*, to calculate duct sizing.

In addition, Manual S sets equipment sizing limits, as summarized in Table 1. These sizing limits ensure



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Emilie Sanchez

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

Reviewing Hvac Designs For Compliance With Acca Manual S 15:

Florida Administrative Weekly, 1992 *Data Sources*, 2000 **Forthcoming Books** Rose Army, 2003 *HVAC Design Review Guide* Steve Miller Pe, 2019-07-20 The purpose of the HVAC Design Review Guide is to help the project manager or the responsible project engineer to check for coordination between design disciplines and to check for errors and omissions or inconsistencies in the HVAC design before the construction documents are finalized This Guide could also be used as a Training Manual to assist with designer and engineer development The detailed information related to all phases of HVAC design can help the designer or engineer to avoid errors or omissions during the design phase The included Checklist at the end of the volume can also be used to track training progress The HVAC Design Review Guide includes over 220 pages and spreadsheets that cover many of the design and engineering requirements associated with typical projects Hyperlinks are provided to help select the topics that are relevant to the project being reviewed Included are rule of thumb equipment capacities and system flow rates general constructability and spot checks of ductwork and pipe sizes A comprehensive Checklist is included at the end of the volume to check off as the design review is progressing **Residential Equipment Selection** Hank Rutkowski, Air Conditioning Contractors of America, 2014 The second edition of ACCA Manual S is the Air Conditioning Contractors of America procedure for selecting and sizing heating and cooling equipment for single family homes and low rise multi family dwellings Page i **Manual B Balancing and Testing Air and Hydronic Systems** Air Conditioning Contractors of America, 2009 For Residential and Commercial HVAC Applications **Bob's House** Acca, 2016-11-01 [HVAC Design for Swimming Pools and Spas](#) Acca, 2023-12-04 The Second Edition of ACCA Manual SPS is the Air Conditioning Contractors of America manual for designing moisture control systems for indoor spaces that have a swimming pool or spa **HVAC System Design for Low Load Homes** Acca, 2019-01-30 **Air-conditioning System Design Manual** Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings [ACCA Standard 9](#), 2009 Establishes minimum requirements for verifying that residential and light commercial HVAC systems meet the ANSI ACCA 5 QI 2007 Standard **Residential Zoning, Manual Zr, Version 1.00**, [Maria's Restaurant Technician's Guide and Workbook](#) Acca, Donald Prather, 2017-09-12 *Bob's House* Air Conditioning Contractors of America, 2007 This case study was written to assist you

in understanding the ACCA residential HVAC design process Residential load calculations HVAC equipment selection HVAC duct sizing and air distribution testing adjusting and balancing are all discussed in a simple fashion suitable for the lay person and expert alike *Heating, Ventilation, Air Conditioning, and Refrigeration Licensing and Testing Requirements Study* Washington (State). Legislature. Joint Legislative Audit and Review Committee, Eric Thomas, Ruta Fanning, 2005

HVAC William H. Rowe, 1994 Crucial information for mechanical engineers or contractors facilities managers architects and real estate developers who need to understand the new HVAC to make informed decisions Hundreds of easy to follow illustrations and examples show how to make the best most cost effective choices among the many available options This is essential information whether you are investing in a new installation or assessing operation and maintenance efficiencies With up to date guidance on environmental standards and regulations new technology and code changes for both HVAC retrofit and new construction Analysis and Design of Heating, Ventilating, and Air-Conditioning Systems, Second Edition Herbert W. Stanford III, Adam F. Spach, 2019-04-01 Analysis and Design of Heating Ventilating and Air Conditioning Systems Second Edition provides a thorough and modern overview of HVAC for commercial and industrial buildings emphasizing energy efficiency This text combines coverage of heating and air conditioning systems design with detailed information on the latest controls technologies It also addresses the art of HVAC design along with carefully explained scientific and technical content reflecting the extensive experience of the authors Modern HVAC topics are addressed including sustainability IAQ water treatment and risk management vibration and noise mitigation and maintainability from a practical point of view **HVAC Systems Design Handbook** Roger W. Haines, C. Lewis Wilson, 1994 The all in one book that will help identify new solutions in HVAC systems applications Table of Contents HVAC Engineering Fundamentals Design Procedures Load Calculations Design Procedures General Concepts for Equipment Selection Air Handling Systems Fluid Handling Systems Automatic Controls Cooling Heating Air Handling Electrical Features of HVAC Systems Design Documentation and Follow Up Technical Report Writing and Specifications Writing Index Illustrations *Designing Forced-Air HVAC Systems*, 2010 This guide explains proper calculation of heating and cooling design loads for homes used to calculate for the home using the protocols set forth in the latest edition of the Air Conditioning Contractors of America's ACCA Manual J currently the 8th edition ASHRAE 2009 Handbook of Fundamentals or an equivalent computation procedure Bob's House Acca, 2007-05-01 A case study for understanding the residential HVAC design process as described in procedures from the Air Conditioning Contractors of America The book begins with the building plans and follows the process through completion of the system design Appendices explore what would happen to Bob's house if he were in a different city or if his builder had used different building materials and other scenarios Aimed at people who need to better understand proper HVAC system design such as builders code officials contractors and others

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