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## Hvac manual j programs

The entire house bar load or room from the room rhvac load is available in both an online and desktop version. The desktop version has a one-time fee and works on all Windows computers. Rhvac Online is subscription-based and works on all computers, tablets and smartphones with an internet connection. Electronic and computer versions can import and export project files from each other. Both versions calculate maximum heating and cooling loads (both bar and room by room) for residential buildings and some light commercial applications according to manual J, D, and s ACCA. Both versions of Rhvac include a full ACCA Manual D conductor resizing capability and a full selection of Manual S equipment. Data can be manually imported or downloaded automatically from a floor plan designed with the optional drawing board program (available only within the Rhvac desktop). The heat transfer multipliers (HTM values) for all walls, windows, doors and roofs mentioned in Manual J are automatically searched by the software as required. Additional building materials are easily added as well. Weather data planning for over 2,000 cities is built into the software. Additionally, the user can review existing weather data and add more data as desired. Drag and drop zone control is provided through the powerful and graphic Project Explorer feature of Rhvac Desktop. Zone cfm settings are automatically treated by the software as needed. The equipment can be selected from AHRI databases included at no extra charge. Full reports list general project data, equipment information, overall building load summary, detailed room load calculations, and a room load summary for each zone and system complete with heating and cooling CFM prices. You can also print color graphic bar charts and pie charts (Desktop Only). Other features in both Rhvac versions include glass shading, ventilation air, equipment loads, and default room elements. Advanced features on the Rhvac desktop include full rotation or mirroring of the entire building, and the ability to share data with the account of materials, energy control, proposal manufacturer, EnergyPro, energy meter, REM/rate, Ekotrope, rescheck, and energy star. Calculations Rhvac Calculation Method performed per ACCA Manual J 8th Edition, Version 2, ACCA Manual D, and ACCA Manual S. Rhvac is an ACCA approved Manual J, Manual D and S computer program. Elite Software is a technical software partner with ACCA. Purchase Options Product Program Type Manual J, D & S License Type Price Purchase Rhvac 9 Desktop J D S Permanent \$499 Rhvac 9 Upgrade 8 to 9 Desktop J D S Permanent \$370 Rhvac 9 Combo with Boat Design and Graphic Manual D Ductsize Desktop J D S Permanent \$899 Rhvac 9 (I Have Rhvac Online) Desktop J D S Permanent \$939 Rhvac Online (I Don't Have Rhvac 9) Online J D S 1 Year \$ 239 Rhvac Online (I have Rhvac 9) online J D S 1 year \$149 Manual J Computer online J 1 year \$149 Manual D Ductsize Online D 1 year \$89 Manual S S Online S 1 year \$49 Powered by ACCA Manual D (Ductwork Design) Rhvac can help you in various ways about the size of the pipeline. For those who don't want to enter full details about a pipeline system, Rhvac Desktop can still suggest the number of registries required for each room, the size of the runout duct leading to each registry, and the original size of the main trunk duct. For example, if a family room is estimated to require 200 CFMs, Rhvac will propose two registers for the delivery of 100 CFMs each. And if flex conductor was fixed, Rhvac would spin the ductulator for you and calculate using the equal friction method that each conductor should be 6 in diameter. And if the project needs 1200 CFMs in total, Rhvac knows that the first part of the main trunk must carry so much air and will calculate the main trunk size. Automatically, for each project, the Rhvac Desktop will tell you the runout duct sizes and the original size of the main trunk. All you have to do is say what materials (steel, ductboard, or flex duct) are used for trunk and runout ducts. You get lots of pipeline information with minimal input required. If you want to do a full analysis of the D pipeline system and include each pipeline segment and placement in the project, both Rhvac Desktop and Rhvac Online include Table Manual D Ductsize. This is an import process in table format, as shown here, where you can either insert your entire pipeline system or individual conductors. This unique tool includes a powerful Mounting Selector that makes it easy to choose from hundreds of accessories from manual ACCA D. Manual D Ductsize Online For those who do not need the full Rhvac Online J, D, and S capabilities but still want a low cost online manual D analysis tool, Manual D Ductsize Online is the product for you. Manual D Ductsize Online is simply Rhvac Online with only the Tabular Manual D features enabled. For those who want to make a graphical manual D resolution, consider adding the table design options and D Ductsize manual graphics to the Rhvac Desktop. Drawing board and graphic manual D duct size The basic version of Rhvac Desktop and Rhvac Online provide complete manual J load calculations and manual D size conductor using a simple manual input panel input process. Rhvac Online is designable, and the basic version of Rhvac Desktop can only be designed at the demo level. To be able to design floor plans and have pipeline sections placed automatically and costing a plan, you need to activate drawing board and D Ductsize graphical manual modules on the Rhvac desktop. These modules are already through the basic Rhvac Desktop, but they work at a demonstration level that limits the size of the building and the number of duct sections that can be designed. Once these modules are activated, you can design and calculate any size floor plan desired with any number of pipeline sections required. See the sample design here. Start with full design capability or just basic Rhvac? An important feature of Rhvac Desktop is how well it works in manual entry or graphics entry mode. Those new to computerized load calculations often wonder if they should start with Rhvac manual input versions or go ahead and start with Rhvac desktop and its graphical options such as drawing board and D Ductsize graphic manual. It's easier to learn a manual data entry system where you type the dimensions of your room into from a design system, because a design system (regardless of supplier) includes all the additional concepts of computer-assisted syntax (CAD), such as layers, sheets, scales, grid snap and more. Learning both Manual J and CAD concepts all at once is harder than just learning Manual J input processes. If there is no immediate need to create plans, then it is easier and less initial expense to start with Rhvac Online or the basic Rhvac Desktop software and then add to the design features as you go along. If you start with the basic Rhvac desktop and then add drawing board later, you can make use of a special drawing board feature that can convert a manual input project into a project-based design, as shown in this video. What if you need to create plans right away with your calculations, you can learn all this at once? Yes, many people are able to learn the design system using only the user manuals and free videos on the website. But training can be very useful if you want to learn as quickly as possible. See this page for a list of companies that provide classroom training for Elite Software, and check this web site if you are interested in web based training using GoToMeeting. So, what should you start with? If you need designs right away, take advantage of the Rhvac desktop, board design, and graphic manual D Ductsize discounted combo price of \$899. If you don't need plans right away, but want to save \$98 over the long haul, still consider using the discounted trading combo. After all, you don't need to learn the advanced CAD features right away with the combo if you don't need to. You can still only use the basic Rhvac Desktop to get started with even if you buy the combo. If you don't need plans right away and/or the money is tight, go with either Rhvac Basic Desktop for \$499 or Rhvac Online for \$239 a year. You will still be able to make full manual J loads, full manual D pipeline resizing, manual selection of S equipment, and sales suggestions. Plus you can add to the drawing board and graphic manual D to Rhvac Desktop in any convenient later time. Use Rhvac online, Rhvac desktop or both? Rhvac Online is the basic manual input version of Rhvac Desktop formatted to run on all types of internet devices, including iPads, tablets, computers and smart phones. Rhvac Online has all the main features of rhvac desktop basic software. With Rhvac Online, projects are stored in the cloud and available to you from any internet connection. Projects can also be saved to your local computer and sent and downloaded from different computers as desired. Unlimited Unlimited files are allowed to be saved. You can use the Rhvac Online project database to back up all your projects. A designer could easily only use Rhvac Online to make all the reports of Manual J, D, and S. However, Rhvac Online cannot display as much information on one screen as Rhvac Desktop does not display and you must be connected to the internet when using Rhvac Online. The ideal situation is to have both Rhvac Desktop and Rhvac Online. This way, you can work on the same projects in the most efficient way possible, no matter where you are. Use Rhvac Online when you're in the field and want to do a quick load calculation on your phone or tablet or just control a project you've already done on your desktop. And later, access the same project on your computer at home with a large screen and keyboard using The Rhvac Desktop. Rhvac Online enables you to make projects completely from scratch or simply review and edit projects you've already done elsewhere. It can even load programs that became graphics and let you review and edit all the items that are non-graphic and download it back down as well. Rhvac

Online enables you to access all your projects anywhere and anytime you can get on a web connected computer or mobile device. Rhvac Online is extremely convenient for the HVAC professional who wants all his projects at his disposal at all times, along with the ability to review, edit, and calculate new results. Basic sales suggestions included at no extra charge on Rhvac Desktop are a quick sales proposal option that is primarily used to create basic sales suggestions. This option is very simple to use, as the designer simply checks the boxes to indicate what information should be included in the statement. Standard statement text can be saved and selected for printing. The sign-in window shown here shows the simple inputs required to create the sample statement that appears after the sign-in screen. The report shown here is produced from the Quick Sales Proposal window. The basic sales proposal is not currently in Rhvac Online, but can be added in the future if there is sufficient demand. Graphic sales suggestions For those who want to create the most powerful and graphic sales suggestions possible, considering adding to Rhvac Desktop the optional Proposal Maker software for just \$299. Their Sulenc suggestion maker gives you complete control over all aspects of the appearance of a sentence. Graphics and text can be in any way you want. This kind of customization capability requires more user input than the built-in basic suggestion of Rhvac Desktop, but for those who want the most professional look possible, Suggestion Maker is the way to do it. See more details and sample suggestions here. Bill of Materials Option To estimate hardware and labor costs, consider activating the Bill of Materials module at Rhvac Desktop for only \$299. Just used with Rhvac, a designer can choose from thousands of parts and equipment items to create a detailed list of materials with me estimates of labour costs. If table drawings and the D Ductsize graphic manual are also enabled, the bom unit can automatically take off materials from Drawing Panel drawings, which are especially useful for receiving pipeline items. The BOM is not available for Rhvac Online, but may be offered in the future if there is sufficient demand. The Bill of Materials section is very strong in that it can import material catalogs from almost any vendor, so you can add thousands of new items easily at any time. In addition, reports are fully customizable with over 70 columns of data that can be released and released as needed. Know your true cost for all your projects so you can profitably price your work. See more details about the Bill of Materials unit here. Equipment selection and manual requirements S Both Rhvac and Rhvac desktops online are provided with HVAC standard performance data for all manufacturers listed with AHRI. This data covers nearly 2 million models of standard air conditioners, heat pumps, ground source heat pumps, furnaces and boilers from over 250 HVAC manufacturers. This data is updated every few months, and Rhvac automatically downloads the new equipment data files as soon as they become available. There is no cost for Rhvac users for updated equipment data. Click here to read more about extended ratings data and where to get it. AHRI data typically includes a model number, nominal capacity, SEER or other performance numbers, as well as the AHRI reference number, as appropriate. In addition, model images for some of the most popular manufacturers such as Carrier, Trane, Goodman, Lennox, Armstrong, Rheem, York, Climate Master, Waterfurnace, Florida Heat Pump and others are also included. Model data and images can be selected to appear in reports for each system in a Rhvac project. Some projects require the selection of equipment using more than just nominal evaluations, as obtained from AHRI model data. Manual S is an ACCA publication that describes how to choose suitable home heating and cooling equipment for all types of situations. It stresses the importance of using performance data sometimes called expanded rating data that documents a model's logical, latent, or heating capacity for a wide variety of operating conditions. It suggests resizing strategies that vary depending on the type of equipment used. And it provides the steps for these different strategies that include such as considering whether the stranded load is large or small compared to reasonable, whether the cost of cooling or heating is more alarming, and whether cooling comfort, heating comfort or efficiency is the most important consideration. Manual S explains how to use important techniques, such as converting latency to logical capacity when conditions permit, and includes rules on allowed oversized percentages that vary depending on climate and type of equipment. Manual S can be ordered from acca here. Both Manual J and Manual S are now included in the 2009 International Residential Code (IRC). Chapter 14 of the IRC. Heating and cooling equipment: M1401.3 Size. Heating and cooling equipment shall be of operating size with manual S ACCA based on building loads calculated by the ACCA J manual or other approved heating and cooling methodologies. Both Rhvac Desktop and Rhvac Online provide the ability to be inoculated by extensive equipment evaluations and create an equipment data report that displays Manual S selection parameters and a Manual S report that certifies that all equipment is selected according to Manual S requirements. Manual S Computer Online For those who do not need the full Rhvac Desktop or Rhvac Online J, D, and S features, but still want a low cost online manual S reference tool, Manual S Computer Online is the product for you. Manual S Computer Online is simply Rhvac Online with only manual S features enabled. International Housing Code (IRC) Many states, counties, cities and municipalities around the US are now following some version of the IRC code. The International Housing Code (IRC) is a comprehensive, autonomous residential code that creates minimum regulations for one and two family homes of three floors or less. It brings together all building, plumbing, mechanical, powered, energy and electrical supplies for single-family homes and two families. The IRC also provides a regulatory approach (i.e. a set of measures) and a performance approach (e.g. energy modelling) to determine compliance. Both Manual J and Manual S are now included in the 2009 International Residential Code (IRC). Chapter 14 of the IRC, Heating and cooling equipment: M1401.3 Size. Heating and cooling equipment shall be of operating size with manual S ACCA based on building loads calculated by the ACCA J manual or other approved heating and cooling methodologies. Use Rhvac to comply with both the requirements of Manual J and the requirements of IRC 2009 Manual S. See more about the IRC here: International Energy Saving Code (IECC) The International Energy Saving Code (IECC) encourages energy saving through efficiency in envelope design, mechanical systems, lighting systems and the use of new materials and techniques. IECC is similar to energy-related components of IRC and even refers to IRC, although both They're not always identical. Each state has its own energy code requirements. State energy codes are often based on a version of the MEC or iecc (e.g. the 1992 MEC, the 2001 IECC, etc.); although it is worth noting that some states do not have requirements or may only have an energy code as a recommended practice. To see what's next about the IRC and IECC, IECC, on the website of the Building Codes Assistance Project. Rhvac helps you comply with state energy codes by creating input files that can import energy code compliance programs such as ResCheck, Energy Gauge, and RemRate. The advantage of this feature in Rhvac is that you don't have to re-enter the data for any Rhvac project that you want to use in one of the above energy programs. Code enforcement Many states have code laws that technically cover the entire state, but often do not apply in certain areas of the state simply because of a lack of resources. Some contractors take advantage of this lack of enforcement and ignore various code points, as they believe there are no possible consequences of this. While it is true that there are not likely to be direct sanctions in a low enforcement area, it is very likely that a future problem with the building will arise that forces the owner to investigate the details of the installation. If the investigation, even years later, finds that various parts of the government code were grossly ignored at the time of installation, a breach of mechanical integrity could be invoked causing significant fines and penalties. The concept of Mechanical Integrity is a general requirement that a contractor follows all applicable standards when performing his work on equipment, piping, instruments, electrical systems, and other physical elements. Contractors who ignore their state's application of IRC and IECC codes, no matter how loosely enforced, run the risk of a future breach of mechanical integrity. Equipment comparisons and operating costs As mentioned above, both versions of Rhvac provide nice built-in equipment selection capabilities. But if you need to compare one particular model or model type with another and perform an economic analysis of operating costs, then the Energy Control program is what you need. It can import all the necessary data from both versions of Rhvac or be used autonomously. By calculating the return and return on investment, energy control is perfect to show your customers why high efficiency equipment is worth paying more for. See more details about Energy Control here. Geothermal design ground source heat pumps and direct exchange heat pumps that use geothermal energy are the most efficient HVAC units on the market today. The U.S. government is so impressed with geothermal heat pumps that a significant tax incentive is offered to help make these units more affordable. The calculation of manual J HVAC loads for buildings geothermal equipment is not done differently than for any other type of HVAC equipment. Rhvac calculates perfectly for all types of geothermal equipment. What is different about ground source heat pumps is that a loop design should also be executed. A loop is usually polyethylene tubing buried in the ground or submerged in a pond. This loop connects the heat pump to the ground or water. The length of the required in the loop is a special calculation. Elite Software offers a program called ECA (Earth AssociateEd Analysis) to calculate ground loops in horizontal, vertical, and slinky configurations. The ECA may import all necessary data from Rhvac or be used autonomously. See more details about the ECA here. Direct exchange heat pumps use copper tubing to connect the heat pump to the ground. Each manufacturer provides its own diagram for size copper loops and therefore loop resizing software is not required. Both ground sources and direct exchange heat pumps are more expensive than standard air source heat pumps. A program like Elite's Energy Audit is a great help to show customers the operating cost savings of all types of geothermal heat pumps. See more details about Energy Control here. To date with the latest manufacturing techniques Both Rhvac Desktop and Rhvac Online include a wide variety of spray foam and structurally insulated panels (SIP) roofs and walls from which to choose. These new roof and wall options make it easy to make load calculations for the growing number of homes built with these technologies. In addition, many more Windows options are included with both Versions of Rhvac over what is in the Standard Manual J Book. Book.

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