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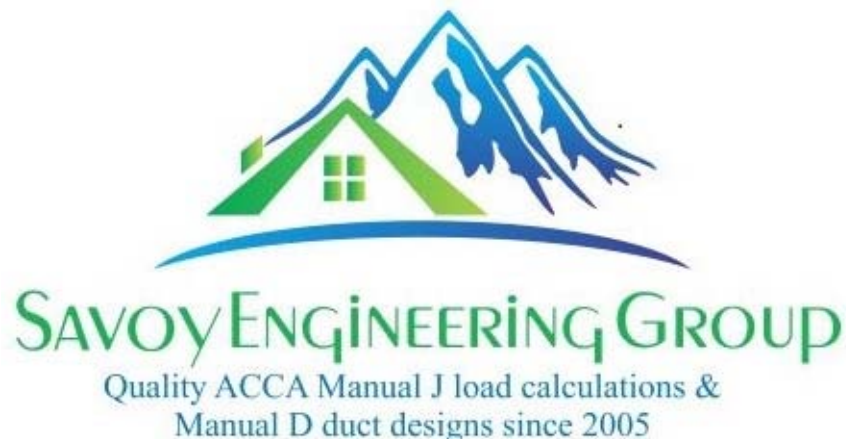
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#1 Provider of Residential ACCA Manual J HVAC Load Calculations in the United States since 2005! We only use ACCA approved WrightSoft Residential Software for all our Quality HVAC Designs - including ACCA Manual J load calculations and ACCA Manual D duct designs for residential homes

What is an ACCA Manual J load calculation? 10 steps to navigate the heat gain/heat loss load analysis process

Today most states and permit offices require an ACCA Manual J **load calculation** on all new residential construction before HVAC installation. A Manual J8 report may also be required for additions & remodels. How do you complete this ACCA Manual J line item in your projects in a stress-free manner?

ACCA Manual J *heat gain and heat loss calculations* are the accepted industry standard for calculating the individual room by room heating and cooling needs for residential homes. This is the 1st step in residential HVAC system design. When performed properly, **Manual J8** has been proven to properly size HVAC equipment without under or oversizing the heating and cooling equipment. So you now know the standard you need your report to comply with – ACCA Manual J8.



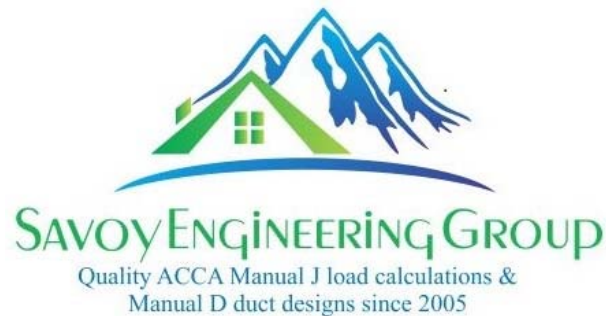
OK, now what? Most people go to Google or Bing and type in “**ACCA Manual J providers**” or something similar. How do you choose an HVAC Design company? Whether you choose Savoy Engineering Group or another company, there are several things to look at to help you with your selections:

1. What training does the **HVAC Designer** have? Have they only gone to the 2-Day class put on by the software company? Or perhaps a 1-Day seminar that covers Manual J, S & D in 8 hours? True quality heating and cooling designers have studied the Manual J, S & D theory in depth. Designers really passionate about their chosen profession will be **ACCA Certified** in Manual J, S & D design practices. The course is 26 classes and has a 250+ question final exam. The "Residential HVAC Design for Quality Installation Certification" has only been available since fall of 2012 and the ACCA certification is good for 5 years.
2. What Manual J software do they use? ACCA approves only 5 residential load calculation programs. The 2 most common are WrightSoft Right-J8 and Elite RHVAC. These softwares are very complex – you can't just load the software to your computer and start designing. This is where people who do not understand Manual J theory get into trouble because they do not recognize when a calculation does not seem “right.”
3. How long has the company been in business? Did the website just pop up last year? Or has the designer been doing designs for enough time to establish a proven track record of hundreds of installed HVAC systems without any heating or cooling issues? Do they have a proven social media presence such as LinkedIn or google+?



4. What is the HVAC designers PASS rate with permit offices, Energy Star, LEED and other green programs? Again you are looking for a residential load calculation provider with a proven track record of getting you through permit quickly the 1st time
5. Can you get hold of a real human being who will take the time to answer your Manual J questions? Or does the website just provide “fill out our form and someone may get hold of you sometime”?

6. Pricing – Many *Manual J residential HVAC designers* do not provide pricing on their websites. You get to fill out a nifty “quote form”. Some do display their pricing but it’s confusing - \$0.12 per sq ft + \$49 for 2nd level + \$129 for 2nd HVAC system. Companies that give easy to understand upfront pricing make it easy to review and you don’t have to take an extra step of filling out an online form and waiting.



7. What is the HVAC residential hvac load calculation designers turnaround time? Be wary of anyone who can do an 8,000 sq ft home overnight. This usually means they are new designers with no clients. A quality HVAC designer will offer several turnaround times depending on whether you are at a work-stoppage and need the design very quickly, or have more time and can select a slower turnaround time.
8. What other services do they offer? Does the company also do energy audits, cost analysis and other services beyond **ACCA Manual J, S & D**? Often these companies have a 2 month backlog and concentrate on their bigger clients – not the homeowner who will only use their service once.
9. Does the HVAC designer keep their **Manual J8 software** up to date? Or are they using a version that hasn’t been supported by the software developer for a while? For example, *WrightSoft Right-J8* is currently version 13. If the designer is using version 8 or 12, they are not current. Be wary of HVAC designers who aren’t willing to pay the fee to upgrade their software.
10. Can the Quality HVAC Provider also perform *ACCA Manual S equipment sizing* to ensure your heating and cooling equipment is properly sized and follows Energy Star & ACCA Manual S sizing rules? Manual S is the 2nd step in residential HVAC system design and key to proper residential HVAC sizing. Can they also perform **ACCA Manual D duct design services** following ACCA Manual T air distribution rules? Manual D is the 3rd step in residential HVAC system design.

We hope this list helps you navigate your way through the ACCA Manual J **HVAC load calculation** process with more confidence. Knowing key items and skills to look for will make all the difference in the Manual J8 process. ACCA Manual J is a very complex theory-based procedure but is critical step in how to design an HVAC system. Knowing how to select the best qualified Manual J provider will make your experience easier and ensure your HVAC system is properly sized so your family will have optimum comfort for years to come!

Warning: YOUR HVAC equipment may NOT be properly sized

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