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windows, and 3 exterior doors
occupied by 4 people, simply plug it
into this formula: $2,500 \times 25 = 62,500$
base BTU. $4 \text{ people} \times 400 = 1,600$. 12
windows $\times 1,000 = 12,000$. 3 exterior
doors $\times 1,000 = 3,000$.

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of heating and cooling BTU's needed

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for the whole house (Block Load) or a room by room load. Select a State or Province; afterwards you will then be given a choice of cities, airports or other major locations.

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ACCA Manual J load calculations are used by homeowners and HVAC contractors to select HVAC equipment capacities (ACCA Manual S) based on the Manual J room by room heating and cooling load results. Manual J8 determines your specific home ' s heating and cooling

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Right-J®: ACCA Manual J Load
Calculation Software

The ONLY way to properly size a residential HVAC system is to perform an ACCA Certified Manual J load calculation, Manual S HVAC verification and Manual D duct design; use an ACCA approved software such as WrightSoft Right-J V 19; use you home's thermal envelope r-values to calculate the Manual J heat loss and heat gain

Manual J Residential HVAC Design -
load calculations

HVAC contractors use a Manual J calculation to determine the heating and cooling loads of a home or building, and recommend the capacity of HVAC equipment needed.

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HVAC Right-Sizing Part 1: Calculating Loads

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Residential Load

Calculate and install residential heating and air conditioning systems.

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Manual J: Residential load calculation
Manual J is the protocol used for determining the amount of heating and cooling that a home requires to keep its occupants warm in the heating months and cool and dry in the cooling months.

Manual J, Manual D and Manual S:
Why Your HVAC Tech Must ...
On the horizontal axis, I plotted the conditioned floor area, in square feet. On the vertical axis, I plotted the cooling load divided by the floor area, or square feet per ton. Remember,

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when HVAC contractors use rules of thumb to size air conditioners, they usually pick a number between 400 and 600 square feet per ton.

Manual J Load Calculations vs. Rules of Thumb ...

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