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Rules of thumb listed herein should be used considering the following: A. Building loads are based on building gross square footage. B. Building loads generally include ventilation and make-up air requirements. C.

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Building loads should be calculated using the ASHRAE Handbook of Fundamen-

HVAC

In the sample office building above, you would use the 110,000 ft² value in the HVAC Rule of Thumb Calculator. If you have multiple floors, then add up all the air conditioned area for all floors and insert a single number for the HVAC Building Area value. The floor input is only used to calculate the

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thumb, and other information contained within this reference manual were assembled to aid the beginning engineer and designer in the design of HVAC systems. In addition, the experienced engineer or designer may find this manual useful as a quick design reference guide and teaching tool.

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This rule of thumb states that the MAX heating capacity required for your comfort cooling application is $1.7 \times$ the cooling load. For example, if the cooling

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required is 30 tons (360,000 btus), then the MAX heating capacity required would be 612,000 btus (1.7 x 360,000).

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Meredith, Chairman, Building Environmental Systems Technology, Penn State University. The most complete, most job-critical reference for the most frequently used HVAC design data describes HVAC Equations, Data, Rules of Thumb. Veteran HVAC designer Arthur Bell Jr.'s handy, superbly organized data bank follows the CSI MasterFormat. You'll reach for this time-saving task-simplifier dozens of times every working day for: Equations - more than 216 equations for everything from ductwork to air change rates...from steel pipe, relief valve and water

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tubing, and filters Comply
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