

PRMU20240284 - BLDG C



Simple Heating System Size: Washington State

Heating System Type:

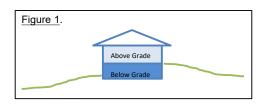
This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance.



To see detailed instructions for each section, place your cursor on the word "Instructions"





Sum of UA 907.30 **Envelope Heat Load** 46,272 Btu / Hour Sum of UA $x \Delta T$ Air Leakage Heat Load 20,430 Btu / Hour Volume x 0.6 x ∆T x 0.018 **Building Design Heat Load** 66,702 Btu / Hour Air leakage + envelope heat loss **Building and Duct Heat Load** 73,372 Btu / Hour Ducts in unconditioned space: sum of building heat loss x 1.10 Ducts in conditioned space: sum of building heat loss x 1 Maximum Heat Equipment Output 91,715 Btu / Hour Building and duct heat loss x 1.40 for forced air furnace

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