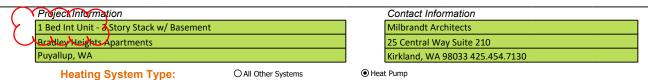


## Simple Heating System Size: Washington State

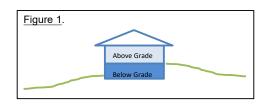
This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

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"





FULL SIZED LEDGIBLE COLOR REPORT IS REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS

Sum of UA	571.43	
Envelope Heat Load	29,143	Btu / Hour
Sum of UA $x \Delta T$		
Air Leakage Heat Load	13,463	Btu / Hour
Volume x 0.6 x ΔT x 0.018		
<b>Building Design Heat Load</b>	42,606	Btu / Hour
Air leakage + envelope heat loss		
Building and Duct Heat Load	46,867	Btu / Hour
Ducts in unconditioned space: sum of buildi	ng heat loss x	1.10
Ducts in conditioned space: sum of building	heat loss x 1	
Maximum Heat Equipment Output	58,583	Btu / Hour
Building and duct heat loss x 1.40 for forced	d air furnace	

Building and duct heat loss x 1.25 for heat pump

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