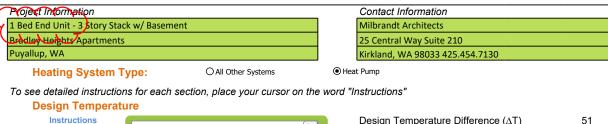


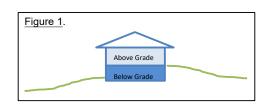
Simple Heating System Size: Washington State

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.







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

Sum of UA	712.89	
Envelope Heat Load	36,357	Btu / Hour
Sum of UA $x \Delta T$		
Air Leakage Heat Load	13,839	Btu / Hour
Volume x $0.6 \times \Delta T \times 0.018$		
Building Design Heat Load	50,196	Btu / Hour
Air leakage + envelope heat loss		
Building and Duct Heat Load	55,216	Btu / Hour
Ducts in unconditioned space: sum of buildir	ng heat loss x	1.10
Ducts in conditioned space: sum of building	heat loss x 1	
Maximum Heat Equipment Output	69,020	Btu / Hour
Building and duct heat loss v 1 40 for forced	air furnace	

Building and duct heat loss x 1.25 for heat pump