

REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL **INSPECTIONS**

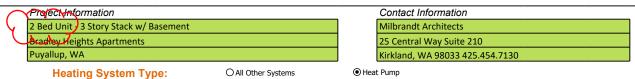
FULL SIZED LEDGIBLE COLOR REPORT IS

51

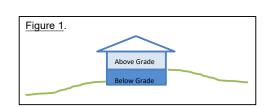
Simple Heating System Size: Washington State

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.







	Sum of UA	931.42	
	Envelope Heat Load	47,503	Btu / Hour
	Sum of UA $\times \Delta T$		
	Air Leakage Heat Load	20,430	Btu / Hour
	Volume $\times 0.6 \times \Delta T \times 0.018$		
	Building Design Heat Load	67,933	Btu / Hour
	Air leakage + envelope heat loss		
	Building and Duct Heat Load	74,726	Btu / Hour
Ducts in unconditioned space: sum of building heat loss x 1. Ducts in conditioned space: sum of building heat loss x 1			1.10
	Maximum Heat Equipment Output	93,407	Btu / Hour
	Building and duct heat loss x 1.40 for forced air furnace		

Building and duct heat loss x 1.25 for heat pump