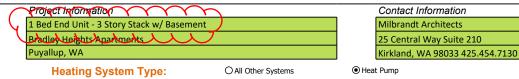
## PRMU20240283 BLDG D



## Simple Heating System Size: Washington State

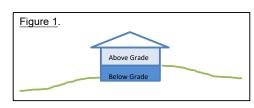
This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

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 ARE 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 x ΔT x 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 building heat loss x Ducts in conditioned space: sum of building heat loss x 1			1.10
	Maximum Heat Equipment Output	69,020	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

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