

PRMU20240282 BLDG E



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.

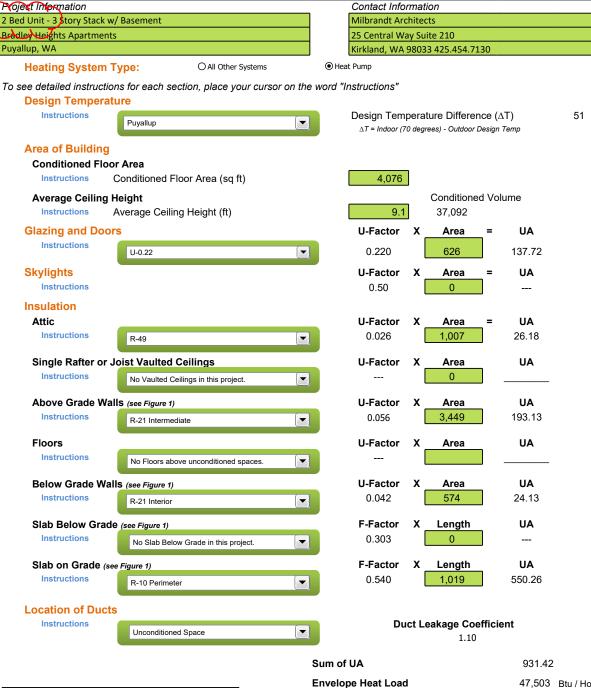


Figure 1.

Above Grade

Below Grade

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

47,503 Btu / Hour Sum of UA x AT Air Leakage Heat Load 20,430 Btu / Hour Volume x 0.6 x ∆T x 0.018 67,933 Btu / Hour **Building Design Heat Load** Air leakage + envelope heat loss **Building and Duct Heat Load** 74,726 Btu / Hour Ducts in unconditioned space: sum of building heat loss x 1.10 Ducts in conditioned space: sum of building heat loss x 1 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