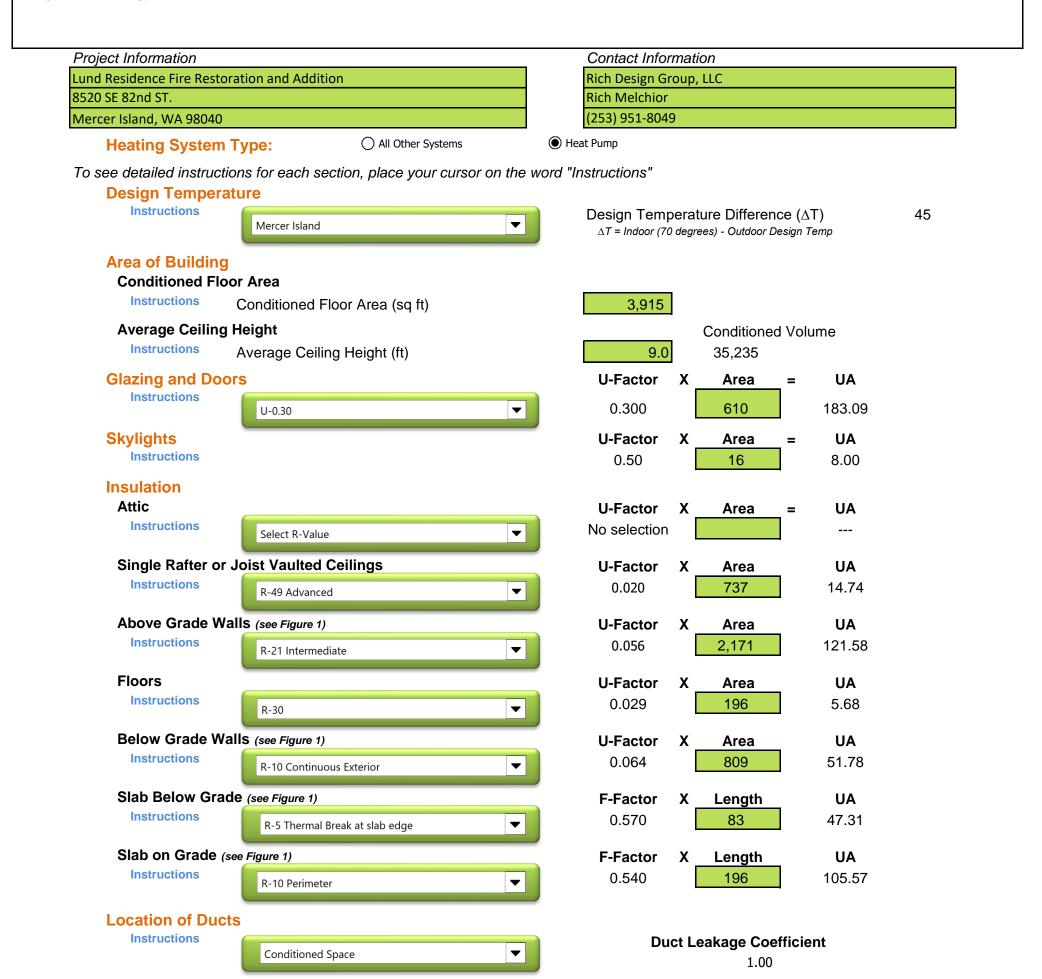
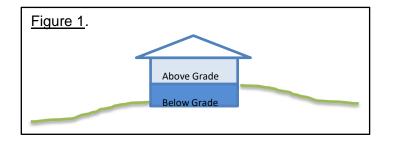
Simple Heating System Size: Washington State

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

Envelope Heat Load Sum of $UA \times \Delta T$ Air Leakage Heat Load Volume $\times 0.6 \times \Delta T \times 0.018$

Building Design Heat Load Air leakage + envelope heat loss

Building and Duct Heat Load

537.75

24,199 Btu / Hour

17,124 Btu / Hour

41,323 Btu / Hour

41,323 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 51,653 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

