Simple Heating System Size: Washington State

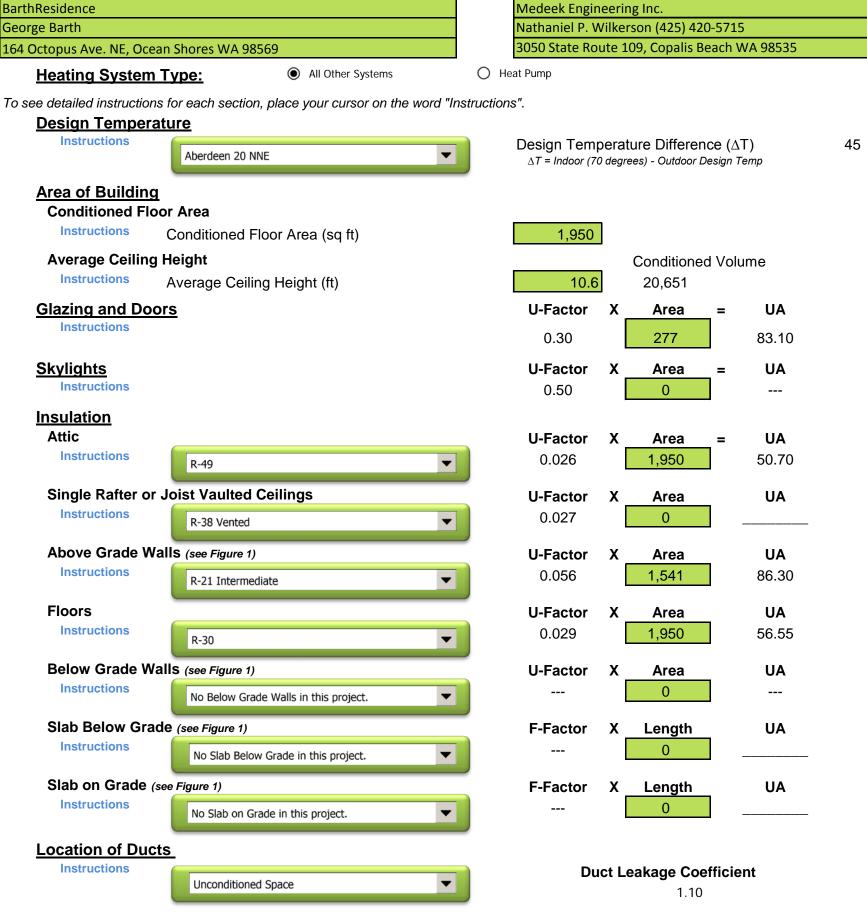
Project Information

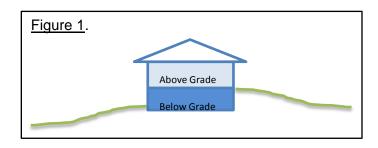
This heating system sizing calculator is based on the Prescriptive Requirements of the 2012 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

The glazing (window) and door portion of this calculator assumes the installed glazing and door products have an area weighted average U-factor of 0.30. The incorporated insulation requirements are the minimum prescriptive amounts specified by the 2012 WSEC.

Please fill out all of 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 call the WSU Energy Extension Program at (360) 956-2042 for assistance.

Contact Information





Sum of UA	276.65	
Envelope Heat Load Sum of $UA \times \Delta T$	12,449	Btu / Hour
Air Leakage Heat Load Volume X 0.6 X \(\Delta T X \).018	10,036	Btu / Hour
Building Design Heat Load Air Leakage + Envelope Heat Loss	22,485	Btu / Hour
Building and Duct Heat Load Ducts in unconditioned space: Sum of Building Heat Loss X 1 Ducts in conditioned space: Sum of Building Heat Loss X 1	•	Btu / Hour
Maximum Heat Equipment Output	34,627	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