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.

But Set Set Strip Any Udd Commdore Way, #201, Seattle, WA 38199 Meter Island, WA 980401 Meter Island, WA 980401 Heating System Type: All Otter Systems The seated instructions of each section, place your cursor on the word "Instructions" Design Temperature Difference (AT) Af Area of Building Seattle: Sea Tac AP Design Temperature Difference (AT) Af Area of Building Outlet Seattle: Sea Tac AP Conditioned Volume 7.1 * Mark (70 degreed) - Outlet Design Temp Af Area of Building Conditioned Floor Area Support Conditioned Volume 7.1 * Mark (70 degreed) - Outlet Design Temp Af Area of Building Conditioned Volume 7.1 * Mark (70 degreed) - Outlet Design Temp Af Skylights Design Temperature Difference (AT) Af Af Instructions Conditioned Volume 7.1 * Mark (70 degreed) - Outlet Design Temp Af Mice U-0.28 U-0.28 U-Factor X Area UA Instructions No Vaulted Ceilings U-Factor X Area UA Instructions R-21 Interror U-Factor X Area UA Stab Below Grade Walls (see Figure 1) U-Factor X Area UA UA </th <th>Project Information</th> <th>Contact Information</th>	Project Information	Contact Information
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Hading System Type: 	Mercer Island, WA 98040	
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Figure 1. Sum of UA x ∆T	Figure 1.	Sum of UA x AT
Air Leakage Heat Load 13,476 Btu / Hour		All Learkage Πεαι Load 13,476 Btu / Hour Volume x 0.6 x ΔΤ x 0.018
Above Grade Building Design Heat Load 47,681 Btu / Hour	Above Grade	Building Design Heat Load 47,681 Btu / Hour
Air leakage + envelope heat loss	Below Grade	Air leakage + envelope heat loss
Building and Duct Heat Load 47,681 Btu / Hour		Building and Duct Heat Load 47,681 Btu / Hour
Ducts in unconditioned space: sum of building heat loss x 1.1 Ducts in conditioned space: sum of building heat loss x 1		Ducts in unconditioned space: sum of building heat loss x 1.1 Ducts in conditioned space: sum of building heat loss x 1
Maximum Heat Equipment Output 66,754 Btu / Hour		Maximum Heat Equipment Output 66,754 Btu / Hour
Building and duct heat loss x 1.40 for forced air fumace		Building and duct heat loss x 1.40 for forced air fumace Building and duct heat loss x 1.25 for heat nump

(07/01/13)