

Simple Heating System Size: Washington Stat

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

ill be calculated for you. If you do not see the selection ode@energy.wsu.edu or (360) 956-2042 for assistance	
Project Information	Contact Information
1 Bed End Unit - 3 Story Stack	Milbrandt Architects
Bradley Heights Apartments Puyallup, WA	25 Central Way Suite 210 Kirkland, WA 98033 425.454.7130
Heating System Type: OAll Other Sy	
To see detailed instructions for each section, place you Design Temperature	
Instructions	
Area of Building	
Conditioned Floor Area	
Instructions Conditioned Floor Area (sq ft)	2,136
Average Ceiling Height	Conditioned Volume
Instructions Average Ceiling Height (ft)	9.1 19,438
Glazing and Doors	U-Factor X Area = UA
Instructions U-0.22	▼ 0.220 357 78.54
Skylights	U-Factor X Area = UA
Instructions	0.50 0
Insulation	
Attic	U-Factor X <u>Area</u> = UA
Instructions R-49	▼ 0.026 825 21.45
Single Rafter or Joist Vaulted Ceilings	U-Factor X Area UA
Instructions No Vaulted Ceilings in this project.	
Above Grade Walls (see Figure 1)	U-Factor X Area UA
Instructions R-21 Intermediate	▼ 0.056 2,624 146.96
Floors	U-Factor X Area UA
Instructions No Floors above unconditioned sp	naces. 🔽
Below Grade Walls (see Figure 1)	U-Factor X Area UA
Instructions R-21 Interior	0.042
R-21 Interior	
Slab Below Grade (see Figure 1)	F-Factor X Length UA
Instructions No Slab Below Grade in this proje	act. 0.303 b
Slab on Grade (see Figure 1)	F-Factor X Length UA
Instructions R-10 Perimeter	0.540 67 36.18
Location of Ducts	
Instructions Unconditioned Space	Duct Leakage Coefficient
	1.10
	Sum of UA 283.13
	Envelope Heat Load 14,439 Btu / Hou
Figure 1.	Sum of UA x ∆T Air Leakage Heat Load 10,706 Btu / Hou
	Volume x $0.6 \times \Delta T \times 0.018$
Above Grade	Building Design Heat Load 25,146 Btu / Hou Air leakage + envelope heat loss

City of Puyallup Building ACCEPTED Mortgomery 05/10/2024 2:3647 PM

 Maximum Heat Equipment Output
 34,575
 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
 Btu / Hour