

Design Indoor Cooling Temp. : 75 °F

Design Indoor Heating Temp. : 70 °F

Design Outdoor Cooling Temp. : 86 °F

Design Outdoor Heating Temp. : 27 °F

Temp. Difference Cooling : 11°F

Area: Portland Airport, OR

Temp. Difference Heating : 43°F

Indoor Humidity: 50 Grains difference: 0

Front Door Orientation South

Whole House Load Calculator

TD: Cool: 11°F Heat: 43°F	Sq. ft. - types 1 and 2	shading	Sq. ft. - types 1 and 2	shading	Sq. ft. - types 1 and 2	Sq. ft.
Outside Wall: North	1: 198 2:	Windows x	1: 10 2:	Glass Doors x	1: 2:	Doors
Outside Wall: South	1: 143 2: 55	Windows l	1: 2:	Glass Doors l	1: 2:	Doors 21
Outside Wall: E & W	1: 510 2:	Windows l	1: 78 2:	Glass Doors l	1: 2:	Doors
Outside Wall: NE & NW	1: 2:	Windows x	1: 2:	Glass Doors x	1: 2:	Doors
Outside Wall: SE & SW	1: 2:	Windows l	1: 2:	Glass Doors l	1: 2:	Doors
Sky Lights	N: S:	E-W:	NE-NW:	SE-SW:		
Floor - (linear ft. if slab)	1: 784 2:	Basement	Walls-above grade:	below grade:	sq. ft.	
Ceiling	1: 784 2:	Basement	Floor --	width 23ft. or	feet below grade: 2 ft.	
Number of: Appliances	2	Fireplaces	0			
Number of People	2	Fresh air	recommended: 7cfm →	40	CFM	

Conditioned - Sq. ft.:	784	Cubic Ft.:	6272	Construction:	average	Duct system:	condition R-2 good
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Calculate Load	Total Btu's Cooling	Sensible Load	Latent Load	Total Btu's Heating
	11577	11177	400	13276

Btu breakdown

	Sensible	Latent	Heating
walls	1030		3150
windows	5406		2157
ceilings	387		978
doors	265		542
floors	341		1542
appliances	2400		
people	460	400	
glass doors	0		0
skylights	0		0
basement walls	0		0
basement floor	0		0
infiltration	405	0	3016
fresh air	484	0	1892
duct load	0	0	0
Totals	11177	400	13276

Structure types

Outside Walls 1: Siding or Stucco R15 insulation
 Outside Walls 2: Brick-no insulation w/R4 board
 Windows 1: double pane no internal shade
 Windows 2:
 Glass Doors 1:
 Glass Doors 2:
 Floors 1: closed or vented crawl R-15 insulation
 Floor 2:
 Ceiling 1: Ceiling under roof joists R-38
 Ceiling 2:
 Doors: Metal
 Skylights:
 Basement Walls:
 Basement Floor:
 Win ht.: 3' 3" Overhang: 1' Top to overhang: 2'