

Design Indoor Cooling Temp. : 75 °F

Design Outdoor Cooling Temp. : 88 °F

Temp. Difference Cooling : 13°F

Indoor Humidity: 50 Grains difference: 24

Anthony Duris

250 High Range Road

Area: Manchester Grenier Air Force Base, NH

Front Door Orientation West

Design Indoor Heating Temp. : 65 °F

Design Outdoor Heating Temp. : -3 °F

Temp. Difference Heating : 68°F

Whole House Load Calculator

TD:Cool:13°F Heat:68°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: 176	2:	Windows x	1: 9	2:	Glass Doors x	1:	2:	Doors
Outside Wall: South	1: 176	2:	Windows U	1: 18	2:	Glass Doors U	1:	2:	Doors
Outside Wall: E & W	1: 832	2:	Windows U	1: 113	2:	Glass Doors U	1: 84	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 U	1:	2:	Glass Doors U	1:	2:	Doors
Sky Lights	N:	S:	E-W:	NE-NW:	SE-SW:				
Floor - (linear ft. if slab)	1: 1100	2:	Basement	Walls-above grade: 888	below grade: 296	sq. ft.			
Ceiling	1: 1100	2:	Basement	Floor -- 1100	width 23ft. or	feet below grade: 2 ft.			
Number of: Appliances	4	Fireplaces 0							
Number of People	3	Fresh air	recommended: 70cfm →	CFM					
Conditioned - Sq. ft.:	2200	Cubic. Ft.:	17600	Construction:	good	Duct system:			
Calculate Load		Total Btu's Cooling 27609		Sensible Load 26482		Latent Load 1127		Total Btu's Heating 36872	

Btu breakdown

	Sensible	Latent	Heating
walls	1878		5940
windows	10483		8568
ceilings	2090		2842
doors	0		0
floors	0		0
appliances	4800		
people	690	600	
glass doors	4939		4684
skylights	0		0
basement walls	1140		7991
basement floor	0		2020
infiltration	461	527	4827
fresh air	0	0	0
duct load	0	0	0
Totals	26482	1127	36872

Structure types

Outside Walls 1: Siding or Stucco R13 insulation
 Outside Walls 2:
 Windows 1: single pane no internal shade
 Windows 2:
 Glass Doors 1: single pane french door
 Glass Doors 2:
 Floors 1:
 Floor 2:
 Ceiling 1: Ceiling under attic space R-25
 Ceiling 2:
 Doors:
 Skylights:
 Basement Walls: block brick or concrete - R13 insulation
 Basement Floor: no insulation underneath
 Win ht.: 3' 6" Overhang: 1' Top to overhang: 1'