

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. : 70 °F

Design Outdoor Heating Temp. : -3 °F

Temp. Difference Heating : 73° F

Whole House Load Calculator

TD:Cool:13°F Heat:73°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		Sensible Load		Latent Load		Total Btu's Heating	
		23862		22735		1127		32613	

Btu breakdown

	Sensible	Latent	Heating
walls	1878		6377
windows	8659		5825
ceilings	990		1445
doors	0		0
floors	0		0
appliances	4800		
people	690	600	
glass doors	4116		3679
skylights	0		0
basement walls	1140		8578
basement floor	0		1526
infiltration	461	527	5182
fresh air	0	0	0
duct load	0	0	0
Totals	22735	1127	32613

Structure types

Outside Walls 1: Siding or Stucco R13 insulation
 Outside Walls 2:
 Windows 1: double pane no internal shade
 Windows 2:
 Glass Doors 1: double pane french door
 Glass Doors 2:
 Floors 1:
 Floor 2:
 Ceiling 1: Ceiling under attic space R-56
 Ceiling 2:
 Doors:
 Skylights:
 Basement Walls: block brick or concrete - R13 insulation
 Basement Floor: R3 or higher insulation
 Win ht.: 3' 6" Overhang: 1' Top to overhang: 1'