

20

Design Indoor Cooling Temp.: 72 °F

Gainesville Airport, FL

Design Indoor Heating Temp.: 70 °F

Design Outdoor Cooling Temp.: 92 °F

Design Outdoor Heating Temp.: 33 °F

Temp. Difference Cooling : 20°F

Temp. Difference Heating : 37°F

Indoor Humidity: 50 Grains difference: 54

- 120-20

Whole House Load Calculator

ΔTD: Cool 20 Heat 37	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: 545 2: 354	Windows x	1: 34 2: 0	Glass Doors x	1: 0 2: 0	Doors 0
Outside Wall: South	1: 428 2: 354	Windows I	1: 12 2: 6	Glass Doors I	1: 40 2: 0	Doors 0
Outside Wall: E & W	1: 800 2: 570	Windows I	1: 176 2: 76	Glass Doors I	1: 20 2: 0	Doors 0
Outside Wall: NE & NW	1: 260 2:	Windows x	1: 42 2: 0	Glass Doors x	1: 20 2: 0	Doors 0
Outside Wall: SE & SW	1: 291 2:	Windows I	1: 0 2: 0	Glass Doors I	1: 0 2: 0	Doors 20
Sky Lights	N: 0 S: 0	E-W: 0	NE-NW: 0	SE-SW: 0		
Floor - (linear ft. if slab)	1: 224 2: 142					
Ceiling	1: 1762 2: 958					Help
Number of Appliances	5					
Number of People	8					
Conditioned - Sq. ft.: 2708	Cubic Ft.: 26242	Construction: very tight	Duct system: attic R-6 very tight			
Calculate Load	Total Btu's Cooling 41957	Sensible Load 39201	Latent Load 2756	Total Btu's Heating 29763		
sq. ft. & cubic ft. calculator	length --->	width --->	height --->	Calculate		
air change calculator	cubic ft. -->	cfm's --->	changes -->	per hr.	Calculate	
inches to feet	inches	equal	feet			

To change the structure & start over click here

Btu breakdown

	Sensible	Latent	Heating
walls	4807		7940
windows	13954		7297
ceilings	4787.2		3220.48
doors	291.4		347.8
floors	81.1104		5043.37
appliances	6000		
people	1840	1600	
glass doors	2422		1776
skylights	0		0
infiltration	577	964	1958.09
duct load	4441	192	2180
Totals	39201	2756	29763

Print this page

comments or suggestions

Structure types

Outside Walls 1: Siding or Stucco R19 insulation
 Outside Walls 2: Siding or Stucco R19 insulation
 Windows 1: double pane - blinds
 Windows 2: double pane - blinds
 Glass Doors 1: double pane no internal shade
 Glass Doors 2: double pane no internal shade
 Floors 1: Concrete slab R-5 edge insulation
 Floor 2: closed or vented crawl R-30 insulation
 Ceiling 1: Ceiling under attic space R-30
 Ceiling 2: Ceiling under attic space R-30
 Doors: Wood hollow core
 Skylights:



© copyright: 2011 Ocean Side Heating & Air