

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Murphy Res

Project Title:
1201073

Class 3 Rating
Registration No. 0
Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

2/1/2012

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	9.0	32.2	290 Btuh
3	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
Window Total			54(sqft)		1738 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	850	3.3	2791 Btuh
Wall Total			850		2791 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	518 Btuh
Door Total			40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	864	1.2	1018 Btuh
Ceiling Total			864		1018Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	118.0 ft(p)	43.7	5152 Btuh
Floor Total			118		5152 Btuh
Zone Envelope Subtotal:					11218 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	1.29	6912	148.6	6020 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				17237 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	17237 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17237 Btuh