

Residential System Sizing Calculation

Summary

Kathy Lastas

Project Title:
Lastas Residence

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

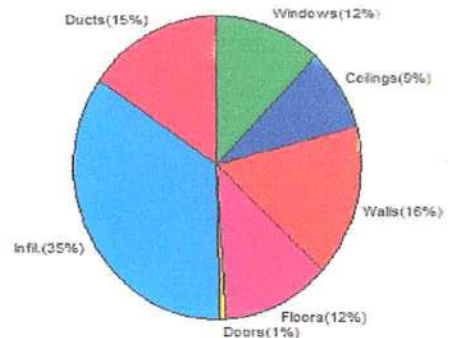
5/2/2012

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	38314 Btuh	Total cooling load calculation	45246 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	141.2 54100	Sensible (SHR = 0.75)	124.0 40575
Heat Pump + Auxiliary(0.0kW)	141.2 54100	Latent	107.9 13525
		Total (Electric Heat Pump)	119.6 54100

WINTER CALCULATIONS

Winter Heating Load (for 2597 sqft)

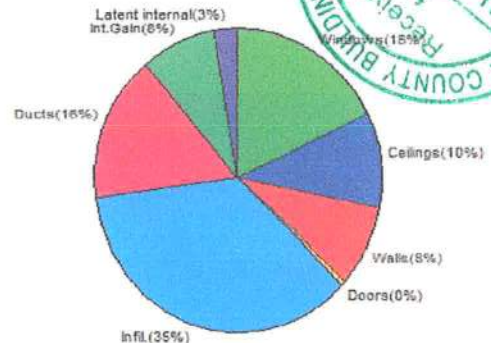
Load component		Load	
Window total	421 sqft	4668	Btuh
Wall total	1910 sqft	6273	Btuh
Door total	20 sqft	259	Btuh
Ceiling total	2829 sqft	3333	Btuh
Floor total	See detail report	4595	Btuh
Infiltration	329 cfm	13325	Btuh
Duct loss		5862	Btuh
Subtotal		38314	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		38314	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2597 sqft)

Load component		Load	
Window total	421 sqft	8104	Btuh
Wall total	1910 sqft	3840	Btuh
Door total	20 sqft	196	Btuh
Ceiling total	2829 sqft	4684	Btuh
Floor total		170	Btuh
Infiltration	288 cfm	5357	Btuh
Internal gain		3780	Btuh
Duct gain		6582	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		32712	Btuh
Latent gain(ducts)		815	Btuh
Latent gain(infiltration)		10519	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		12534	Btuh
TOTAL HEAT GAIN		45246	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 5/2/12

EnergyGauge® FLRCPB v4.5.2

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Kathy Lastas

Project Title:
Lastas Residence

Code Only
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Climate: North

Lake City, FL 32025-

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

5/2/2012

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.30	N	30.0		11.1	333 Btuh
2	2, Clear, Metal, 0.30	N	4.0		11.1	44 Btuh
3	2, Clear, Metal, 0.30	N	28.0		11.1	311 Btuh
4	2, Clear, Metal, 0.30	N	13.3		11.1	148 Btuh
5	2, Clear, Metal, 0.30	N	6.7		11.1	74 Btuh
6	2, Clear, Metal, 0.30	N	20.0		11.1	222 Btuh
7	2, Clear, Metal, 0.30	NE	12.0		11.1	133 Btuh
8	2, Clear, Metal, 0.30	N	24.0		11.1	266 Btuh
9	2, Clear, Metal, 0.30	NW	12.0		11.1	133 Btuh
10	2, Clear, Metal, 0.30	W	12.5		11.1	139 Btuh
11	2, Clear, Metal, 0.30	S	9.0		11.1	100 Btuh
12	2, Clear, Metal, 0.30	S	3.0		11.1	33 Btuh
13	2, Clear, Metal, 0.30	SW	18.0		11.1	200 Btuh
14	2, Clear, Metal, 0.30	S	18.0		11.1	200 Btuh
15	2, Clear, Metal, 0.30	SE	18.0		11.1	200 Btuh
16	2, Clear, Metal, 0.30	S	84.0		11.1	932 Btuh
17	2, Clear, Metal, 0.30	S	8.0		11.1	89 Btuh
18	2, Clear, Metal, 0.30	W	15.0		11.1	166 Btuh
19	2, Clear, Metal, 0.30	S	45.0		11.1	500 Btuh
20	2, Clear, Metal, 0.30	S	18.0		11.1	200 Btuh
21	2, Clear, Metal, 0.30	E	6.0		11.1	67 Btuh
22	2, Clear, Metal, 0.30	E	16.0		11.1	178 Btuh
Window Total			421(sqft)			4668 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1660		3.3	5452 Btuh
2	Frame - Wood - Adj(0.09)	13.0	250		3.3	821 Btuh
Wall Total			1910			6273 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
Door Total			20			259Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2547		1.2	3001 Btuh
2	Vented Attic/D/Shin	30.0	282		1.2	332 Btuh
Ceiling Total			2829			3333Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	5	249.0 ft(p)		16.4	4072 Btuh
2	Raised Wood - Adj	19	282.0 sqft		1.9	523 Btuh
Floor Total			531			4595 Btuh
Envelope Subtotal:						19127 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=		
Natural		0.80	24672	1910	329.0	13325 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

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Lake City, FL 32025-

5/2/2012

Ductload	(DLM of 0.181)	5862 Btuh
All Zones	Sensible Subtotal All Zones	38314 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	38314 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	38314 Btuh

EQUIPMENT

1. Electric Heat Pump	#	54100 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

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Lastas Residence

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Professional Version
Climate: North

Lake City, FL 32025-

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

5/2/2012

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.30	N	30.0		11.1	333 Btuh
2	2, Clear, Metal, 0.30	N	4.0		11.1	44 Btuh
3	2, Clear, Metal, 0.30	N	28.0		11.1	311 Btuh
4	2, Clear, Metal, 0.30	N	13.3		11.1	148 Btuh
5	2, Clear, Metal, 0.30	N	6.7		11.1	74 Btuh
6	2, Clear, Metal, 0.30	N	20.0		11.1	222 Btuh
7	2, Clear, Metal, 0.30	NE	12.0		11.1	133 Btuh
8	2, Clear, Metal, 0.30	N	24.0		11.1	266 Btuh
9	2, Clear, Metal, 0.30	NW	12.0		11.1	133 Btuh
10	2, Clear, Metal, 0.30	W	12.5		11.1	139 Btuh
11	2, Clear, Metal, 0.30	S	9.0		11.1	100 Btuh
12	2, Clear, Metal, 0.30	S	3.0		11.1	33 Btuh
13	2, Clear, Metal, 0.30	SW	18.0		11.1	200 Btuh
14	2, Clear, Metal, 0.30	S	18.0		11.1	200 Btuh
15	2, Clear, Metal, 0.30	SE	18.0		11.1	200 Btuh
16	2, Clear, Metal, 0.30	S	84.0		11.1	932 Btuh
17	2, Clear, Metal, 0.30	S	8.0		11.1	89 Btuh
18	2, Clear, Metal, 0.30	W	15.0		11.1	166 Btuh
19	2, Clear, Metal, 0.30	S	45.0		11.1	500 Btuh
20	2, Clear, Metal, 0.30	S	18.0		11.1	200 Btuh
21	2, Clear, Metal, 0.30	E	6.0		11.1	67 Btuh
22	2, Clear, Metal, 0.30	E	16.0		11.1	178 Btuh
Window Total			421(sqft)			4668 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1660		3.3	5452 Btuh
2	Frame - Wood - Adj(0.09)	13.0	250		3.3	821 Btuh
Wall Total			1910			6273 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
Door Total			20			259Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2547		1.2	3001 Btuh
2	Vented Attic/D/Shin	30.0	282		1.2	332 Btuh
Ceiling Total			2829			3333Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	5	249.0 ft(p)		16.4	4072 Btuh
2	Raised Wood - Adj	19	282.0 sqft		1.9	523 Btuh
Floor Total			531			4595 Btuh
Zone Envelope Subtotal:						19127 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=		Load
Natural		0.80	24672	1910	329.0	13325 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

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5/2/2012

Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.181)	5862 Btuh
Zone #1	Sensible Zone Subtotal	38314 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	38314 Btuh 0 Btuh 38314 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	54100 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

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Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

5/2/2012

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.30, None,0.00,N	N	1.5ft.	1ft.	30.0	0.0	30.0	19	19	578 Btuh
2	2, Clear, 0.30, None,0.00,N	N	1.5ft.	1ft.	4.0	0.0	4.0	19	19	77 Btuh
3	2, Clear, 0.30, None,0.00,N	N	1.5ft.	3ft.	28.0	0.0	28.0	19	19	540 Btuh
4	2, Clear, 0.30, None,0.00,N	N	7ft.	2ft.	13.3	0.0	13.3	19	19	257 Btuh
5	2, Clear, 0.30, None,0.00,N	N	7ft.	0.5ft.	6.7	0.0	6.7	19	19	129 Btuh
6	2, Clear, 0.30, None,0.00,N	N	7ft.	2ft.	20.0	0.0	20.0	19	19	385 Btuh
7	2, Clear, 0.30, None,0.00,N	NE	6ft.	6ft.	12.0	0.0	12.0	19	19	231 Btuh
8	2, Clear, 0.30, None,0.00,N	N	5ft.	1ft.	24.0	0.0	24.0	19	19	463 Btuh
9	2, Clear, 0.30, None,0.00,N	NW	6ft.	1ft.	12.0	0.0	12.0	19	19	231 Btuh
10	2, Clear, 0.30, None,0.00,N	W	1.5ft.	4ft.	12.5	5.6	6.9	19	19	241 Btuh
11	2, Clear, 0.30, None,0.00,N	S	1.5ft.	1ft.	9.0	9.0	0.0	19	19	173 Btuh
12	2, Clear, 0.30, None,0.00,N	S	1.5ft.	1ft.	3.0	3.0	0.0	19	19	58 Btuh
13	2, Clear, 0.30, None,0.00,N	SW	2.5ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
14	2, Clear, 0.30, None,0.00,N	S	4ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
15	2, Clear, 0.30, None,0.00,N	SE	5ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
16	2, Clear, 0.30, None,0.00,N	S	11ft.	2ft.	84.0	84.0	0.0	19	19	1619 Btuh
17	2, Clear, 0.30, None,0.00,N	S	11ft.	1ft.	8.0	8.0	0.0	19	19	154 Btuh
18	2, Clear, 0.30, None,0.00,N	W	7ft.	2ft.	15.0	15.0	0.0	19	19	289 Btuh
19	2, Clear, 0.30, None,0.00,N	S	1ft.	4ft.	45.0	45.0	0.0	19	19	867 Btuh
20	2, Clear, 0.30, None,0.00,N	S	1ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
21	2, Clear, 0.30, None,0.00,N	E	1.5ft.	1ft.	6.0	6.0	0.0	19	19	116 Btuh
22	2, Clear, 0.30, None,0.00,N	E	1.5ft.	1ft.	16.0	16.0	0.0	19	19	308 Btuh
Window Total					421 (sqft)					8104 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		1660.0		2.1		3462 Btuh		
2	Frame - Wood - Adj	13.0/0.09		250.0		1.5		377 Btuh		
Wall Total					1910 (sqft)			3840 Btuh		
Doors	Type			Area (sqft)		HTM		Load		
1	Insulated - Adjacent			20.0		9.8		196 Btuh		
Door Total					20 (sqft)			196 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0		2546.5		1.7		4217 Btuh		
2	Vented Attic/DarkShingle	30.0		282.0		1.7		467 Btuh		
Ceiling Total					2829 (sqft)			4684 Btuh		
Floors	Type	R-Value		Size		HTM		Load		
1	Slab On Grade	5.0		249 (ft(p))		0.0		0 Btuh		
2	Raised Wood - Adj	19.0		282 (sqft)		0.6		170 Btuh		
Floor Total					531.0 (sqft)			170 Btuh		
Envelope Subtotal:										16993 Btuh
Infiltration	Type	ACH		Volume(cuft)		wall area(sqft)		CFM=		Load
	SensibleNatural	0.70		24672		1910		329.0		5357 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance				Load
		6		X 230 +		2400				3780 Btuh
Sensible Envelope Load:										26130 Btuh
Duct load	(DGM of 0.252)									6582 Btuh
Sensible Load All Zones										32712 Btuh
EnergyGauge® FLRCPB V4.3.2										

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kathy Lastas

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Climate: North

Lake City, FL 32025-

5/2/2012

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	26130 Btuh
	Sensible Duct Load	6582 Btuh
	Total Sensible Zone Loads	32712 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	32712 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10519 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	815 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	12534 Btuh
	TOTAL GAIN	45246 Btuh

EQUIPMENT

1. Central Unit	#	54100 Btuh
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*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



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System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

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Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

5/2/2012

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.30, None,0.00,N	N	1.5ft.	1ft.	30.0	0.0	30.0	19	19	578 Btuh
2	2, Clear, 0.30, None,0.00,N	N	1.5ft.	1ft.	4.0	0.0	4.0	19	19	77 Btuh
3	2, Clear, 0.30, None,0.00,N	N	1.5ft.	3ft.	28.0	0.0	28.0	19	19	540 Btuh
4	2, Clear, 0.30, None,0.00,N	N	7ft.	2ft.	13.3	0.0	13.3	19	19	257 Btuh
5	2, Clear, 0.30, None,0.00,N	N	7ft.	0.5ft.	6.7	0.0	6.7	19	19	129 Btuh
6	2, Clear, 0.30, None,0.00,N	N	7ft.	2ft.	20.0	0.0	20.0	19	19	385 Btuh
7	2, Clear, 0.30, None,0.00,N	NE	6ft.	6ft.	12.0	0.0	12.0	19	19	231 Btuh
8	2, Clear, 0.30, None,0.00,N	N	5ft.	1ft.	24.0	0.0	24.0	19	19	463 Btuh
9	2, Clear, 0.30, None,0.00,N	NW	6ft.	1ft.	12.0	0.0	12.0	19	19	231 Btuh
10	2, Clear, 0.30, None,0.00,N	W	1.5ft.	4ft.	12.5	5.6	6.9	19	19	241 Btuh
11	2, Clear, 0.30, None,0.00,N	S	1.5ft.	1ft.	9.0	9.0	0.0	19	19	173 Btuh
12	2, Clear, 0.30, None,0.00,N	S	1.5ft.	1ft.	3.0	3.0	0.0	19	19	58 Btuh
13	2, Clear, 0.30, None,0.00,N	SW	2.5ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
14	2, Clear, 0.30, None,0.00,N	S	4ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
15	2, Clear, 0.30, None,0.00,N	SE	5ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
16	2, Clear, 0.30, None,0.00,N	S	11ft.	2ft.	84.0	84.0	0.0	19	19	1619 Btuh
17	2, Clear, 0.30, None,0.00,N	S	11ft.	1ft.	8.0	8.0	0.0	19	19	154 Btuh
18	2, Clear, 0.30, None,0.00,N	W	7ft.	2ft.	15.0	15.0	0.0	19	19	289 Btuh
19	2, Clear, 0.30, None,0.00,N	S	1ft.	4ft.	45.0	45.0	0.0	19	19	867 Btuh
20	2, Clear, 0.30, None,0.00,N	S	1ft.	1ft.	18.0	18.0	0.0	19	19	347 Btuh
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2	Frame - Wood - Adj	13.0/0.09		250.0		1.5		377 Btuh		
Wall Total					1910 (sqft)			3840 Btuh		
Doors	Type			Area (sqft)		HTM		Load		
1	Insulated - Adjacent			20.0		9.8		196 Btuh		
Door Total					20 (sqft)			196 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle	30.0		2546.5		1.7		4217 Btuh		
2	Vented Attic/DarkShingle	30.0		282.0		1.7		467 Btuh		
Ceiling Total					2829 (sqft)			4684 Btuh		
Floors	Type	R-Value		Size		HTM		Load		
1	Slab On Grade	5.0		249 (ft(pi))		0.0		0 Btuh		
2	Raised Wood - Adj	19.0		282 (sqft)		0.6		170 Btuh		
Floor Total					531.0 (sqft)			170 Btuh		
Zone Envelope Subtotal:										16993 Btuh
Infiltration	Type	ACH		Volume(cuft)		wall area(sqft)		CFM=		Load
	SensibleNatural	0.70		24672		1910		287.8		5357 Btuh
Internal gain	Occupants		Btuh/occupant		Appliance		Load			
	6		X 230 +		2400		3780 Btuh			
Sensible Envelope Load:										26130 Btuh
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.252)							6582 Btuh		
Sensible Zone Load										32712 Btuh

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Manual J Summer Calculations

Residential Load - Component Details (continued)

Kathy Lastas

Project Title:
Lastas Residence

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

5/2/2012

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kathy Lastas

Lake City, FL 32025-

Project Title:
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5/2/2012

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	26130 Btuh
	Sensible Duct Load	6582 Btuh
	Total Sensible Zone Loads	32712 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	32712 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	10519 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	815 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	12534 Btuh
	TOTAL GAIN	45246 Btuh

EQUIPMENT

1. Central Unit	#	54100 Btuh
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*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



Version 8
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Residential Window Diversity

MidSummer

Kathy Lastas

Lake City, FL 32025-

Project Title:
Lastas Residence

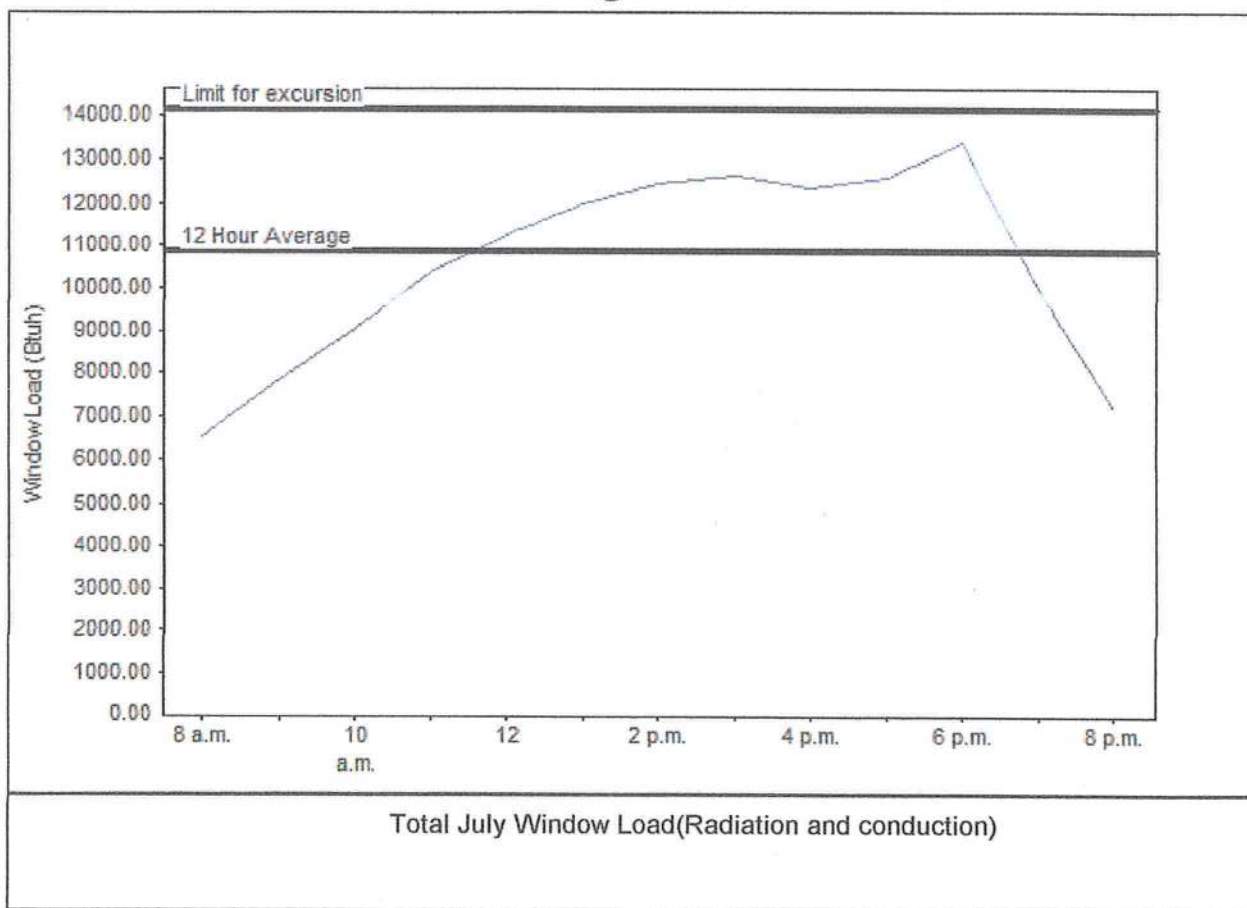
Code Only
Professional Version
Climate: North

5/2/2012

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10866 Btu
Summer setpoint	75 F	Peak window load for July	13381 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	14126 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.

This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: [Signature]

DATE: 5/2/12

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