

INPUT SUMMARY CHECKLIST REPORT

PROJECT														
Title:	Gonzalez Res				Address type:	Lot								
Building Type:	User		Bedrooms:	4		Lot #:	6							
Owner:	Ganzalez		Conditioned Area:	2378		Block/SubDivision:	Hills Of Huntstv							
Builder Home ID:			Total Stories:	1		PlatBook:								
Builder Name:	Gibraltar Contracting LLC				Worst Case:	No								
Permit Office:	Columbia County		Rotate Angle:	0		Street:								
Jurisdiction:			Cross Ventilation:	Yes		County:	Columbia							
Family Type:	Detached		Whole House Fan:	No		City, State, Zip:	Lake City, FL, 32024							
New/Existing:	New (From Plans)		Terrain:	Suburban										
Year Construct:	2026		Shielding:	Suburban										
Comment:														
CLIMATE														
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range			
<input type="checkbox"/>	FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium					
BLOCKS														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume										
<input type="checkbox"/>	1	Block1	2378	21402 cu ft										
SPACES														
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
<input type="checkbox"/>	1	1st Floor	2378	21402	Yes	8	4	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2378 sq.ft.)														
<input checked="" type="checkbox"/>	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
<input type="checkbox"/>	1	Slab-On-Grade Edge Ins	1st Floor	243.4	2378 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
ROOF														
<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
<input type="checkbox"/>	1	Hip	Composition shingles	2753 ft²	0 ft²	0.11	Medium	Y	0.96	No	0.9	No	0	30.26
ATTIC														
<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
<input type="checkbox"/>	1	Partial cathedral ceiling	Vented	300	2378 ft²	Y	N							
CEILING (Total Exposed Area = 2616 sq.ft.)														
<input checked="" type="checkbox"/>	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
<input type="checkbox"/>	1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	2615.8ft²	0.024	0.11	Wood					

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WALLS														(Total Exposed Area = 2222 sq.ft.)		
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade	
___ 1	W	Exterior	Frame - Wood	1st Floor	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0.0 %	
___ 2	S	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0.0 %	
___ 3	W	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0.0 %	
___ 4	N	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	10.0	0	20.0	0.084		0.23	0.75	0.0 %	
___ 5	W	Exterior	Frame - Wood	1st Floor	13.0	13.0	4	10.0	0	133.3	0.084		0.23	0.75	0.0 %	
___ 6	S	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	10.0	0	20.0	0.084		0.23	0.75	0.0 %	
___ 7	W	Exterior	Frame - Wood	1st Floor	13.0	9.0	10	9.0	0	88.5	0.084		0.23	0.75	0.0 %	
___ 8	S	Garage	Frame - Wood	1st Floor	13.0	12.0	0	9.0	0	108.0	0.084		0.23	0.75	0.0 %	
___ 9	W	Garage	Frame - Wood	1st Floor	13.0	25.0	0	9.0	0	225.0	0.084		0.23	0.75	0.0 %	
___ 10	S	Exterior	Frame - Wood	1st Floor	13.0	26.0	2	9.0	0	235.5	0.084		0.23	0.75	0.0 %	
___ 11	E	Exterior	Frame - Wood	1st Floor	13.0	37.0	8	9.0	0	339.0	0.084		0.23	0.75	0.0 %	
___ 12	N	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0.0 %	
___ 13	E	Exterior	Frame - Wood	1st Floor	13.0	18.0	6	10.0	0	185.0	0.084		0.23	0.75	0.0 %	
___ 14	S	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	9.0	0	72.0	0.084		0.23	0.75	0.0 %	
___ 15	E	Exterior	Frame - Wood	1st Floor	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0.0 %	
___ 16	N	Exterior	Frame - Wood	1st Floor	13.0	42.0	4	9.0	0	381.0	0.084		0.23	0.75	0.0 %	

DOORS											(Total Exposed Area = 20 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	W	Garage	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS																	(Total Exposed Area = 301 sq.ft.)		
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen			
___ 1	W	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None		
___ 2	W	3	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	2	3.00	8.00	10.5	1.0	None	None		
___ 3	W	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	7.5	1.0	None	None		
___ 4	W	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None		
___ 5	S	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.5	1.0	None	None		
___ 6	S	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None		
___ 7	E	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	1.5	1.0	None	None		
___ 8	E	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None		
___ 9	N	12	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	8.5	1.0	None	None		
___ 10E		13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	54.0	3	3.00	6.00	12.5	1.0	None	None		
___ 11E		15	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None		
___ 12N		16	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None		

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	2497	136.99	257.18	0.1438	7.0	All	21402 cu ft

GARAGE									
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation	
___ 1	608 ft²	25.3 ft²	24.0 ft²	608 ft²	63 ft	608 ft	9 ft	1	

INPUT SUMMARY CHECKLIST REPORT

MASS													
√ #	Mass Type	Area	Thickness	Furniture Fraction	Space								
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor								
HEATING SYSTEM													
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	HeatPump---- Power	Volts	Current	Ducts	Block		
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	38.8		0.00	0.00	0.00	sys#1	1		
COOLING SYSTEM													
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block				
___ 1	Central Unit	None/Single		SEER2:15.5	28.2	840	0.75	sys#1	1				
HOT WATER SYSTEM													
√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length		
___ 1	Electric	None	Garage	0.92 (0.92)	50.0 gal	40 gal	120 deg	Standard	Yes	None	12		
___ #	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits			
___ 1	No		NA	NA	NA	No	NA	NA	NA	None			
DUCTS													
√ #	Duct	-----Supply-----			-----Return-----			AHU	CFM 25	QN	AHU	HVAC #	
___ 1	Attic	R-Value	Area	Location	R-Value	Area	Leakage Type	Location	TOT OUT	OUT	SEALED	RLF	Heat Cool
___ 1	Attic	6.0	595 ft²	Attic	6.0	119 ft²	Default Leakage	Garage	(Default)	(Default)			1 1
TEMPERATURES													
Programable Thermostat: Y						Ceiling Fans: N							
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	
√	Thermostat Schedule: HERS 2006 Reference	Hours											
___	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
___	Cooling (WD)	AM 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78
___	Cooling (WEH)	AM 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
___	Heating (WD)	AM 66	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68	68 66
___	Heating (WEH)	AM 66	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68	68 66

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
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Job Information

Builder: Gibraltar Contracting LLC	Community:	Lot: 6
Address:		
City: Lake City	State: FL	Zip: 32024

Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{21402}{\text{ACH}(50)} =$ <div style="text-align: center; font-size: 2em; font-weight: bold; margin: 10px 0;">PASS</div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the *Florida Building Code, Residential*. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the ~~trade~~ *code official*. Testing shall be performed at any time after creation of all penetrations of the ~~building~~ *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Ganzalez

Project Title:
Gonzalez Res

Lake City, FL 32024

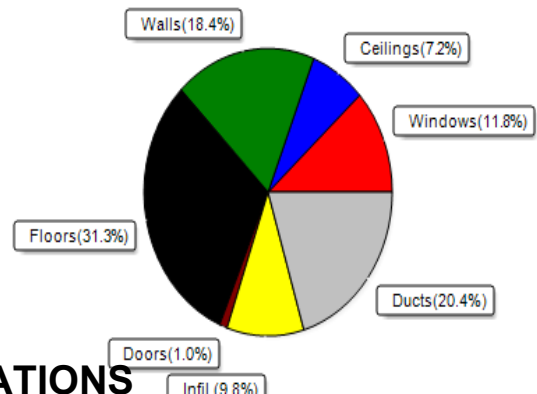
3/16/2026

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature(MJ8 99%/Cu)	33 F	Summer design temperature(MJ8 99%/Cu)	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	33916 Btuh	Total cooling load calculation	33390 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	114.4 38793	Sensible (SHR = 0.75)	76.1 21124
Heat Pump + Auxiliary(0.0kW)	114.4 38793	Latent	125.3 7041
		Total (Electric Heat Pump)	84.4 28165

WINTER CALCULATIONS

Winter Heating Load (for 2378 sqft)

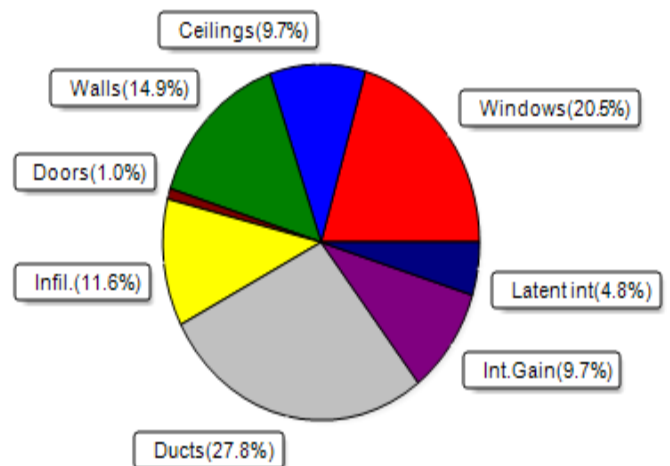
Load component	Load	
Window total	301 sqft	4009 Btuh
Wall total	1901 sqft	6244 Btuh
Door total	20 sqft	340 Btuh
Ceiling total	2616 sqft	2456 Btuh
Floor total	2378 sqft	10627 Btuh
Infiltration	82 cfm	3324 Btuh
Duct loss		6915 Btuh
Subtotal		33916 Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS		33916 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2378 sqft)

Load component	Load	
Window total	301 sqft	6848 Btuh
Wall total	1901 sqft	4967 Btuh
Door total	20 sqft	322 Btuh
Ceiling total	2616 sqft	3253 Btuh
Floor total		0 Btuh
Infiltration	62 cfm	1617 Btuh
Internal gain		3240 Btuh
Duct gain		7523 Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load		0 Btuh
Total sensible gain		27770 Btuh
Latent gain(ducts)		1771 Btuh
Latent gain(infiltration)		2249 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		1600 Btuh
Total latent gain		5620 Btuh
TOTAL HEAT GAIN		33390 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

3 / 16 / 2026

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Ganzalez

Project Title:

Gonzalez Res

Lake City, FL 32024

Building Type: User

3/16/2026

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 °F (MJ8 99%/Cu)

Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	W	15.0		13.3	200 Btuh
2	2, NFRC 0.25	TIM	0.36	W	48.0		13.3	639 Btuh
3	2, NFRC 0.25	Vinyl	0.36	W	36.0		13.3	480 Btuh
4	2, NFRC 0.25	Vinyl	0.36	W	6.0		13.3	80 Btuh
5	2, NFRC 0.25	Vinyl	0.36	S	3.0		13.3	40 Btuh
6	2, NFRC 0.25	Vinyl	0.36	S	16.0		13.3	213 Btuh
7	2, NFRC 0.25	Vinyl	0.36	E	72.0		13.3	959 Btuh
8	2, NFRC 0.25	Vinyl	0.36	E	6.0		13.3	80 Btuh
9	2, NFRC 0.25	TIM	0.36	N	24.0		13.3	320 Btuh
10	2, NFRC 0.25	Vinyl	0.36	E	54.0		13.3	719 Btuh
11	2, NFRC 0.25	Vinyl	0.36	E	15.0		13.3	200 Btuh
12	2, NFRC 0.25	Vinyl	0.36	N	6.0		13.3	80 Btuh
Window Total					301.0(sqft)			4009 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	104		3.28	340 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	18		3.28	59 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	32		3.28	105 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	20		3.28	66 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	97		3.28	320 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	20		3.28	66 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	83		3.28	271 Btuh
8	Frame - Wood	- Adj	(0.089)	13.0/0.0	108		3.28	355 Btuh
9	Frame - Wood	- Adj	(0.089)	13.0/0.0	205		3.28	673 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	217		3.28	711 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	261		3.28	857 Btuh
12	Frame - Wood	- Ext	(0.089)	13.0/0.0	56		3.28	184 Btuh
13	Frame - Wood	- Ext	(0.089)	13.0/0.0	131		3.28	430 Btuh
14	Frame - Wood	- Ext	(0.089)	13.0/0.0	72		3.28	236 Btuh
15	Frame - Wood	- Ext	(0.089)	13.0/0.0	104		3.28	340 Btuh
16	Frame - Wood	- Ext	(0.089)	13.0/0.0	375		3.28	1232 Btuh
Wall Total					1901(sqft)			6244 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Garage,	n	(0.460)		20		17.0	340 Btuh
Door Total					20(sqft)			340Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Flat ceil/D/Shing	(0.025)	38.0/0.0		2616		0.94	2456 Btuh
Ceiling Total					2616(sqft)			2456Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		243.4 ft(perim.)		43.7	10627 Btuh
Floor Total					2378 sqft			10627 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Ganzalez
Lake City, FL 32024

Project Title:
Gonzalez Res
Building Type: User

3/16/2026

	Envelope Subtotal:	23677 Btuh
Infiltration	Type Natural	Wholehouse ACH Volume(cuft) Wall Ratio CFM= 0.23 21402 1.00 82.1
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.256)	
All Zones	Sensible Subtotal All Zones	33916 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	33916 Btuh 0 Btuh 33916 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	38793 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Gonzalez

Project Title:
Gonzalez Res

Lake City, FL 32024

3/16/2026

Reference City: Gainesville, FL (Defaults)
Humidity difference: 54gr.

Temperature Difference: 24.0F(MJ8 99%/Cu)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

Window	Type*					Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	15.0	0.7	14.3	14	33	477	Btuh	
2	2 NFRC	0.25, 0.36	No	No	W	10.5f	1.0ft.	48.0	46.3	1.7	14	33	699	Btuh	
3	2 NFRC	0.25, 0.36	No	No	W	7.5ft.	1.0ft.	36.0	31.3	4.7	14	33	588	Btuh	
4	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	6.0	0.5	5.5	14	33	187	Btuh	
5	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	3.0	3.0	0.0	14	16	42	Btuh	
6	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	16.0	16.0	0.0	14	16	222	Btuh	
7	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	1.0ft.	72.0	2.9	69.1	14	33	2302	Btuh	
8	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	1.0ft.	6.0	0.5	5.5	14	33	187	Btuh	
9	2 NFRC	0.25, 0.36	No	No	N	8.5ft.	1.0ft.	24.0	0.0	24.0	14	14	334	Btuh	
10	2 NFRC	0.25, 0.36	No	No	E	12.5f	1.0ft.	54.0	54.0	0.0	14	33	751	Btuh	
11	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	1.0ft.	15.0	0.7	14.3	14	33	477	Btuh	
12	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	6.0	0.0	6.0	14	14	83	Btuh	
	Excursion													498	Btuh
	Window Total								301 (sqft)					6848 Btuh	
Walls	Type	U-Value	R-Value	Area(sqft)		HTM	Load								
			Cav/Sheath												
1	Frame - Wood - Ext	0.09	13.0/0.0	103.5	2.7	280	Btuh								
2	Frame - Wood - Ext	0.09	13.0/0.0	18.0	2.7	49	Btuh								
3	Frame - Wood - Ext	0.09	13.0/0.0	32.0	2.7	87	Btuh								
4	Frame - Wood - Ext	0.09	13.0/0.0	20.0	2.7	54	Btuh								
5	Frame - Wood - Ext	0.09	13.0/0.0	97.3	2.7	263	Btuh								
6	Frame - Wood - Ext	0.09	13.0/0.0	20.0	2.7	54	Btuh								
7	Frame - Wood - Ext	0.09	13.0/0.0	82.5	2.7	223	Btuh								
8	Frame - Wood - Adj	0.09	13.0/0.0	108.0	2.1	230	Btuh								
9	Frame - Wood - Adj	0.09	13.0/0.0	205.0	2.1	437	Btuh								
10	Frame - Wood - Ext	0.09	13.0/0.0	216.5	2.7	586	Btuh								
11	Frame - Wood - Ext	0.09	13.0/0.0	261.0	2.7	707	Btuh								
12	Frame - Wood - Ext	0.09	13.0/0.0	56.0	2.7	152	Btuh								
13	Frame - Wood - Ext	0.09	13.0/0.0	131.0	2.7	355	Btuh								
14	Frame - Wood - Ext	0.09	13.0/0.0	72.0	2.7	195	Btuh								
15	Frame - Wood - Ext	0.09	13.0/0.0	103.5	2.7	280	Btuh								
16	Frame - Wood - Ext	0.09	13.0/0.0	375.0	2.7	1015	Btuh								
	Wall Total			1901 (sqft)			4967 Btuh								
Doors	Type	Area (sqft)	HTM	Load											
1	Insulated - Garage	20.0	16.1	322	Btuh										
	Door Total		20 (sqft)	322 Btuh											
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load									
1	Vented Attic/DarkShingle/RB	0.025	38.0/0.0	2615.8	1.24	3253	Btuh								
	Ceiling Total			2616 (sqft)		3253 Btuh									
Floors	Type	R-Value	Size	HTM	Load										
1	Slab On Grade	0.0	2378 (ft-perimeter)	0.0	0 Btuh										
	Floor Total		2378.0 (sqft)	0 Btuh											
Envelope Subtotal:					15390 Btuh										

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ganzalez

Project Title:
Gonzalez Res

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

3/16/2026

Infiltration	Type Natural	Average ACH 0.17	Volume(cuft) 21402	Wall Ratio 1	CFM= 61.5	Load 1617 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	Appliance +	1400	Load 3240 Btuh
	Sensible Envelope Load:					20247 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.372)					7523 Btuh
	Sensible Load All Zones					27770 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ganzalez

Project Title:
Gonzalez Res

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

3/16/2026

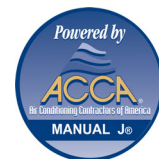
WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	20247 Btuh
	Sensible Duct Load	7523 Btuh
	Total Sensible Zone Loads	27770 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	27770 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2249 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1771 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5620 Btuh
	TOTAL GAIN	33390 Btuh

EQUIPMENT

1. Central Unit	#	28165 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value)
 (U - Window U-Factor)
 (InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
 - For Blinds: Assume medium color, half closed
 For Draperies: Assume medium weave, half closed
 For Roller shades: Assume translucent, half closed
 (IS - Insect screen: none(N), Full(F) or Half(½))
 (Ornt - compass orientation)



Version 8