

Project Name: Thomason Res		Builder Name:	
Street: 911 SW Roberts Ave		Permit Office: Columbia County	
City, State, Zip: Ft White, FL, 32038		Permit Number:	
Owner: Scott Thomason		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

1. New construction or existing		New (From Plans)	
2. Single family or multiple family		Detached	
3. Number of units, if multiple family		1	
4. Number of Bedrooms		3	
5. Is this a worst case?		No	
6. Conditioned floor area above grade (ft²)		2304	
Conditioned floor area below grade (ft²)		0	
7. Windows(136.0 sqft.)		Description Area	
a. U-Factor:		Dbl, U=0.36 136.00 ft²	
SHGC:		SHGC=0.25	
b. U-Factor:		N/A ft²	
SHGC:			
c. U-Factor:		N/A ft²	
SHGC:			
Area Weighted Average Overhang Depth:		1.386 ft	
Area Weighted Average SHGC:		0.250	
8. Skylights		Description Area	
U-Factor:(AVG)		N/A N/A ft²	
SHGC(AVG):		N/A	
9. Floor Types		Insulation Area	
a. Slab-On-Grade Edge Insulation		R= 0.0 2304.00 ft²	
b. N/A		R= ft²	
c. N/A		R= ft²	
10. Wall Types(1800.0 sqft.)		Insulation Area	
a. Frame - Wood, Exterior		R=19.0 1800.00 ft²	
b. N/A			
c. N/A			
d. N/A			
11. Ceiling Types(2534.0 sqft.)		Insulation Area	
a. Flat ceiling under att (Vented)		R=38.0 2534.00 ft²	
b. N/A			
c. N/A			
12. Roof(Comp. Shingles, Vented)		Deck R=0.0 2576 ft²	
13. Ducts, location & insulation level		R ft²	
a. Sup: Attic, Ret: Attic, AH: 1st Floor		6 576	
b.			
c.			
14. Cooling Systems		kBtu/hr Efficiency	
a. Central Unit		28.2 SEER2:15.00	
15. Heating Systems		kBtu/hr Efficiency	
a. Electric Heat Pump		38.8 HSPF2:8.80	
16. Hot Water Systems			
a. Electric		Cap: 50 gallons	
		EF: 0.920	
b. Conservation features			
		None	
17. Credits		CV, Pstat	

Glass/Floor Area:0.059	Total Proposed Modified Loads: 46.15
	Total Baseline Loads: 50.95
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.	
PREPARED BY: _____	
DATE: 6 / 16 / 2026	
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.	
OWNER/AGENT: _____	
DATE: _____	

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.	
BUILDING OFFICIAL: _____	
DATE: _____	

- Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Thomason Res			Bedrooms:	3	Address type:	Street Address						
Building Type:	User			Conditioned Area:	2304	Lot #:	---						
Owner:	Scott Thomason			Total Stories:	1	Block/SubDivision:	---						
Builder Home ID:				Worst Case:	No	PlatBook:	---						
Builder Name:				Rotate Angle:	0	Street:	911 SW Roberts Ave						
Permit Office:	Columbia County			Cross Ventilation:	Yes	County:	Columbia						
Jurisdiction:				Whole House Fan:	No	City, State, Zip:	Ft White, FL, 32038						
Family Type:	Detached			Terrain:	Suburban								
New/Existing:	New (From Plans)			Shielding:	Suburban								
Year Construct:	2026												
Comment:													
CLIMATE													
✓ Design Location	Tmy Site			Design Temp	97.5% 2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range		
___ FL, Gainesville	FL_GAINESVILLE_REGIONA			32	92	70	75	1305.5	51	Medium			
BLOCKS													
✓ Number	Name	Area	Volume										
___ 1	Block1	2304	20736 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	2304	20736	Yes	6	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2304 sq.ft.)													
✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
___ 1	Slab-On-Grade Edge Ins	1st Floor	200	2304 sqft	0.0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00		
ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Composition shingles	2576 ft²	576 ft²	0.11	Medium	Y	0.96	No	0.9	No	0	26.57
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
___ 1	Full attic	Vented	300	2304 ft²	Y	N							
CEILING (Total Exposed Area = 2534 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	2534.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1800 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	S	Exterior	Frame - Wood	1st Floor	19.0	64.0	0	9.0	0	576.0	0.061		0.23	0.75	0.0 %			
___ 2	E	Exterior	Frame - Wood	1st Floor	19.0	36.0	0	9.0	0	324.0	0.061		0.23	0.75	0.0 %			
___ 3	N	Exterior	Frame - Wood	1st Floor	19.0	64.0	0	9.0	0	576.0	0.061		0.23	0.75	0.0 %			
___ 4	W	Exterior	Frame - Wood	1st Floor	19.0	36.0	0	9.0	0	324.0	0.061		0.23	0.75	0.0 %			

DOORS												(Total Exposed Area = 40 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	S	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	E	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS															(Total Exposed Area = 136 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	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	60.0	4	3.00	5.00	1.5	1.0	None	None
___ 2	E	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	2	2.50	3.00	1.0	6.0	None	None
___ 3	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	45.0	3	3.00	5.00	1.5	1.0	None	None
___ 4	W	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.0	5.0	None	None
___ 5	W	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	2.00	5.00	1.0	6.0	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	2419	132.72	249.18	0.1438	7.0	All	20736 cu ft

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 HeatPump----	Ducts	Block			
						Entry	Power	Volt	Current		
___ 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		SEER2:15.0	28.2	840	0.75	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	1st Floor	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----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	576 ft²	Attic	6.0	115 ft²	Default Leakage	1st Floor	(Default) (Default)				1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec	
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec	
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec	
✓ Thermostat Schedule:	HERS 2006 Reference												
Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM PM	78 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 PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
___ Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 91

The lower the EnergyPerformance Index, the more efficient the home.

911 SW Roberts Ave,Ft White,FL,32038

1. New construction or existing	New (From Plans)	10. Wall Types(1800.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	1800.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	2304	11. Ceiling Types(2534.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	2534.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	2576 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	576
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.386 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	28.2	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	38.8	HSPF2:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 50 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.920	
b. N/A	R=			
c. N/A	R=	b. Conservation features		
				None
		17. Credits		CV, Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 911 SW Roberts Ave

City/FL Zip: Ft White,FL,32038



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:		
Job Information			
Builder:	Community:	Lot:	NA
Address: 911 SW Roberts Ave			
City: Ft White	State: FL	Zip: 32038	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>			
☐ 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			
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{20736}{\text{ACH}(50)} =$ PASS ☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. Method for calculating building volume: ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated			
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 <i>Florida Building Code, Residential</i>. 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), <i>Florida Statutes</i>, 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 official <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the building <i>building thermal envelope</i>. 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

Scott Thomason
911 SW Roberts Ave
Ft White, FL 32038

Project Title:
Thomason Res

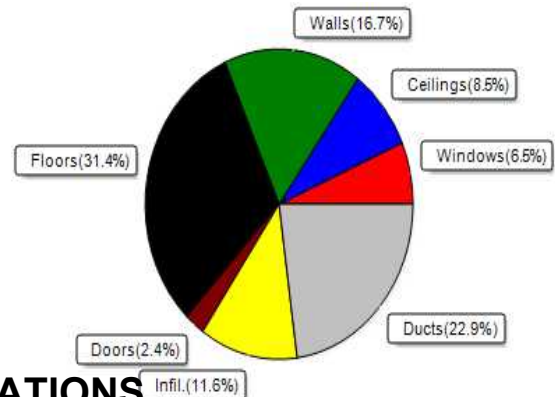
6/16/2026

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 27845 Btuh			Total cooling load calculation 26782 Btuh		
Submitted heating capacity % of calc Btuh			Submitted cooling capacity % of calc Btuh		
Total (Electric Heat Pump) 139.3 38793			Sensible (SHR = 0.75) 98.0 21124		
Heat Pump + Auxiliary(0.0kW) 139.3 38793			Latent 135.0 7041		
			Total (Electric Heat Pump) 105.2 28165		

WINTER CALCULATIONS

Winter Heating Load (for 2304 sqft)

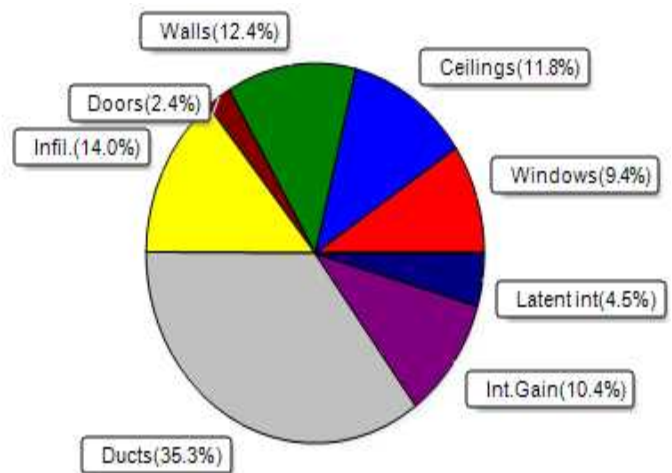
Load component	Load
Window total 136 sqft	1812 Btuh
Wall total 1624 sqft	4643 Btuh
Door total 40 sqft	681 Btuh
Ceiling total 2534 sqft	2380 Btuh
Floor total 2304 sqft	8732 Btuh
Infiltration 80 cfm	3220 Btuh
Duct loss	6378 Btuh
Subtotal	27845 Btuh
Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS	27845 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2304 sqft)

Load component	Load
Window total 136 sqft	2506 Btuh
Wall total 1624 sqft	3313 Btuh
Door total 40 sqft	644 Btuh
Ceiling total 2534 sqft	3151 Btuh
Floor total	0 Btuh
Infiltration 60 cfm	1567 Btuh
Internal gain	2780 Btuh
Duct gain	7603 Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load	0 Btuh
Total sensible gain	21565 Btuh
Latent gain(ducts)	1838 Btuh
Latent gain(infiltration)	2179 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	5218 Btuh
TOTAL HEAT GAIN	26782 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: 6 / 16 / 2026

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Scott Thomason
911 SW Roberts Ave
Ft White, FL 32038

Project Title:
Thomason Res
Building Type: User

6/16/2026

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	S	60.0		13.3	799 Btuh
2	2, NFRC 0.25	Vinyl	0.36	E	15.0		13.3	200 Btuh
3	2, NFRC 0.25	Vinyl	0.36	N	45.0		13.3	599 Btuh
4	2, NFRC 0.25	Vinyl	0.36	W	6.0		13.3	80 Btuh
5	2, NFRC 0.25	Vinyl	0.36	W	10.0		13.3	133 Btuh
Window Total					136.0(sqft)			1812 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	496		2.86	1418 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	289		2.86	826 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	531		2.86	1518 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	308		2.86	881 Btuh
Wall Total					1624(sqft)			4643 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		17.0	340 Btuh
2	Insulated - Exterior, n		(0.460)		20		17.0	340 Btuh
Door Total					40(sqft)			681Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Flat ceil/D/Shing		(0.025)	38.0/0.0	2534		0.94	2380 Btuh
Ceiling Total					2534(sqft)			2380Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	200.0 ft(perim.)		43.7	8732 Btuh
Floor Total					2304 sqft			8732 Btuh
Envelope Subtotal:								18247 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural		0.23	20736	1.00	79.5		3220 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.297)							6378 Btuh
All Zones	Sensible Subtotal All Zones							27845 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Scott Thomason
911 SW Roberts Ave
Ft White, FL 32038

Project Title:
Thomason Res
Building Type: User

6/16/2026

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	27845 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	27845 Btuh

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

Scott Thomason
911 SW Roberts Ave
Ft White, FL 32038

Project Title:
Thomason Res

6/16/2026

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	S		1.5ft.	1.0ft.	60.0	60.0	0.0	14	16	834	Btuh	
2	2 NFRC	0.25, 0.36	No	No	E		1.0ft.	6.0ft.	15.0	0.0	15.0	14	33	491	Btuh	
3	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	45.0	0.0	45.0	14	14	625	Btuh	
4	2 NFRC	0.25, 0.36	No	No	W		1.0ft.	5.0ft.	6.0	0.0	6.0	14	33	196	Btuh	
5	2 NFRC	0.25, 0.36	No	No	W		1.0ft.	6.0ft.	10.0	0.0	10.0	14	33	327	Btuh	
	Excursion													32	Btuh	
	Window Total								136 (sqft)					2506 Btuh		
Walls	Type						U-Value		R-Value		Area(sqft)		HTM		Load	
									Cav/Sheath							
1	Frame - Wood - Ext						0.08		19.0/0.0		496.0		2.0		1012 Btuh	
2	Frame - Wood - Ext						0.08		19.0/0.0		289.0		2.0		590 Btuh	
3	Frame - Wood - Ext						0.08		19.0/0.0		531.0		2.0		1083 Btuh	
4	Frame - Wood - Ext						0.08		19.0/0.0		308.0		2.0		628 Btuh	
	Wall Total										1624 (sqft)				3313 Btuh	
Doors	Type								Area (sqft)		HTM		Load			
1	Insulated - Exterior								20.0		16.1		322 Btuh			
2	Insulated - Exterior								20.0		16.1		322 Btuh			
	Door Total								40 (sqft)				644 Btuh			
Ceilings	Type/Color/Surface						U-Value		R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle/RB						0.025		38.0/0.0		2534.0		1.24		3151 Btuh	
	Ceiling Total										2534 (sqft)				3151 Btuh	
Floors	Type								R-Value		Size		HTM		Load	
1	Slab On Grade								0.0		2304 (ft-perimeter)		0.0		0 Btuh	
	Floor Total										2304.0 (sqft)				0 Btuh	
	Envelope Subtotal:													9615 Btuh		
Infiltration	Type						Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load	
	Natural						0.17		20736		1		59.6		1567 Btuh	
Internal gain							Occupants		Btuh/occupant		Appliance		Load			
							6		X 230		+		1400		2780 Btuh	
	Sensible Envelope Load:													13962 Btuh		
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)										(DGM of 0.545)			7603 Btuh		
	Sensible Load All Zones													21565 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Scott Thomason
911 SW Roberts Ave
Ft White, FL 32038

Project Title:
Thomason Res

Climate:FL_GAINESVILLE_REGIONAL_A

6/16/2026

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	13962 Btuh
	Sensible Duct Load	7603 Btuh
	Total Sensible Zone Loads	21565 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21565 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2179 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1838 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5218 Btuh
	TOTAL GAIN	26782 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