

Project Name: Grace Full One LLC Street: 247 SW Otter Lane City, State, Zip: Ft. White, FL, 32038 Owner: Grace Full One LLC Design Location: FL, Ocala	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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<table style="width: 100%;"> <tr> <td style="width: 40%;">1. New construction or existing</td> <td style="width: 60%;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>1549</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(192.0 sqft.)</td> <td>Description Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>DbI, U=0.36 192.00 ft²</td> </tr> <tr> <td>SHGC:</td> <td>SHGC=0.25</td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td colspan="2">Area Weighted Average Overhang Depth: 7.594 ft</td> </tr> <tr> <td colspan="2">Area Weighted Average SHGC: 0.250</td> </tr> <tr> <td>8. Skylights</td> <td>Description Area</td> </tr> <tr> <td>U-Factor:(AVG)</td> <td>N/A N/A ft²</td> </tr> <tr> <td>SHGC(AVG):</td> <td>N/A</td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0 1549.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	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 (ft ²)	1549	Conditioned floor area below grade (ft ²)	0	7. Windows(192.0 sqft.)	Description Area	a. U-Factor:	DbI, U=0.36 192.00 ft ²	SHGC:	SHGC=0.25	b. U-Factor:	N/A ft ²	SHGC:		c. U-Factor:	N/A ft ²	SHGC:		Area Weighted Average Overhang Depth: 7.594 ft		Area Weighted Average SHGC: 0.250		8. Skylights	Description Area	U-Factor:(AVG)	N/A N/A ft ²	SHGC(AVG):	N/A	9. Floor Types	Insulation Area	a. Slab-On-Grade Edge Insulation	R= 0.0 1549.00 ft ²	b. N/A	R= ft ²	c. N/A	R= ft ²	<table style="width: 100%;"> <tr> <td style="width: 40%;">10. Wall Types(1500.0 sqft.)</td> <td style="width: 20%;">Insulation</td> <td style="width: 40%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=19.0</td> <td>1302.00 ft²</td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=19.0</td> <td>198.00 ft²</td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> <td></td> </tr> <tr> <td>11. Ceiling Types(1626.4 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Flat ceiling under att (Vented)</td> <td>R=38.0</td> <td>1626.40 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>12. Roof(Metal, Vented)</td> <td>Deck R=0.0</td> <td>1732 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R</td> <td>ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Main</td> <td>6</td> <td>387</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>17.9</td> <td>SEER2:15.00</td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>27.0</td> <td>HSPF2:8.80</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> <td></td> </tr> <tr> <td>a. PropaneTankless</td> <td></td> <td>Cap: 1 gallons</td> </tr> <tr> <td></td> <td></td> <td>EF: 0.590</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>None</td> </tr> <tr> <td>17. Credits</td> <td></td> <td>CV, Pstat</td> </tr> </table>	10. Wall Types(1500.0 sqft.)	Insulation	Area	a. Frame - Wood, Exterior	R=19.0	1302.00 ft ²	b. Frame - Wood, Adjacent	R=19.0	198.00 ft ²	c. N/A			d. N/A			11. Ceiling Types(1626.4 sqft.)	Insulation	Area	a. Flat ceiling under att (Vented)	R=38.0	1626.40 ft ²	b. N/A			c. N/A			12. Roof(Metal, Vented)	Deck R=0.0	1732 ft ²	13. Ducts, location & insulation level	R	ft ²	a. Sup: Attic, Ret: Attic, AH: Main	6	387	b.			c.			14. Cooling Systems	kBtu/hr	Efficiency	a. Central Unit	17.9	SEER2:15.00	15. Heating Systems	kBtu/hr	Efficiency	a. Electric Heat Pump	27.0	HSPF2:8.80	16. Hot Water Systems			a. PropaneTankless		Cap: 1 gallons			EF: 0.590	b. Conservation features					None	17. Credits		CV, Pstat
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Glass/Floor Area:0.124	Total Proposed Modified Loads: 37.23	PASS
	Total Baseline Loads: 41.94	

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. <div style="text-align: center;"> PREPARED BY: _____ DATE: 4 / 7 / 2025 </div> 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. <div style="text-align: center;"> BUILDING OFFICIAL: _____ DATE: _____ </div>
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- 4/5/2025 11:58:21 AM EnergyGauge® USA 8.0.00 - FlaRes2023 FBC 8th Edition (2023) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Grace Full One LLC			Bedrooms:	3		Address type:	Street Address					
Building Type:	User			Conditioned Area:	1549		Lot #:	---					
Owner:	Grace Full One LLC			Total Stories:	1		Block/SubDivision:	---					
Builder Home ID:				Worst Case:	No		PlatBook:	---					
Builder Name:				Rotate Angle:	0		Street:	247 SW Otter Lane					
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:	2025												
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, Ocala	FL_OCALA_MUNI_(AWOS)			28	91		70	75		1144.5	51	Medium	
BLOCKS													
✓ Number	Name	Area	Volume										
___ 1	Block1	1549	13941 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	Main	1549	13941	Yes	6	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 1549 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	Main	166.8	1549 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	Hip	Metal	1732 ft²	0 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		1549 ft²	Y	N				
CEILING (Total Exposed Area = 1626 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	Main	38.0	Double Batt	1626.4ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1500 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	Main	19.0	55.0	4	9.0	0	498.0	0.061		0.23	0.75	0 %	
___ 2	E	Exterior	Frame - Wood	Main	19.0	28.0	0	9.0	0	252.0	0.061		0.23	0.75	0 %	
___ 3	N	Exterior	Frame - Wood	Main	19.0	55.0	4	9.0	0	498.0	0.061		0.23	0.75	0 %	
___ 4	W	Exterior	Frame - Wood	Main	19.0	6.0	0	9.0	0	54.0	0.061		0.23	0.75	0 %	
___ 5	W	Garage	Frame - Wood	Main	19.0	22.0	0	9.0	0	198.0	0.061		0.23	0.75	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	Main	None	0.46	3.00	0	6.00	8	20.0ft²	
___ 2	W	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS (Total Exposed Area = 192 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	105.0	7	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	1	3.00	5.00	7.5	1.0	None	None
___ 3	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.0	1	4.00	3.00	16.5	1.0	None	None
___ 4	N	3	Metal	Low-E Double	Y	0.36	0.25	N	N	40.0	1	6.00	6.67	16.5	1.0	None	None
___ 5	N	3	TIM	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	16.5	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	1626	89.23	167.52	0.1211	7.0	All	13941 cu ft

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	572 ft²	22.0 ft²	26.0 ft²	572 ft²	74 ft	572 ft	9 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	HeatPump Power	----HeatPump---- Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	27.0		0.00	0.00	0.00	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

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	17.9	540	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	Propane	Tankless	Exterior	0.59 (0.59)	1.0 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 #	Location	Supply----- 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	387 ft²	Attic	6.0	77 ft²	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec	
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec	
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] 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* = 89

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

247 SW Otter Lane, Ft. White, FL, 32038

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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)	1549	11. Ceiling Types (1626.4 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1626.40 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof (Metal, Vented)	Deck R=0.0	1732 ft ²
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SHGC:		c.		
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Area Weighted Average SHGC:	0.250	a. Central Unit	17.9	SEER2:15.00
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SHGC:(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Propane Tankless	Cap: 1 gallons	
b. N/A	R=		EF: 0.590	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			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: 247 SW Otter Lane

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: 247 SW Otter Lane			
City: Ft. White	State: FL	Zip: 32038	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>			
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="radio"/> 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.</div> <div style="border: 1px solid black; padding: 5px;"><input checked="" type="radio"/> 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. <div style="text-align: right; margin-top: 5px;">ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000</div></div>			
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 60%;">$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{13941}{\text{ACH}(50)} =$<div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto; display: flex; align-items: center; justify-content: center; font-weight: bold; font-size: 1.2em;">PASS</div><div style="margin-top: 10px;"><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</div></div><div style="width: 35%;"><p>Method for calculating building volume:</p><div style="margin-top: 5px;"><input type="radio"/> Retrieved from architectural plans</div><div style="margin-top: 5px;"><input checked="" type="radio"/> Code software calculated</div><div style="margin-top: 5px;"><input type="radio"/> Field measured and calculated</div></div></div>			
<p>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>.</p> <p>During testing:</p> <ol style="list-style-type: none">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			
<div style="display: flex; justify-content: space-between;"><div>Company Name: _____</div><div>Phone: _____</div></div> <p>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.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Signature of Tester: _____</div><div>Date of Test: _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Printed Name of Tester: _____</div><div></div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>License/Certification #: _____</div><div>Issuing Authority: _____</div></div>			

Residential System Sizing Calculation

Summary

Grace Full One LLC
247 SW Otter Lane
Ft. White, FL 32038

Project Title:
Grace Full One LLC

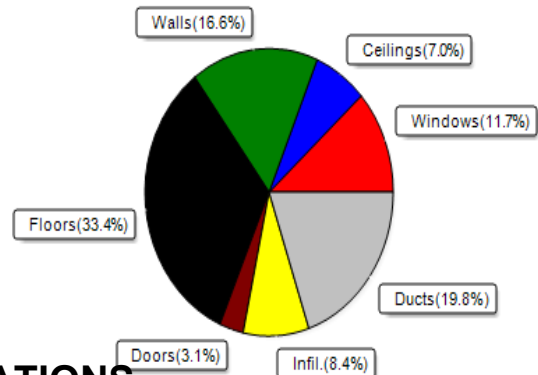
4/5/2025

Location for weather data: Ocala, FL - Defaults: Latitude(29.17) Altitude(89 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(41gr.)			
Winter design temperature(MJ8 99%/Cu)34 F		Summer design temperature(MJ8 99%/Cu)99 F	
Winter setpoint 70 F		Summer setpoint 75 F	
Winter temperature difference 36 F		Summer temperature difference 24 F	
Total heating load calculation	21243 Btuh	Total cooling load calculation	19499 Btuh
Submitted heating capacity % of calc Btuh		Submitted cooling capacity % of calc Btuh	
Total (Electric Heat Pump) 127.3 27035		Sensible (SHR = 0.75) 81.9 13414	
Heat Pump + Auxiliary(0.0kW) 127.3 27035		Latent 143.5 4471	
		Total (Electric Heat Pump) 91.7 17886	

WINTER CALCULATIONS

Winter Heating Load (for 1549 sqft)

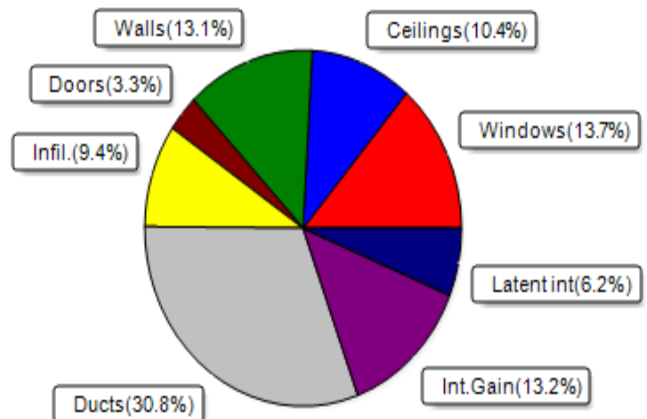
Load component		Load	
Window total	192 sqft	2488	Btuh
Wall total	1268 sqft	3527	Btuh
Door total	40 sqft	662	Btuh
Ceiling total	1626 sqft	1486	Btuh
Floor total	1549 sqft	7086	Btuh
Infiltration	45 cfm	1777	Btuh
Duct loss		4216	Btuh
Subtotal		21243	Btuh
Ventilation Ex:0 cfm; Sup:0 cfm		0	Btuh
TOTAL HEAT LOSS		21243	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1549 sqft)

Load component		Load	
Window total	192 sqft	2673	Btuh
Wall total	1268 sqft	2554	Btuh
Door total	40 sqft	644	Btuh
Ceiling total	1626 sqft	2023	Btuh
Floor total		0	Btuh
Infiltration	34 cfm	889	Btuh
Internal gain		2580	Btuh
Duct gain		5020	Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm		0	Btuh
Blower Load		0	Btuh
Total sensible gain		16382	Btuh
Latent gain(ducts)		978	Btuh
Latent gain(infiltration)		939	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3117	Btuh
TOTAL HEAT GAIN		19499	Btuh



8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: _____

4 / 7 / 2025

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Grace Full One LLC
247 SW Otter Lane
Ft. White, FL 32038

Project Title:
Grace Full One LLC
Building Type: User

4/5/2025

Reference City: Ocala, FL (Defaults) Winter Temperature Difference: 36.0 °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	105.0		13.0	1361 Btuh
2	2, NFRC 0.25	Vinyl	0.36	E	15.0		13.0	194 Btuh
3	2, NFRC 0.25	Vinyl	0.36	N	12.0		13.0	156 Btuh
4	2, NFRC 0.25	Metal	0.36	N	40.0		13.0	518 Btuh
5	2, NFRC 0.25	TIM	0.36	N	20.0		13.0	259 Btuh
	Window Total				192.0(sqft)			2488 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	373		2.78	1038 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	237		2.78	659 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	426		2.78	1185 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	54		2.78	150 Btuh
5	Frame - Wood	- Adj	(0.077)	19.0/0.0	178		2.78	495 Btuh
	Wall Total				1268(sqft)			3527 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		16.6	331 Btuh
2	Insulated - Garage, n		(0.460)		20		16.6	331 Btuh
	Door Total				40(sqft)			662Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Flat ceil/D/Metal		(0.025)	38.0/0.0	1626		0.91	1486 Btuh
	Ceiling Total				1626(sqft)			1486Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	166.8 ft(perim.)		42.5	7086 Btuh
	Floor Total				1549 sqft			7086 Btuh
	Envelope Subtotal:							15250 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.19	13941	1.00	45.0		1777 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.248)							4216 Btuh
All Zones	Sensible Subtotal All Zones							21243 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Grace Full One LLC
247 SW Otter Lane
Ft. White, FL 32038

Project Title:
Grace Full One LLC
Building Type: User

4/5/2025

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	21243 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	21243 Btuh

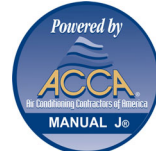
EQUIPMENT

1. Electric Heat Pump	#	27035 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

Grace Full One LLC
247 SW Otter Lane
Ft. White, FL 32038

Project Title:
Grace Full One LLC

4/5/2025

Reference City: Ocala, FL (Defaults)
Humidity difference: 41gr.

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.	105.0	105.0	0.0	14	16	1462	Btuh	
2	2 NFRC	0.25, 0.36	No	No	E		7.5ft.	1.0ft.	15.0	15.0	0.0	14	33	209	Btuh	
3	2 NFRC	0.25, 0.36	No	No	N		16.5f	1.0ft.	12.0	0.0	12.0	14	14	167	Btuh	
4	2 NFRC	0.25, 0.36	No	No	N		16.5f	1.0ft.	40.0	0.0	40.0	14	14	557	Btuh	
5	2 NFRC	0.25, 0.36	No	No	N		16.5f	1.0ft.	20.0	0.0	20.0	14	14	278	Btuh	
	Window Total								192 (sqft)					2673		Btuh
Walls	Type		U-Value		R-Value		Cav/Sheath		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext		0.08		19.0/0.0				373.0		2.0		761		Btuh	
2	Frame - Wood - Ext		0.08		19.0/0.0				237.0		2.0		483		Btuh	
3	Frame - Wood - Ext		0.08		19.0/0.0				426.0		2.0		869		Btuh	
4	Frame - Wood - Ext		0.08		19.0/0.0				54.0		2.0		110		Btuh	
5	Frame - Wood - Adj		0.08		19.0/0.0				178.0		1.9		330		Btuh	
	Wall Total								1268 (sqft)					2554		Btuh
Doors	Type		U-Value		R-Value		Cav/Sheath		Area (sqft)		HTM		Load			
1	Insulated - Exterior		0.08		19.0/0.0				20.0		16.1		322		Btuh	
2	Insulated - Garage		0.08		19.0/0.0				20.0		16.1		322		Btuh	
	Door Total								40 (sqft)					644		Btuh
Ceilings	Type/Color/Surface		U-Value		R-Value		Cav/Sheath		Area(sqft)		HTM		Load			
1	Vented Attic/DarkMetal/RB		0.025		38.0/0.0				1626.4		1.24		2023		Btuh	
	Ceiling Total								1626 (sqft)					2023		Btuh
Floors	Type		U-Value		R-Value		Cav/Sheath		Size		HTM		Load			
1	Slab On Grade		0.08		19.0/0.0				1549 (ft-perimeter)		0.0		0		Btuh	
	Floor Total								1549.0 (sqft)					0		Btuh
	Envelope Subtotal:													7893		Btuh
Infiltration	Type		Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load					
	Natural		0.15		13941		1		33.8		889		Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load									
	6		X 230		+		1200		2580		Btuh					
	Sensible Envelope Load:													11362		Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)		(DGM of 0.442)		Load											
	Sensible Load All Zones													16382		Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Grace Full One LLC
247 SW Otter Lane
Ft. White, FL 32038

Project Title:
Grace Full One LLC

Climate:FL_OCALA_MUNI_(AWOS)

4/5/2025

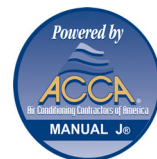
WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	11362 Btuh
	Sensible Duct Load	5020 Btuh
	Total Sensible Zone Loads	16382 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	16382 Btuh
	Latent infiltration gain (for 41 gr. humidity difference)	939 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	978 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3117 Btuh
	TOTAL GAIN	19499 Btuh

EQUIPMENT

1. Central Unit	#	17886 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