



**INPUT SUMMARY CHECKLIST REPORT****PROJECT**

Title:	147 SW Christiansen Court	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	1776	Lot #:	---
Owner:	N/A	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	147 SW Christiansen Court
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL,
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2023				
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	1776	15984 cu ft

**SPACES**

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1776	15984	Yes	8	4	Yes	Yes	Yes

**FLOORS**

(Total Exposed Area = 1776 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	191	0	1776 ft	0.304	---	0.00	0.00	1.00

**ROOF**

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	2134 ft <sup>2</sup>	0 ft <sup>2</sup>	Medium	Y	0.96	No	0.9	No	0	33.69

**ATTIC**

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Partial cathedral ceiling	Vented	300	1776 ft <sup>2</sup>	Y	N

**CEILING**

(Total Exposed Area = 1865 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	1865.0ft <sup>2</sup>	0.024	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1647 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	13.0	32.0	2	9.0	0	289.5	0.084		0.23	0.75	0 %	
___ 2	E	Exterior	Frame - Wood	Main	13.0	29.0	4	9.0	0	264.0	0.084		0.23	0.75	0 %	
___ 3	N	Exterior	Frame - Wood	Main	13.0	12.0	8	9.0	0	114.0	0.084		0.23	0.75	0 %	
___ 4	N	Exterior	Frame - Wood	Main	13.0	16.0	6	9.0	0	148.5	0.084		0.23	0.75	0 %	
___ 5	E	Exterior	Frame - Wood	Main	13.0	8.0	0	9.0	0	72.0	0.084		0.23	0.75	0 %	
___ 6	N	Exterior	Frame - Wood	Main	13.0	25.0	8	9.0	0	231.0	0.084		0.23	0.75	0 %	
___ 7	W	Exterior	Frame - Wood	Main	13.0	36.0	4	9.0	0	327.0	0.084		0.23	0.75	0 %	
___ 8	S	Garage	Frame - Wood	Main	13.0	22.0	4	9.0	0	201.0	0.084		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	S	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			

WINDOWS														(Total Exposed Area = 181 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	4.0	1	4.00	1.00	1.5	1.0	None	None
___ 3	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___ 4	N	4	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	9.5	1.0	None	None
___ 5	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.0	1	4.00	3.00	1.5	1.0	Drapes/blinds	None
___ 6	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	1.0	None	None
___ 7	W	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None
___ 8	W	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	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)	0.00029	1332	73.08	137.19	0.1027	5.0	All	15984 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	468 ft²	468 ft²	63 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 HeatPump---- Entry Power Volt Current	Ducts	Block

# INPUT SUMMARY CHECKLIST REPORT

## HEATING SYSTEM(Continued)

<input type="checkbox"/> 1	Electric Heat Pump	None/Single	HSPF2: 8.20	27.2	0.00	0.00	0.00	sys#1	1
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## COOLING SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
<input type="checkbox"/> 1	Central Unit	None/Single	SEER2:15.0	22.6	690	0.70	sys#1	1	

## HOT WATER SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
<input type="checkbox"/> 1	Electric	None	Garage	0.92 (0.92)	40.00 gal	30 gal	120 deg	Standard	None	88
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
<input type="checkbox"/> 1	No		NA	NA	NA	No	NA	NA	NA	None

## DUCTS

<input checked="" type="checkbox"/> Duct #	Location	Supply R-Value	Supply Area	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
<input type="checkbox"/> 1	Attic	6.0	444 ft²	6.0	89 ft²	Default Leakage	Main	(Default)	(Default)			1	1

## MECHANICAL VENTILATION

<input checked="" type="checkbox"/> Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
<input type="checkbox"/> Runtime Vent	20.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit

## 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

<input checked="" type="checkbox"/> Thermostat Schedule: HERS 2006 Reference	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
<input type="checkbox"/> Cooling (WD)	AM PM	78 80	78 80	78 78	80 78	80 78	80 78						
<input type="checkbox"/> Cooling (WEH)	AM PM	78 78											
<input type="checkbox"/> 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
<input type="checkbox"/> 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



# Envelope Leakage Test Report (Blower Door Test)

## Residential Prescriptive, Performance or ERI Method Compliance

### 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
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#### Job Information

Builder:	Community:	Lot: NA
Address: 147 SW Christiansen Court		
City: Lake City	State: FL	Zip:

#### 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 R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.  
*ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI):* 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div 15984 = \text{ACH}(50)$ <div style="text-align: center; margin-top: 10px;"> <input type="checkbox"/> <b>PASS</b> </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</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.** 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 (*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 *code official*. Testing shall be performed at any time after creation of all penetrations of the *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.

#### Testing Company

Company Name: \_\_\_\_\_ Phone: \_\_\_\_\_

I hereby verify that the above Air Leakage results are in accordance with the 2020 7th 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

N/A  
147 SW Christiansen Court  
Lake City, FL

Project Title:  
147 SW Christiansen Court

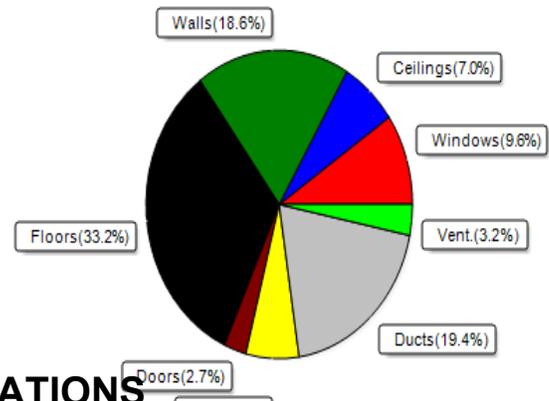
7/25/2023

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)		30 F	Summer design temperature(TMY3 99%)		94 F
Winter setpoint		70 F	Summer setpoint		75 F
Winter temperature difference		40 F	Summer temperature difference		19 F
<b>Total heating load calculation</b>		<b>27174 Btuh</b>	<b>Total cooling load calculation</b>		<b>22604 Btuh</b>
Submitted heating capacity		% of calc Btuh	Submitted cooling capacity		% of calc Btuh
Total (Electric Heat Pump)		100.0 27174	Sensible (SHR = 0.70)		87.7 15822
Heat Pump + Auxiliary(0.0kW)		100.0 27174	Latent		148.7 6781
			Total (Electric Heat Pump)		100.0 22604

## WINTER CALCULATIONS

Winter Heating Load (for 1776 sqft)

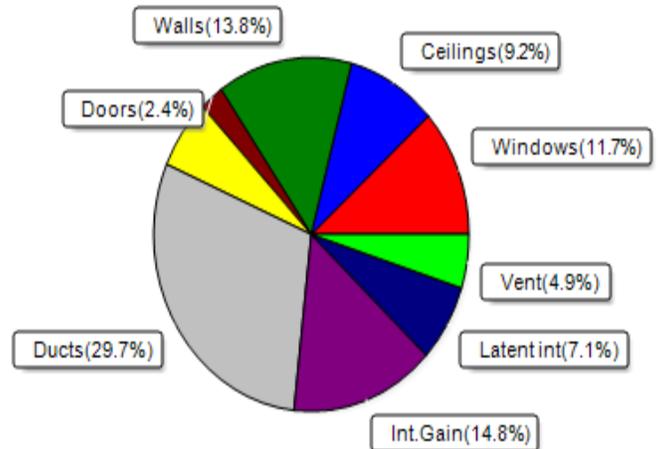
Load component	Load	
Window total	181 sqft	2606 Btuh
Wall total	1426 sqft	5063 Btuh
Door total	40 sqft	736 Btuh
Ceiling total	1865 sqft	1893 Btuh
Floor total	1776 sqft	9015 Btuh
Infiltration	39 cfm	1705 Btuh
Duct loss		5279 Btuh
<b>Subtotal</b>		<b>26298 Btuh</b>
Ventilation	Ex:0 cfm; Sup:20 cfm	876 Btuh
<b>TOTAL HEAT LOSS</b>		<b>27174 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1776 sqft)

Load component	Load	
Window total	181 sqft	2638 Btuh
Wall total	1426 sqft	3123 Btuh
Door total	40 sqft	552 Btuh
Ceiling total	1865 sqft	2083 Btuh
Floor total		0 Btuh
Infiltration	26 cfm	542 Btuh
Internal gain		3340 Btuh
Duct gain		5349 Btuh
Sens.Ventilation	Ex:0 cfm; Sup:20 cfm	416 Btuh
Blower Load		0 Btuh
<b>Total sensible gain</b>		<b>18043 Btuh</b>
Latent gain(ducts)		1372 Btuh
Latent gain(infiltration)		899 Btuh
Latent gain(ventilation)		690 Btuh
Latent gain(internal/occupants/other)		1600 Btuh
<b>Total latent gain</b>		<b>4561 Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>22604 Btuh</b>



8th Edition

EnergyGauge® System Sizing

PREPARED BY: \_\_\_\_\_

DATE: 7 / 26 / 2023

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

N/A  
147 SW Christiansen Court  
Lake City, FL

Project Title:  
147 SW Christiansen Court  
Building Type: User

7/25/2023

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 °F (TMY3 99%)  
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		14.4	864 Btuh
2	2, NFRC 0.25	Vinyl	0.36	E	4.0		14.4	58 Btuh
3	2, NFRC 0.25	Vinyl	0.36	N	15.0		14.4	216 Btuh
4	2, NFRC 0.25	TIM	0.36	N	40.0		14.4	576 Btuh
5	2, NFRC 0.25	Vinyl	0.36	N	12.0		14.4	173 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	30.0		14.4	432 Btuh
7	2, NFRC 0.25	Vinyl	0.36	W	4.0		14.4	58 Btuh
8	2, NFRC 0.25	Vinyl	0.36	W	16.0		14.4	230 Btuh
	Window Total				181.0(sqft)			2606 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	210		3.55	744 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	260		3.55	923 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	99		3.55	351 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	109		3.55	385 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	72		3.55	256 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	189		3.55	671 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	307		3.55	1090 Btuh
8	Frame - Wood	- Adj	(0.089)	13.0/0.0	181		3.55	643 Btuh
	Wall Total				1426(sqft)			5063 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		20		18.4	368 Btuh
2	Insulated - Garage,	n	(0.460)		20		18.4	368 Btuh
	Door Total				40(sqft)			736Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Flat ceil/M/Shing	(0.025)	38.0/0.0		1865		1.0	1893 Btuh
	Ceiling Total				1865(sqft)			1893Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		191.0 ft(perim.)		47.2	9015 Btuh
	Floor Total				1776 sqft			9015 Btuh
	Envelope Subtotal:							19314 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural(Adjusted for ventilation)	0.16	15984	1.00	38.9			1705 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.251)						5279 Btuh	
All Zones	<b>Sensible Subtotal All Zones</b>							<b>26298 Btuh</b>

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

N/A  
 147 SW Christiansen Court  
 Lake City, FL

Project Title:  
 147 SW Christiansen Court  
 Building Type: User

7/25/2023

### WHOLE HOUSE TOTALS

<b>Totals for Heating</b>	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss      (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	26298 Btuh 876 Btuh 27174 Btuh
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### EQUIPMENT

1. Electric Heat Pump	#	27174 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

N/A  
147 SW Christiansen Court  
Lake City, FL

Project Title:  
147 SW Christiansen Court

7/25/2023

Reference City: Gainesville, FL (Defaults)  
Humidity difference: 51gr.

Temperature Difference: 19.0F(TMY3 99%)  
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	12	14	726	Btuh	
2	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh	
3	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	15.0	0.0	15.0	12	12	181	Btuh	
4	2 NFRC	0.25, 0.36	No	No	N	9.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh	
5	2 NFRC	0.25, 0.36	B-L	No	N	1.5ft.	1.0ft.	12.0	0.0	12.0	9	9	112	Btuh	
6	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	30.0	0.0	30.0	12	12	363	Btuh	
7	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh	
8	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	16.0	1.0	15.0	12	31	477	Btuh	
	Excursion													85	Btuh
	Window Total								181 (sqft)					2638 Btuh	
Walls	Type	U-Value	R-Value	Area(sqft)		HTM		Load							
1	Frame - Wood - Ext	0.09	13.0/0.0	209.5		2.3		474 Btuh							
2	Frame - Wood - Ext	0.09	13.0/0.0	260.0		2.3		588 Btuh							
3	Frame - Wood - Ext	0.09	13.0/0.0	99.0		2.3		224 Btuh							
4	Frame - Wood - Ext	0.09	13.0/0.0	108.5		2.3		246 Btuh							
5	Frame - Wood - Ext	0.09	13.0/0.0	72.0		2.3		163 Btuh							
6	Frame - Wood - Ext	0.09	13.0/0.0	189.0		2.3		428 Btuh							
7	Frame - Wood - Ext	0.09	13.0/0.0	307.0		2.3		695 Btuh							
8	Frame - Wood - Adj	0.09	13.0/0.0	181.0		1.7		305 Btuh							
	Wall Total			1426 (sqft)				3123 Btuh							
Doors	Type	Area (sqft)	HTM		Load										
1	Insulated - Exterior	20.0	13.8		276 Btuh										
2	Insulated - Garage	20.0	13.8		276 Btuh										
	Door Total		40 (sqft)		552 Btuh										
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM		Load								
1	Vented Attic/Med/Shingle/RB	0.025	38.0/0.0	1865.0	1.12		2083 Btuh								
	Ceiling Total			1865 (sqft)			2083 Btuh								
Floors	Type	R-Value	Size	HTM		Load									
1	Slab On Grade	0.0	1776 (ft-perimeter)	0.0		0 Btuh									
	Floor Total		1776.0 (sqft)			0 Btuh									
Envelope Subtotal:													8396 Btuh		
Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load									
	Natural(Adjusted for ventilation)	0.10	15984	1	26.0	542 Btuh									
Internal gain	Occupants	Btuh/occupant	Appliance	Load											
	8	X 230	+	1500	3340 Btuh										
Sensible Envelope Load:													12278 Btuh		

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

N/A  
147 SW Christiansen Court  
Lake City, FL

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
147 SW Christiansen Court

7/25/2023

<b>Duct load</b>	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.436)	5349 Btuh
		<b>Sensible Load All Zones</b>	<b>17627 Btuh</b>

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

N/A  
147 SW Christiansen Court  
Lake City, FL

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
147 SW Christiansen Court

7/25/2023

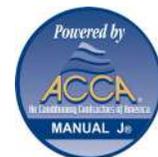
### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>12278 Btuh</b>
	Sensible Duct Load	5349 Btuh
	<b>Total Sensible Zone Loads</b>	<b>17627 Btuh</b>
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	416 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>18043 Btuh</b>
	Latent infiltration gain (for 51 gr. humidity difference)	899 Btuh
	Latent ventilation gain	690 Btuh
	Latent duct gain	1372 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>4561 Btuh</b>
	<b>TOTAL GAIN</b>	<b>22604 Btuh</b>

### EQUIPMENT

1. Central Unit	#	22604 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