FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 176 SW Kimberly Lane Street: 176 SW Kimberly Lane City, State, Zip: Lake City, FL, 32025 Owner: N/A Design Location: FL, Gainesville		Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction:	Climate Zone 2)
	rom Plans) Detached 1 3 No 1895 0 Area 215.00 ft² ft² ft² 3.267 ft 0.250 Area N/A ft² Area 1895.00 ft² ft² ft²	County: Columbia(Florida County: Columbia(Florida County: Columbia(Florida County: Columbia(Florida County: Columbia(Florida County: Columbia, Col	Insulation Area R=13.0 1437.00 ft ² R=13.0 321.00 ft ² Insulation Area R=38.0 1989.80 ft ² Deck R=0.0 2278 ft ²
		17. Credits	CV, Pstat
I hereby certify that the plans and specifications of this calculation are in compliance with the Florida Code. PREPARED BY: 01 / 29 / 2024	overed by Energy	e Loads: 47.80	OF THE STATE
I hereby certify that this building, as designed, is in with the Florida Energy Code. OWNER/AGENT: DATE: - Compliance requires certification by the air building.		BUILDING OFFICIAL:	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- 1 of the 1 duct systems requires a Duct Leakage Test Report. Systems with Default duct leakage do not require this report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PROJE	СТ						
Title: Building Type: Owner: Builder Home ID Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	Columbia County Detached New (From Plans)		Bedrooms Conditione Total Stori Worst Cas Rotate Ang Cross Ven Whole Hou Terrain: Shielding:	ed Area: es: e: gle: tilation:	3 1895 1 No 0 Yes No Suburban Suburban	Lot # Bloc PlatE Stree Coul	k/SubDivisi Book: et:	 176 SW K Columbia	imber l y L	ane	
				CLIMA	TE						
Design Location		Tmy Site		Design 97.5%	Temp 2.5%	Int Desig Winter		Heating Degree Days	Desi Moistui		ily temp nge
FL, Gainesvill	e	FL_GAINESVILLE_I	REGIONA	32	92	70	75	1305.5	51	Medi	um
				BLOC	KS						
Number	Name	Area	Volu	me							
1	Block1	1895	1705	55 cu ft							
				SPAC	ES						
Number	Name	Area	Volume	Kitchen	Occupants	. Bedi	rooms	Finished	Со	oled H	leated
1	Main	1895	17055	Yes	6	;	3	Yes	١	'es	Yes
				FLOO	RS	(Total Ex	xposed Ar	ea = 1	895 sq	.ft.)
√# Floor Ty	/pe	Space	Expos Perim(Va l ue l m. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
1 Slab-On-0	Grade Edge Ins	Main	195.33	1895 s	sqft 0		0.304	2 (ft)/0 (ft)	0.00	0.00	1.00
				ROO	F						
√# Type		Materia l s	Ro Are		able Roof rea Colo		Solar Absor.	SA Emit Tested	t Emitt Tested		Pitch (deg)
1 Hip	(Composition shingle	s 227	8 ft² (ft² Mediu	m Y	0.96	No 0.9	No	0	33.69
				ATTI	С						
√# Type		Ventilation		Vent Rat	o (1 in)	Area	RBS	IRCO			
1 Full attic		Vented		300)	1895 ft²	Υ	N			
				CEILIN	1G	(Total Ex	xposed Ar	ea = 1	990 sq	.ft.)
√# Ceiling ⁻	Туре	S	Space	R-Valu	e Ins. Ty	pe Are	ea U-F	actor Framin	g Frac.	Trus	s Type
	g under attic(Vented)		Main	38.0	Davida	Batt 1989	0.062	024 0.	11	١٨	/ood

INPUT SUMMARY CHECKLIST REPORT

								\A/	\				Lal F		Λ κ τ =		0	EL /
									ALLS	•		(10	tal Exp	osed	Area	= 1/5	o sq	π.)
/ #	Ornt		acent Го	Wall Type		Space)		avity Va l ue	Width Ft Ir	ı	Height Ft In	Area sq.ft		Sheath r R-Va l u		Solar . Absor.	Below . Grade
1 2 3 4	S		Exterior Exterior Exterior Exterior	Frame - Wood Frame - Wood Frame - Wood Frame - Wood		M M	lain lain lain lain		13.0 13.0 13.0 13.0	10.0	8 0 0 0	9.0 (9.0 (204.0 342.0 90.0 0 144.0	0.084 0.084	4 4	0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 %
5 6 7 8	S W N		Exterior Exterior Garage Garage	Frame - Wood Frame - Wood Frame - Wood Frame - Wood		N N N	Iain Iain Iain Iain		13.0 13.0 13.0 13.0	33.0 8 39.0 4	0	9.0 (9.0 (303.0 354.0 189.0 132.0	0 0.084 0 0.084 0 0.084	4 4 4	0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 %
								DC	ORS	3		(Total E	xpose	ed Are	a = 4	0 sq.	ft.)
\sqrt	Ornt		Adjacent	To Door Type		Space			Stor	ms		U-Va l ue		<i>N</i> idth Ft I n		leight t I n	Ar	ea
1	N N		Exterior Garage	Insulated Insulated		Mair Mair				one		0.46 0.46	3.0 3.0		6.00 6.00	8 8	20.0 20.0	
							W	/IN	DOW	/S		(T	otal Ex	posed	d Area	ı = 21	5 sq.	ft.)
/ #	Ornt	Wall I D	Frame	Panes	NFRC (J-Factor	SHGC	Imp	Storm	Total Area (ft²)	Sam Unit		h Height (ft)			Interior	Shade	Screen
2 3 4 5 6		1 2 3 5 5 6 6	Vinyl Vinyl TIM Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Y Y Y Y Y	0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 0.25 0.25	N N N N N N	N N N N N N N N N	30.0 75.0 40.0 30.0 4.0 6.0 30.0	2 5 2 2 1 1 2	3.00 3.00 3.00 3.00 4.00 2.00 3.00	5.00 6.67 5.00 1.00 3.00	7.5 1.5 6.5 1.5 1.5 1.5	1.0 1.0 1.0 1.0 1.0 1.0	No No No No No No	ne ne ne ne ne	None None None None None None
							INF	ILT	RAT	ION								
V #	Scop	е	Ме	thod	SL	.A (CFM50		ELA	EqL/	4	ACH	ACH5	50 Spac	ce(s)	Infiltrat	tion Test	t Vo l ume
1	Wh	ιο l ehοι	ıse Prop	osed ACH(50)	0.00	029	1421	7	7.97	146.3	39	0.1027	5.0	A	All	17055	cu ft	
								GA	RAG	E								
/ #			Floor Area	F	Roof Area	a	Ex	pose	d Wall F	erimetei	r	A	vg. Wall H	eight	Ехр	osed Wa	all Insula	ntion
1			525 ft²		525 ft²				56 ft				9 ft			1		
<u> </u>								M	ASS									
/ #	Ма	ss Typ	е		Are	ea		Т	hicknes	s	F	urniture F	raction		Space			
1	De	fau l t(8	lbs/sq.ft.)		0 1				0 ft			0.30)		Main			
							HEAT	IN	G SY	STE	M							
/ #	Sy	stem T	уре	S	ubtype/S	Speed	AHRI	I #	Effic	iency		oacity tu/hr l		therma l F Power	HeatPum Vo l t C		Oucts	Block
_1	Ele	ectric H	eat Pump		None/Si	ngle			HSPF	2: 8.20	2	8.1		0.00	0.00	0.00 s	ys#1	1

INPUT SUMMARY CHECKLIST REPORT

						CC	OLII	NG SY	STEM						
\checkmark	#	System Type		Sul	btype/Spee	d	AHR I #	Effic	ciency	Capacity kBtu/hr		r F l ow cfm	SHR	Duct	Block
	_ 1	Central Unit			None/Sing	le		SEEF	R2:16.0 2	3.5	1	690	0.75	sys#1	1
						НОТ	WA	TER S	YSTEM						
\checkmark	#	System Type	Subtype		Location		EF(UE	F) Cap	Use	SetPnt	Fixture	e F l ow	Pipe Ins	. Pipe	e length
_	_ 1	Electric	None		Garage		0.92 (0.	.92) 40.00 (gal 40 gal	120 deg) Stan	dard	None		12
		Recirculation System		с Control Гуре		Loop length	Brand lengt			Faciliti Connec			DWHR Eff	Othe	r Credits
_	_ 1	No				NA	NA	NA	No	NA	N	A	NA	Non	е
	DUCTS														
\checkmark	Duct#		upply R-Value A		Ret ation	urn R-Va l ue		Leakage	е Туре	Air Handler	CFM 25 TOT	CFM 25 OUT	5 QN OUT	RLF H	HVAC# eat Cool
	_ 1 A	Attic	6.0 474	ft² Attic		6.0	95 ft²	Defau l t L	eakage	Main	(Defau l t) ((Default)			1 1
						TI	EMPI	ERATU	RES						
	Progr Coo l i Heati Venti	ng [X] Jan	ostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] N [] N	/lay	Fans: N [X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] O [X] C	ct [>] Nov (] Nov (] Nov	[] Dec [X] Dec [] Dec
\checkmark		ermostat Sched nedu l e Type	ule: HERS 2	2006 Refere 1	nce 2	3	4	5	Hou 6	urs 7	8	9	10	11	12
_	_ Co	oling (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
	_ Co	oling (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
_	_ He	ating (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
	_ He	ating (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* = 93

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

176 SW Kimberly Lane, Lake City, FL, 32025

New construction or existing	New (From Plans)	10. Wall Types(1758.0 sqft.)	Insulation Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0 1437.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent c. N/A	R=13.0 321.00 ft ²
4. Number of Bedrooms	3	d. N/A	
5. Is this a worst case?	No	11. Ceiling Types(1989.8 sqft.)	Insulation Area
Conditioned floor area above grade (f Conditioned floor area below grade (fl	•	a. Flat ceiling under att (Vented)b. N/Ac. N/A	R=38.0 1989.80 ft ²
7. Windows** Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC:	Area 215.00 ft² ft²	12. Roof(Comp. Shingles, Vented)13. Ducts, location & insulation levela. Sup: Attic, Ret: Attic, AH: Mainb.c.	_
c. U-Factor: N/A SHGC: Area Weighted Average Overhang Dep Area Weighted Average SHGC:	ft ² th: 3.267 ft 0.250	14. Cooling Systems a. Central Unit	kBtu/hr Efficiency 23.5 SEER2:16.00
8. Skylights Description U-Factor:(AVG) N/A SHGC(AVG): N/A	Area N/A ft²	Heating Systemsa. Electric Heat Pump	kBtu/hr Efficiency 28.1 HSPF2:8.20
	· · · · · · · · · · · · · · · · · · ·	16. Hot Water Systemsa. Electricb. Conservation features	Cap: 40 gallons EF: 0.920
		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: _____ Date: _____
Address of New Home: 176 SW Kimberly Lane City/FL Zip: Lake City,FL,32025



*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: 176 SW Kimberly Lane							
City: Lake City Stat	e: FL Zip: 32025						
Air Leakage Test Results Passing results must mee	t either the Performance, Prescriptive, or ERI Method						
changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir	all be tested and verified as having an air leakage rate of not exceeding) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.						
x 60 ÷ 17055 Building Volume ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation 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 Florida Building Code, Residential Testing shall be conducted in accordance with ANSI/RESNETI/CC 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 Statues,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 design. 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. 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 inte							
Testing Company							
Company Name: I hereby verify that the above Air Leakage results are in accordance with requirements according to the compliance method selected above.	Phone:the 2023 8th Edition Florida Building Code Energy Conservation						
Signature of Tester:	Date of Test:						
Printed Name of Tester:	<u> </u>						
License/Certification #:	Issuing Authority:						

Residential System Sizing Calculation

Summary Project Title:

N/A 176 SW Kimberly Lane Lake City, FL 32025 Project Title: 176 SW Kimberly Lane

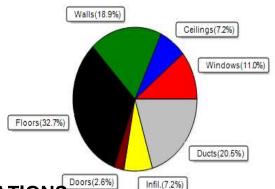
1/29/2024

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%	6) Outdoo	r wet bulb (79F) Humidity difference(54gr.)					
Winter design temperature(MJ8 9	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	26117	Btuh	Total cooling load calculation	25646	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	107.4	28061	Sensible (SHR = 0.75)	81.3	17593			
Heat Pump + Auxiliary(0.0kW)	107.4	28061	Latent	146.1	5864			
			Total (Electric Heat Pump)	91.5	23457			

WINTER CALCULATIONS

Winter Heating Load (for 1895 sqft)

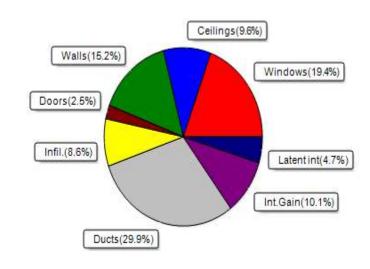
Load component			Load	
Window total	215	sqft	2864	Btuh
Wall total	1503	sqft	4936	Btuh
Door total	40	sqft	681	Btuh
Ceiling total	1990	sqft	1869	Btuh
Floor total	1895	sqft	8528	Btuh
Infiltration	47	cfm	1892	Btuh
Duct loss			5348	Btuh
Subtotal			26117	Btuh
Ventilation	Ex:0 cfm; Sup:0	cfm	0	Btuh
TOTAL HEAT LO	SS		26117	Btuh

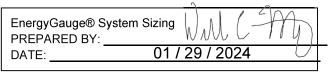


SUMMER CALCULATIONS

Summer Cooling Load (for 1895 sqft)

Load component			Load	
Window total	215	sqft	4974	Btuh
Wall total	1503	sqft	3895	Btuh
Door total	40	sqft	644	Btuh
Ceiling total	1990	sqft	2475	Btuh
Floor total			0	Btuh
Infiltration	35	cfm	920	Btuh
Internal gain			2580	Btuh
Duct gain			6144	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0) cfm	0	Btuh
Blower Load			0	Btuh
Total sensible ga	in		21632	Btuh
Latent gain(ducts)			1534	Btuh
Latent gain(infiltra	tion)		1280	Btuh
Latent gain(ventila	0	Btuh		
Latent gain(interna	1200	Btuh		
Total latent gain	4014	Btuh		
TOTAL HEAT GA	IN		25646	Btuh







System Sizing Calculations - Winter

Residential Load - Whole House Component Details

N/A 176 SW Kimberly Lane Lake City, FL 32025 Project Title: 176 SW Kimberly Lane Building Type: User

1/29/2024

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	Frai	me U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Viny	/I 0.36	N	30.0	13.3	400 Btuh
2	2, NFRC 0.25	Viny	/I 0.36	E	75.0	13.3	999 Btuh
3	2, NFRC 0.25	TIM	0.36	S	40.0	13.3	533 Btuh
4	2, NFRC 0.25	Viny	/I 0.36	S	30.0	13.3	400 Btuh
5	2, NFRC 0.25	Viny	/I 0.36	S	4.0	13.3	53 Btuh
6	2, NFRC 0.25	Viny	/I 0.36	W	6.0	13.3	80 Btuh
7	2, NFRC 0.25	Viny	/I 0.36	W	30.0	13.3	400 Btuh
	Window Total				215.0(sqft))	2864 Btuh
Walls	Туре	Ornt.	Ueff.	R-Value	Area X	HTM=	Load
	-			(Cav/Sh)			
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	154	3.28	506 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	267	3.28	877 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	50	3.28	164 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	144	3.28	473 Btuh
5	Frame - Wood		(0.089)	13.0/0.0	269	3.28	883 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	318	3.28	1044 Btuh
7	Frame - Wood	- Adj	(0.089)	13.0/0.0	169	3.28	555 Btuh
8	Frame - Wood	- Adj	(0.089)	13.0/0.0	132	3.28	433 Btuh
	Wall Total	•	,		1503(sqft)		4936 Btuh
Doors	Туре	Stor	m Ueff.		Area X	HTM=	Load
1	Insulated - Exte	rior, n	(0.460)		20	17.0	340 Btuh
2	Insulated - Gara	ige, n	(0.460)		20	17.0	340 Btuh
	Door Total		, ,		40(sqft)		681Btuh
Ceilings	Type/Color/Surf	ace	Ueff.	R-Value	Area X	HTM=	Load
1	Flat ceil/D/Shing	9 (0.025)	38.0/0.0	1990	0.94	1869 Btuh
	Ceiling Total				1990(sqft)		1869Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180	0.0	195.3 ft(pe	erim.) 43.7	8528 Btuh
	Floor Total				1895 sqft		8528 Btuh
				E	Envelope Subt	total:	18877 Btuh
Infiltration	Туре	Wh	olehouse <i>A</i>	ACH Volume(cuft) Wall Ra	ntio CFM=	
	Natural	• • • • • • • • • • • • • • • • • • • •		17055	•	I .	1892 Btuh
Duct load	Average sealed	R6 0	Supply(At	t) Return(Δtt)	(DI I	M of 0.257)	5348 Btuh
Duct load	/ (verage scaled	, 1.0.0,	Сарріў (Ас		, (DLI	vi 01 0.201)	5546 Bluil
All Zones				Sansibla	Subtotal All	Zones	26117 Btuh
All ZUITES				Sensible	Subtotal All	LUIIES	2011 <i>1</i> Blun

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

N/A 176 SW Kimberly Lane Lake City, FL 32025 Project Title: 176 SW Kimberly Lane Building Type: User

1/29/2024

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss Total Heat Loss	(Ex:0 cfm; Sup:0 cfm)	26117 Btuh 0 Btuh 26117 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	28061 Btuh
		1

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 176 SW Kimberly Lane Lake City, FL 32025

Project Title: 176 SW Kimberly Lane

1/29/2024

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

	Type*				Over	hang	Window Area(sqft)			HTM		Load		
Window	Panes	SHGC U		ıs	Ornt	Len	Hgt	Gross		Unshaded		Unshaded	2000	
1		0.25, 0.36	No	No	N	7.5ft.	1.0ft.	30.0	0.0	30.0	14	14	417	Btuh
2		0.25, 0.36	No	No	Ë	1.5ft	1.0ft	75.0	3.7	71.3	14	33	2386	
3		0.25, 0.36	No	No	S	6.5ft	1.0ft	40.0	40.0	0.0	14	16	556	Btuh
4		0.25, 0.36		No	S	1.5ft.	1.0ft	30.0	30.0	0.0	14	16	417	
5		0.25, 0.36	No	No	S	1.5ft.	1.0ft	4.0	4.0	0.0	14	16		Btuh
6		0.25, 0.36	No	No	W	1.5ft	1.0ft	6.0	0.5	5.5	14	33	187	
7		0.25, 0.36		No	W	1.5ft.		30.0	1.5	28.5	14	33		Btuh
	Windov							215 (s	saft)				4974	
Walls	Туре				U	-Value	e R-\	<u> </u>	Área	(saft)		HTM	Load	
	,	Cav/Sheath												
1	Frame - \	Wood - Ext			(0.09	13.0		15	4.0		2.7	417	Btuh
2	Frame - \	Wood - Ext				0.09	13.0	0.0/	26	7.0		2.7	723	Btuh
3	Frame - Wood - Ext				0.09	13.0					2.7	135	Btuh	
4	Frame - Wood - Ext				0.09	13.0					2.7		Btuh	
5	Frame - Wood - Ext				0.09		0.0				2.7	728	Btuh	
6	Frame - Wood - Ext			(0.09	13.0	0.0	31	8.0		2.7	861	Btuh	
7					0.09 13.0/0.0			169.0			2.1	360	Btuh	
8	Frame - \	Wood - Adj			(0.09	13.0	0.0	13:	2.0		2.1	281	Btuh
	Wall To	otal							150)3 (sqft)			3895	Btuh
Doors	Type								Area	(sqft)		HTM	Load	
1	Insulated	I - Exterior							20	0.0		16.1	322	Btuh
2	Insulated	I - Garage							20	0.0		16.1	322	Btuh
	Door To	otal							4	0 (sqft)			644	Btuh
Ceilings	Type/C	olor/Surf	ace		U	-Value		R-Value				HTM	Load	
1	Vented A	ttic/DarkSh	ina l e/R	В		0.025		38.0/0.0		39.8		1,24	2475	Btuh
·	Ceiling			_		01020		0010/010		00 (sqft)			2475	
Floors	Type						R-\	/alue	Si			HTM	Load	
1	Slab On	Grade				0.0			18	95 (ft-perir	neter)	0.0	0	Btuh
·	Floor Total			18				895.0 (sqft)						
	1 1001 1	Floor Total 1895.0 (sqft) 0 Btuh								Dian				
									Е	nvelope	Subtota	l:	11987	Btuh
Infiltration	Туре				Δνρι	age A	CH	Volu	me(cuft) Wall R	atio	CFM=	Load	
auon	Natural	I			, (۷0)	age /	0.12	v Olul	17055		allo	35.0		Btuh
Internal	Ivatura					Occup				cupant		Appliance	Load	Bluii
						Occup					,			Dtole
gain							6		C 23	0 +		1200	2580	Btun
	Sensible Envelope Load:								15488	Btuh				
Duct load	d Average sealed,Supply(R6.0-Attic), Re				Return(R6.0-Attic) (DGN				/I of 0.397)		6144	Btuh		
									Sen	sible Lo	oad All	Zones	21632	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

N/A 176 SW Kimberly Lane Lake City, FL 32025

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A 176 SW Kimberly Lane

1/29/2024

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	15488	Btuh			
	Sensible Duct Load Total Sensible Zone Loads					
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0	Btuh			
	Blower	0	Btuh			
Whole House	Total sensible gain	21632	Btuh			
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	1280	Btuh			
	Latent ventilation gain	0	Btuh			
	Latent duct gain	1534	Btuh			
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh			
	Latent other gain	0	Btuh			
	Latent total gain					
	TOTAL GAIN	25646	Btuh			

EQUIPMENT								
1. Central Unit	#	23457 Btuh						

*Key: Window types (Panes - 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(1/2))

(Ornt - compass orientation)



Version 8