FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Model 1407_			Builder Name:	- 기계에 대표 - 1위 기계	
Street:	139 SE Rachael Way			Permit Office:	Columbia County	
City, State, Zip:	Lake City , FL , 32025)		Permit Number Jurisdiction:		
Owner: Design Location:	FL, Gainesville			County:	Columbia (Florida Climate	eZone 2)
Design Education.	T E, Gamesville			County.		
1. New construction	or existing	New (F	rom Plans)	9. Wall Types		Insulation Area
2. Single family or mu	ultiple family	Single	-family	GUALDO SA GUADA DE SE	Vood, Exterior Vood, Adjacent	R=13.0 1136.00 ft ² R=13.0 160.00 ft ²
3. Number of units, if	f multiple family	1		c. N/A		R= ft²
4. Number of Bedroo	oms	3		d. N/A		R= ft²
5. Is this a worst cas	e?	No		10. Ceiling Type a. Under Atti	es (1477.0 sqft.) ic (Vented)	Insulation Area R=38.0 1477.00 ft ²
6. Conditioned floor	area above grade (ft²)	1407		b. N/A	(1 m m m m m m m m m m m m m m m m m m	R= ft²
Conditioned floor a	area below grade (ft²)	0		c. N/A		R= ft²
7. Windows (189.0 s			Area	11. Ducts	, Ret: Attic, AH: Main	R ft ² 6 351.75
a. U-Factor:	Dbl, U=0.36		189.00 ft²		1.0 00000000000000000000000000000000000	
SHGC:	SHGC=0.25			12. Cooling sys	toms	kBtu/hr Efficiency
b. U-Factor:	N/A		ft²	a. Central U		16.4 SEER:14.00
SHGC: c. U-Factor:	N/A		ft²			
SHGC:	5.550			13. Heating sys	stems	kBtu/hr Efficiency
d. U-Factor:	N/A		ft²	a. Electric H	eat Pump	21.8 HSPF:8.20
SHGC:	raraa Overbana Donth		1.500 ft.			
Area Weighted Av	erage Overhang Depth: erage_SHGC:		0.250	14. Hot waters	ystems	
8. FloorTypes (140	A Secretary	Insulation	Area	a. Electric		Cap: 50 gallons
a. Slab-On-Grade		R=0.0	1407.00 ft²	h Consens	ationfeatures	EF: 0.920
b. N/A		R=	ft²	None	attorneatures	
c. N/A		R=	ft²	15. Credits		CV, Pstat
		Tatali	Danasad Madifia	d Looder 20 69		
Glass/Floor Area	a: 0.134	lotail	Proposed Modifie			PASS
			Total Baseline	Loads: 40.59	1	
	at the plans and spe			Review of the		OF THE STATE
The state of the s	e in compliance with	the Florid	a Energy	specifications		
Code.	1				icates compliance a Energy Code.	2 5
PREPARED BY	·	1 1			ction is completed	H T I TESPERATE TO BE
DATE:	6/1	15/2020			ill be inspected for	CAR CARE
A CONTRACTOR OF THE CONTRACTOR	,	/			th Section 553.908	1.
	at this building, as d	esigned, is	in compliance	Florida Statute	s.	12 7 15
with the Florida E	nergy Code.					COD WE TRUS
OWNER/AGEN	Т:		N	BUILDING O	FFICIAL:	- Control of the Cont
				DATE:		
D. Comments of the Comment of the Co						

- 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.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

				PROJE	СТ							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Model 1407_ User 1 PFS Solutions, Ir Columbia County Single-family New (From Plans	/	Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Venti Whole Hous	IArea: s: :: e: lation:	3 1407 1 No 0 Yes No		Lot # Block PlatB Stree Coun	k/Subdivis look: et:	sion: 13 C o: La	treet Addre 39 SE Racl olumbia ake City , L , 3202	nael Wa	у
				CLIMA	TE							
	gn Location	TMY Site	DECL	97.		Wint		ier Deg	eating ree Days		e Ra	Temp
FL,	Gainesville	FL_GAINESVILLE	_KEGI	BLOCK	2 92	70	75	1	305.5	51	IVIE	edium
Number	Name	Area	Volume	BLOCK								
1	Block1	1407	11256									
				SPACE	-s							
Number	Name	Area	Volume K		Occupants	Bedroo	oms li	nfil ID	Finished	d Coo	led	Heate
	Main	1407	11256	Yes	6	3	1		Yes	Yes		Yes
				FLOOF	RS							
	Floor Type o-On-Grade Edge Ir	Space	Perin		R-Value 0	Area				Tile Wo		rpet 1
				ROOI								
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitc (deg
1	Hip	Composition shing	les 1574 ft²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	26.0
				ATTIC								
√ #	Туре	Ventil	ation	Vent Ratio	o (1 in)	Area	RBS	IR	СС			
1	Full attic	Ven	ted	300	,	1407 ft²	Υ	1	N			
				CEILIN	IG							
V #	Ceiling Type		Space	R-Value	Ins Ty	pe	Area	Fran	ning Fra	c Truss	Туре	
1	Under Attic (Ven	ted)	Main	38	Double E	Batt	1477 ft²		0.11	Wo	od	

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	Ornt		djace Fo	nt Wall	Tyne	Space	Cavity R-Value	Wid Ft		Height t In	Area	Sheathing R-Value	Framing	Solar Absor	Belov Grade
1	S		terior		ne - Wood	Main	13	20	8		160.0 ft ²		0.23	0.75	Grade
2	S	Ext	terior	Frar	ne - Wood	Main	13	16	8	3	128.0 ft ²		0.23	0.75	C
3	S	Ga	rage	Fran	ne - Wood	Main	13	20	8	3	160.0 ft ²		0.23	0.75	C
4	Е	Ext	terior	Fran	ne - Wood	Main	13	25	8	3	200.0 ft ²		0.23	0.75	C
5	Ν	Ext	terior	Fran	ne - Wood	Main	13	56	8	3	448.0 ft ²		0.23	0.75	C
6	W	Ext	terior	Fran	me - Wood	Main	13	25	8	3	200.0 ft ²		0.23	0.75	(
							DO	ORS							
\checkmark	#		Ornt		Door Type	Space			Storms	U-Va	lue F	Width t In	Height Ft I	ln	Area
	1		S		Insulated	Main			None	.46	;	3	6	8 :	20 ft²
	2		S		Insulated	Main			None	.46	5 2	2 8	6	8 1	7.8 ft²
						Orientation sh		OOWS		oriontation					
,		,	Wall			nentationsii	OWITIS LITE EI	itereu, r	Toposeu C	nentation		erhang			
\checkmark	#			Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	de :	Screeni
	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	0 ft 6 in	None)	None
	2	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	0 ft 6 in	None)	None
	3	Е	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
	4	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	60.0 ft ²	1 ft 6 in	0 ft 6 in	None)	None
	5	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
	6	N	5	Metal	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
							GAF	RAGE							
$\sqrt{}$	#		Floor	r Area	Ceilin	g Area	Exposed \	Vall Per	meter	Avg. W	/all Height	Expose	ed Wall Ins	ulation	
	1		446	.6 ft²	446.	6 ft²	64	.67 ft			8 ft		1		
							INFILT	RATIC	N						
S	Scope		М	lethod		SLA	CFM 50	ELA	E	qLA	ACH	ACH	1 50		
	olehous	e l		sedAC	H(50) .00	0254	938	51.49		6.84	.0956	5			
			-				HEATING	SYS	ТЕМ						
V	#	Syst	em Ty	уре	Sı	ıbtype	Speed		Efficiency	/	Capacity		E	Block	Ducts
ν	1			eat Pum		one	Single		HSPF:8.2		.77 kBtu/hr			1	sys#1

INPUT SUMMARY CHECKLIST REPORT

ORIVI R4			INP				NG SYS		PORT						
$\sqrt{}$	# :	System Type		Subtype	Э	Subty	ре	Efficiency	Capacity	Air	Flow	SHR	Block	Du	cts
	1 (Central Unit/		None		Single	•	SEER: 14	16.38 kBtu/h	nr 480	cfm	0.7	1	sys	s#1
					НС	OT WA	TER SY	STEM							
\bigvee	#	System Type	SubType	Locat	ion	EF	Ca	р	Use	SetPnt		Сс	nservatio	n	
	1	Electric	None	Gara	ge	0.92	50 ຢູ	jal	40 gal	120 deg			None		
				;	SOLAF	к нот	WATER	SYSTE	ΕM						
\checkmark	FSEC Cert #	Company Na	ame		s	ystem Mo	odel#	Co	ollector Model		ollector Area	r Stor Volu	-	FEF	
	None	None									ft²				
						D	UCTS								_
\checkmark	#	Sup Location R			- Return ation	 Area	Leaka	geType	Air Handler	CFM 25 TOT	CFM OU		RLF	HVA Heat	
	1	Attic	6 351.75	f At	tic 7	0.35 ft²	Default	Leakage	Main	(Default)	c(Defa	ult) c		1	1
						TEMP	ERATUI	RES							
Program	nableThe	rmostat: Y			Ceilin	g Fans:									
Cooling Heating Venting	[X] Ja	an [] Feb an [X] Feb an [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [Apr [X] Apr	[] N	May May May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Se [] Se [] Se	p p p	Oct Oct X) Oct	[] Nov [X] Nov [X] Nov	$[\times]$	Dec Dec Dec
Thermosta		ıle: HERS 200	06 Reference						ours						
Schedule 1	•		1	2	3	4	5	6	7	8	9	10	11		2
Cooling (W	VD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8 7	8
Cooling (W	VEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	8'8
Heating (W	VD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8
Heating (W	VEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		i8 i6
		1 141		55			MASS	30				00			<u> </u>
Ma	ass Type)		Area		1	Thickness		Furniture Fra	ction		Space			
De	efault(8 lb	os/sq.ft.		0 ft²			0 ft		0.3			Main			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R 6.0 b) Return ducts R 6.0
3. No. of units (if multiple-family)	31	c) AHU location Main
4. Number of bedrooms	43	13. Cooling system: Capacity 16.4 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	61407	d) Room unit/PTAC EER
7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area	7a. 0.360 7b. 0.250 7c. 189.0	14. Heating system: Capacity 21.8 a) Split system heat pump HSPF
8. Skylights		b) Single package heat pump HSPF c) Electric resistance COP
a) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)	8a <u>NA</u> 8b <u>NA</u>	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.20
9. Floor type, insulation level: a) Slab-on-grade (R-value)	00 00	f) Other 8.20
	9a0.0	1E Motor booting quotom
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.92 b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank EF
 Wood frame (Insulation R-value) 	10A1. <u>13.0</u>	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
1. Wood frame (Insulation R-value)	10B1. 13.0	5 ,
2. Masonry (Insulation R-value)	10B2.	
, (16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. <u>38.0</u>	b) Cross ventilation Yes
b) Single assembly	11b.	c) Whole house fan No
c) Knee walls/skylight walls	11c.	d) Multizone cooling credit
d) Radiant barrier installed	11d. Yes	e) Multizone heating credit
d) radiant barrier initialied	110100	f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	Florida Building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or ex display card will be completed based on inst	ceeded) in this home befo	
Builder Signature:		Date:
Address of New Horse 400 OF Date 1999	t	O'ty/FL 7'ty Lyly O'ty FL 00005
Address of New Home: 139 SE Rachael W	av	City/FL Zip: Lake City, FL 32025

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:	Permit #:
Jol	Information	
Bui	der: PFS Solutions, Inc. Community:	Lot: NA
Add	lress: 139 SE Rachael Way	
City	r: Lake City Stat	e: FL Zip: 32025
Aiı	Leakage Test Results Passing results must mee	t either the Performance, Prescriptive, or ERI Method
the	changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir PERFORMANCE or ERI METHOD-The building or dwelling unit sh	all be tested and verified as having an air leakage rate of not exceeding) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
	x 60 ÷ 11256 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 installation Field measured and calculated
Tes 489 pro Du 1. E cor 2. I me 3. I 4. E 5. I	sting shall be conducted by either individuals as defined in Section 553. 1.105(3)(f), (g), or (i) or an approved third party. A written report of the revided to the official. Testing shall be performed at any time after creating testing: Exterior windows and doors, fireplace and stove doors shall be closed, but trol measures.	ation of all penetrations of the uilding thermal envelope. but not sealed, beyond the intended weatherstripping or other infiltration pers shall be closed, but not sealed beyond intended infiltration control tilators shall be closed and sealed. turned off.
Т	esting Company	
11	ompany Name: nereby verify that the above Air Leakage results are in accordance to the compliance of the complian	
S	gnature of Tester:	Date of Test:
Р	rinted Name of Tester:	
Li	cense/Certification #:	Issuing Authority:

Residential System Sizing Calculation

Summary

139 SE Rachael Way Lake City, FL 32025 Project Title: Model 1407_

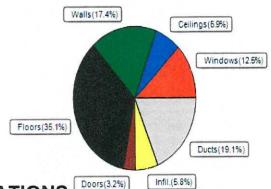
3/6/2020

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(152 ft.) Ter	np Range(N	I)
Humidity data: Interior RH (50%	6) Outdoo	r wet bulb (77F) Humidity difference(51gr.)		
Winter design temperature(TMY3	399%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	21767	Btuh	Total cooling load calculation	16384	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.0	21767	Sensible (SHR = 0.70)	85.8	11469
Heat Pump + Auxiliary(0.0kW)	100.0	21767	Latent	163.0	4915
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Total (Electric Heat Pump)	100.0	16384

WINTER CALCULATIONS

Winter Heating Load (for 1407 sqft)

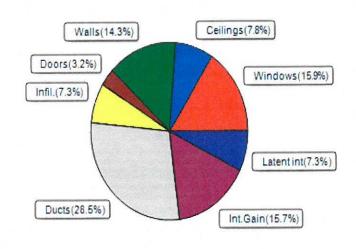
Load component			Load	100
Window total	189	sqft	2722	Btuh
Wall total	1069	sqft	3796	Btuh
Door total	38	sqft	695	Btuh
Ceiling total	1477	sqft	1499	Btuh
Floor total	1407	sqft	7646	Btuh
Infiltration	29	cfm	1257	Btuh
Duct loss			4152	Btuh
Subtotal			21767	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			21767	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1407 sqft)

Load component	25.0		Load	
Window total	189	sqft	2607	Btuh
Wall total	1069	sqft	2338	Btuh
Door total	38	sqft	521	Btuh
Ceiling total	1477	sqft	1275	Btuh
Floor total			0	Btuh
Infiltration	22	cfm	448	Btuh
Internal gain			2580	Btuh
Duct gain			3600	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			13369	Btuh
Latent gain(ducts)			1072	Btuh
Latent gain(infiltration)			743	Btuh
Latent gain(ventilation)		1	0	Btuh
Latent gain(internal/occu	pants/othe	er)	1200	Btuh
Total latent gain		3	3015	Btuh
TOTAL HEAT GAIN			16384	Btuh





PREPARED BY:

DATE:

DATE:

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

139 SE Rachael Way Lake City, FL 32025 Project Title: Model 1407_ Building Type: User

3/6/2020

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

Window	Panes/Type	Frame U	Orientatio	n Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl 0.	36 S	30.0	14.4	432 Btuh
2	2, NFRC 0.25	Vinyl 0.	36 S	30.0	14.4	432 Btuh
3	2, NFRC 0.25	Vinyl 0.	36 E	20.0	14.4	288 Btuh
4	2, NFRC 0.25	Vinyl 0.	36 N	60.0	14.4	864 Btuh
5	2, NFRC 0.25	Vinyl 0.	36 N	9.0	14.4	130 Btuh
6	2, NFRC 0.25	Metal 0.	36 N	40.0	14.4	576 Btuh
	Window Total			189.0(sqft)		2722 Btuh
Walls	Туре	Ornt. Ueff.	R-Value		HTM=	Load
	_ ,,, ,	- , ,, ,,	(Cav/Sh		0.55	400 B. I
1	Frame - Wood	- Ext (0.08	,		3.55	462 Btuh
2	Frame - Wood	- Ext (0.08	,		3.55	277 Btuh
3	Frame - Wood	- Adj (0.08	,		3.55	505 Btuh
4	Frame - Wood	- Ext (0.08	,		3.55	639 Btuh
5	Frame - Wood	- Ext (0.08			3.55	1204 Btuh
6	Frame - Wood	- Ext (0.08	9) 13.0/0.		3.55	710 Btuh
	Wall Total			1069(sqft)		3796 Btuh
Doors	Туре	Storm Uef		Area X	HTM=	Load
1	Insulated - Exte		,	20	18.4	368 Btuh
2	Insulated - Gara	ige, n (0.46	0)	18	18.4	327 Btuh
.	Door Total			38(sqft)		695Btuh
Ceilings	Type/Color/Surf		R-Value		HTM=	Load
1	Vented Attic/L/S	shing (0.025)	38.0/0.0		1.0	1499 Btuh
- 1	Ceiling Total		- CC - D \ / - L -	1477(sqft)		1499Btuh
Floors	Type		eff. R-Value		HTM=	Load
1	Slab On Grade	(1.	180) 0.0		erim.) 47.2	7646 Btuh
	Floor Total			1407 sqft		7646 Btuh
				Envelope Sub	total:	16359 Btuh
Infiltration	Туре	Wholehous	se ACH Volum	ne(cuft) Wall Ra	atio CFM=	
 	Natural		0.15 112	` '	I	1257 Btuh
Duct load	Average sealed	, R6.0, Supply	r(Att), Return(A	Att) (DLI	M of 0.236)	4152 Btuh
All Zones			Sensib	ole Subtotal All	Zones	21767 Btuh

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

139 SE Rachael Way Lake City, FL 32025 Project Title: Model 1407_

3/6/2020

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

	Type*		Over	hang	Wind	ow Area	a(sqft)	Н	ITM	Load	
Window	Panes SHGC U InSh	IS Ornt	Len	Hat	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC 0.25, 0.36 No	No S	1.5ft.	0.5ft.	30.0	30.0	0.0	12	14	363	Btuh
2	2 NFRC 0.25, 0.36 No	No S	1.5ft.	0.5ft.	30.0	30.0	0.0	12	14	363	Btuh
3	2 NFRC 0.25, 0.36 No	No E	1.5ft.	0.5ft.	20.0	3.0	17.0	12	31	563	Btuh
4	2 NFRC 0.25, 0.36 No	No N	1.5ft.	0.5ft.	60.0	0.0	60.0	12	12	726	Btuh
5	2 NFRC 0.25, 0.36 No	No N	1.5ft.	0.5ft.	9.0	0.0	9.0	12	12	109	Btuh
6	2 NFRC 0.25, 0.36 No	No N	1.5ft.	0.5ft.	40.0	0.0	40.0	12	12		Btuh
	Window Total				189 (s	sqft)				2607	Btuh
Walls	Туре	U	-Value	e R-∖	/alue	Area	(sqft)		HTM	Load	
				Cav/S	heath						
1	Frame - Wood - Ext	(0.09	13.0	/0.0	13	0.0		2.3	294	Btuh
2	Frame - Wood - Ext	(0.09	13.0	/0.0	78	3.0		2.3	177	Btuh
3	Frame - Wood - Adj	(0.09	13.0	/0.0	14:	2.2		1.7	240	Btuh
4	Frame - Wood - Ext		0.09	13.0			0.0		2.3	407	
5	Frame - Wood - Ext		0.09	13.0			9.0		2.3		Btuh
6	Frame - Wood - Ext		0.09	13.0	/0.0		0.0		2.3		Btuh
	Wall Total					106	9 (sqft)			2338	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					20	0.0		13.8	276	Btuh
2	Insulated - Garage					17	'.8		13.8	245	Btuh
	Door Total					3	8 (sqft)			521	Btuh
Ceilings	Type/Color/Surface	U	-Value	Э	R-Value				HTM	Load	
1	Vented Attic/Light/Shingle/I	RB	0.025	;	38.0/0.0	147	7.0		0.86	1275	Btuh
	Ceiling Total					147	7 (sqft)			1275	Btuh
Floors	Type			R-V	/alue	Si	· · ·		HTM	Load	
1	Slab On Grade				0.0	14	07 (ft-perin	neter)	0.0		Btuh
	Floor Total				0.0		.0 (sqft)	ilotoi)	0.0	_	Btuh
	1 loor Total					1407	.o (3q1t)			0	Dian
						E	nvelope	Subtota	d:	6741	Btuh
Infiltration	Type	Aver	age A	CH	Volur	ne(cuft) Wall R	atio	CFM=	Load	
	Natural	, (701	ago /	0.11	VOIGI	11256	,	440	21.5	448	Btuh
Internal	ivaturai		Occup		ı		cupant		Appliance	Load	Diuii
			Occup					,			Dtu
gain				6	· ·	(23	0 +		1200	2580	Btuh
						S	ensible E	Envelop	e Load:	9769	Btuh
Duct load	Average sealed,Supply(R6	3.0-Attic), Re	eturn(R	6.0-Attic	;)		(DGI	M of 0.3	69)	3600	Btuh
						Sen	sible Lo	oad All	Zones	13369	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

139 SE Rachael Way Lake City, FL 32025 Project Title: Model 1407_ Climate:FL_GAINESVILLE_REGIONAL_A

3/6/2020

WHOLE HOUSE TOTALS

	1		
	Sensible Envelope Load All Zones	9769	Btuh
	Sensible Duct Load	3600	Btuh
	Total Sensible Zone Loads	13369	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	13369	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	743	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1072	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3015	Btuh
	TOTAL GAIN	16384	Btuh

EQUIPMENT		
1. Central Unit	#	16384 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