

Project Name: Nowrey Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville				Builder Name: Permit Office: Permit Number: Jurisdiction: 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) 2078 Conditioned floor area below grade (ft²) 0 7. Windows(251.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 251.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.200 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 2078.00 ft² b. N/A R= ft² c. N/A R= ft²				10. Wall Types(1970.5 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1702.00 ft² b. Frame - Wood, Adjacent R=13.0 268.50 ft² c. N/A d. N/A 11. Ceiling Types(2078.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=30.0 2078.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=30.0 2497 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Garage 6 416 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 42.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 42.0 HSPF2:7.80 16. Hot Water Systems a. PropaneTankless Cap: 1 gallons EF: 0.590 b. Conservation features None 17. Credits CF, Pstat			

PASS

The Seal of the State of Florida is a circular emblem. The outer ring contains the text "GREAT SEAL OF THE STATE OF FLORIDA" at the top and "IN GOD WE TRUST" at the bottom, separated by two stars. The central image depicts a woman in a long dress standing on a shore, holding a torch. A palm tree stands behind her. In the background, a ship is visible on the water, and a sun with rays is rising over the horizon.

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INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Nowrey Residence				Address type:		Street Address																	
Building Type:	User				Bedrooms:	3	Lot #:	---																
Owner:					Conditioned Area:	2078	Block/SubDivision:	---																
Builder Home ID:					Total Stories:	1	PlatBook:	---																
Builder Name:					Worst Case:	No	Street:																	
Permit Office:					Rotate Angle:	0	County:	Columbia																
Jurisdiction:					Cross Ventilation:		City, State, Zip:	, FL,																
Family Type:	Detached				Whole House Fan:																			
New/Existing:	New (From Plans)				Terrain:	Rural																		
Year Construct:	2023				Shielding:	Moderate/Rural																		
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		2078		18702 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	Main		2078		18702		Yes		6		3		Yes		Yes		Yes							
FLOORS (Total Exposed Area = 2078 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		234		0		2078 ft		0.563		---		0.20		0.60		0.20					
ROOF																								
✓ #	Type		Materials		Roof Area		Gable Area		Roof Color		Rad Barr		Solar Absor.		SA Tested		Emitt		Emitt Tested		Deck Insul.		Pitch (deg)	
___ 1	Gable or shed		Composition shingles		2497 ft²		692 ft²		Dark		N		0.96		No		0.9		No		30		33.69	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	No attic		Unvented		0		2078 ft²		N		N													
CEILING (Total Exposed Area = 2078 sq.ft.)																								
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
___ 1	Single assembly, no airspace(Unvented)		Main		30.0		Blown		2078.0ft²		0.032		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1971 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	N	Exterior	Frame - Wood	Main	13.0	61.0	0	10.0	0	610.0	0.094		0.23	0.75	0 %				
___ 2	E	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.094		0.23	0.75	0 %				
___ 3	N	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.094		0.23	0.75	0 %				
___ 4	E	Exterior	Frame - Wood	Main	13.0	18.0	8	9.0	0	168.0	0.094		0.23	0.75	0 %				
___ 5	S	Garage	Frame - Wood	Main	13.0	29.0	10	9.0	0	268.5	0.094		0.23	0.75	0 %				
___ 6	S	Exterior	Frame - Wood	Main	13.0	20.0	0	10.0	0	200.0	0.094		0.23	0.75	0 %				
___ 7	W	Exterior	Frame - Wood	Main	13.0	2.0	10	10.0	0	28.3	0.094		0.23	0.75	0 %				
___ 8	S	Exterior	Frame - Wood	Main	13.0	7.0	2	10.0	0	71.7	0.094		0.23	0.75	0 %				
___ 9	E	Exterior	Frame - Wood	Main	13.0	6.0	0	9.0	0	54.0	0.094		0.23	0.75	0 %				
___ 10	S	Exterior	Frame - Wood	Main	13.0	15.0	10	9.0	0	142.5	0.094		0.23	0.75	0 %				
___ 11	W	Exterior	Frame - Wood	Main	13.0	37.0	6	9.0	0	337.5	0.094		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 132 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²			
___ 2	N	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²			
___ 3	S	Garage	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 4	S	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²			

WINDOWS															(Total Exposed Area = 251 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	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	90.0	5	3.00	6.00	1.5	2.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	12.0	1	3.00	4.00	1.5	2.3	None	None
___ 3	E	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	2.3	None	None
___ 4	S	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	54.0	3	3.00	6.00	1.5	2.3	None	None
___ 5	S	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	16.0	2	1.00	8.00	1.5	2.3	None	None
___ 6	S	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	25.0	2	2.50	5.00	1.5	2.3	None	None
___ 7	W	11	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	3	2.00	6.00	1.5	2.3	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00028	1524	83.62	156.99	0.1004	4.9	All	18702 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	544 ft²	544 ft²	68 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

INPUT SUMMARY CHECKLIST REPORT

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: 7.80	42.0		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	42.0	1260	0.85	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Propane	Tankless	Exterior	0.59 (0.59)	1.00 gal	60 gal	120 deg	Standard	None	99
	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	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Main 6.0 416 ft²	Main 6.0 104 ft²	Prop. Leak Free	Garage	---	---	0.03	0.50	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	7	8	9	10	11	12	
___ Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	
___ Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	

Residential System Sizing Calculation

Summary

Project Title:
Nowrey Residence

, FL

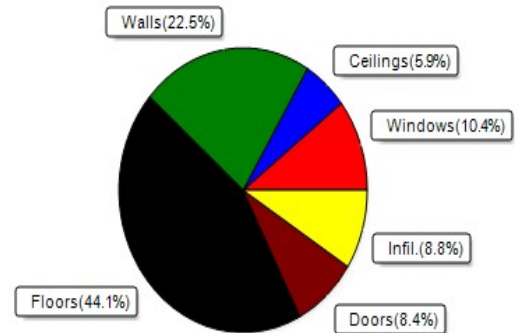
12/12/2023

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(100 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
Total heating load calculation	25072 Btuh	Total cooling load calculation	17167 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	167.5 42000	Sensible (SHR = 0.85)	243.4 35700
Heat Pump + Auxiliary(0.0kW)	167.5 42000	Latent	252.1 6300
		Total (Electric Heat Pump)	244.7 42000

WINTER CALCULATIONS

Winter Heating Load (for 2078 sqft)

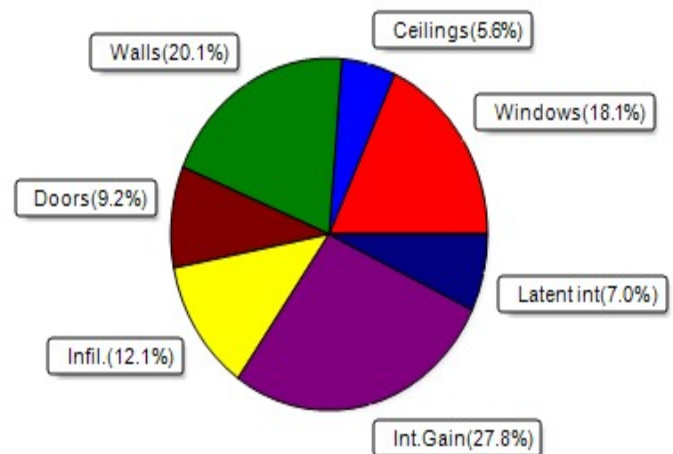
Load component	Load
Window total 251 sqft	2610 Btuh
Wall total 1587 sqft	5636 Btuh
Door total 132 sqft	2112 Btuh
Ceiling total 2078 sqft	1471 Btuh
Floor total 2078 sqft	11045 Btuh
Infiltration 50 cfm	2197 Btuh
Duct loss	0 Btuh
Subtotal	25072 Btuh
Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS	25072 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2078 sqft)

Load component	Load
Window total 251 sqft	3116 Btuh
Wall total 1587 sqft	3450 Btuh
Door total 132 sqft	1584 Btuh
Ceiling total 2078 sqft	956 Btuh
Floor total	0 Btuh
Infiltration 38 cfm	783 Btuh
Internal gain	4780 Btuh
Duct gain	0 Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load	0 Btuh
Total sensible gain	14668 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	1299 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
Total latent gain	2499 Btuh
TOTAL HEAT GAIN	17167 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

12-11-23

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Nowrey Residence

, FL

12/12/2023

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	0.20, 0.26	No	No	N		1.5ft	2.3ft	90.0	0.0	90.0	9	9	823	Btuh
2	2 NFRC	0.20, 0.26	No	No	N		1.5ft	2.3ft	12.0	0.0	12.0	9	9	110	Btuh
3	2 NFRC	0.20, 0.26	No	No	E		1.5ft	2.3ft	18.0	0.0	18.0	9	24	436	Btuh
4	2 NFRC	0.20, 0.26	No	No	S		1.5ft	2.3ft	54.0	54.0	0.0	9	11	494	Btuh
5	2 NFRC	0.20, 0.26	No	No	S		1.5ft	2.3ft	16.0	12.4	3.6	9	11	152	Btuh
6	2 NFRC	0.20, 0.26	No	No	S		1.5ft	2.3ft	25.0	25.0	0.0	9	11	229	Btuh
7	2 NFRC	0.20, 0.26	No	No	W		1.5ft	2.3ft	36.0	0.0	36.0	9	24	872	Btuh
	Window Total								251 (sqft)					3116 Btuh	
Walls	Type	U-Value			R-Value		Area(sqft)			HTM		Load			
					Cav/Sheath										
1	Frame - Wood - Ext				0.09	13.0/0.0			420.0			2.3	951	Btuh	
2	Frame - Wood - Ext				0.09	13.0/0.0			45.0			2.3	102	Btuh	
3	Frame - Wood - Ext				0.09	13.0/0.0			45.0			2.3	102	Btuh	
4	Frame - Wood - Ext				0.09	13.0/0.0			150.0			2.3	340	Btuh	
5	Frame - Wood - Adj				0.09	13.0/0.0			248.5			1.7	419	Btuh	
6	Frame - Wood - Ext				0.09	13.0/0.0			146.0			2.3	330	Btuh	
7	Frame - Wood - Ext				0.09	13.0/0.0			28.3			2.3	64	Btuh	
8	Frame - Wood - Ext				0.09	13.0/0.0			31.7			2.3	72	Btuh	
9	Frame - Wood - Ext				0.09	13.0/0.0			54.0			2.3	122	Btuh	
10	Frame - Wood - Ext				0.09	13.0/0.0			117.5			2.3	266	Btuh	
11	Frame - Wood - Ext				0.09	13.0/0.0			301.5			2.3	682	Btuh	
	Wall Total								1587 (sqft)					3450 Btuh	
Doors	Type							Area (sqft)			HTM		Load		
1	Insulated - Exterior								40.0			12.0	480	Btuh	
2	Insulated - Exterior								48.0			12.0	576	Btuh	
3	Insulated - Garage								20.0			12.0	240	Btuh	
4	Insulated - Exterior								24.0			12.0	288	Btuh	
	Door Total								132 (sqft)					1584 Btuh	
Ceilings	Type/Color/Surface	U-Value			R-Value		Area(sqft)			HTM		Load			
1	SnglAsmb no airsp/DarkShingle				0.018	30.0/30.0			2078.0			0.46	956	Btuh	
	Ceiling Total								2078 (sqft)					956 Btuh	
Floors	Type				R-Value			Size			HTM		Load		
1	Slab On Grade							0.0	2078 (ft-perimeter)			0.0	0	Btuh	
	Floor Total								2078.0 (sqft)					0 Btuh	
	Envelope Subtotal:													9106 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Nowrey Residence

, FL

12/12/2023

Infiltration	Type Natural	Average ACH 0.12	Volume(cuft) 18702	Wall Ratio 1	CFM= 37.6	Load 783 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	Appliance +	3400	Load 4780 Btuh
	Sensible Envelope Load:					14668 Btuh
Duct load	Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi) (DGM of 0.000)					0 Btuh
	Sensible Load All Zones					14668 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Nowrey Residence

, FL

12/12/2023

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	14668 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	14668 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	14668 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1299 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2499 Btuh
	TOTAL GAIN	17167 Btuh

EQUIPMENT

1. Central Unit	#	42000 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

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Nowrey Residence
Building Type: User

, FL

12/12/2023

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 0.20	Vinyl	0.26	N	90.0		10.4	936 Btuh
2	2, NFRC 0.20	Vinyl	0.26	N	12.0		10.4	125 Btuh
3	2, NFRC 0.20	Vinyl	0.26	E	18.0		10.4	187 Btuh
4	2, NFRC 0.20	Vinyl	0.26	S	54.0		10.4	562 Btuh
5	2, NFRC 0.20	Vinyl	0.26	S	16.0		10.4	166 Btuh
6	2, NFRC 0.20	Vinyl	0.26	S	25.0		10.4	260 Btuh
7	2, NFRC 0.20	Vinyl	0.26	W	36.0		10.4	374 Btuh
	Window Total				251.0(sqft)			2610 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	420		3.55	1491 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	45		3.55	160 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	45		3.55	160 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	150		3.55	533 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	249		3.55	882 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	146		3.55	518 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	28		3.55	101 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	32		3.55	112 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	54		3.55	192 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	118		3.55	417 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	302		3.55	1070 Btuh
	Wall Total				1588(sqft)			5636 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)		40		16.0	640 Btuh
2	Insulated - Exterior,	n	(0.400)		48		16.0	768 Btuh
3	Insulated - Garage,	n	(0.400)		20		16.0	320 Btuh
4	Insulated - Exterior,	n	(0.400)		24		16.0	384 Btuh
	Door Total				132(sqft)			2112Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Single as/D/Shing		(0.018)	30.0/30.0	2078		0.71	1471 Btuh
	Ceiling Total				2078(sqft)			1471Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	234.0 ft(perim.)		47.2	11045 Btuh
	Floor Total				2078 sqft			11045 Btuh
	Envelope Subtotal:							22875 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.16	18702	1.00	50.1		2197 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

, FL

Project Title:
Nowrey Residence
Building Type: User

12/12/2023

Duct load	Extremely sealed, R6.0, Supply(Con), Return(Con) (DLM of 0.000)	0 Btuh
All Zones	Sensible Subtotal All Zones	25072 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	25072 Btuh 0 Btuh 25072 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	42000 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