



Load Short Form

Entire House

Heat Load USA

Job: 669 SW Pleasant Terr - F...
 Date: Feb 05, 2025
 By: www.heatloadusa.com

4 Marshall Drive, Egg Harbor, NJ 08234 Phone: 973-544-6800 Email: info@heatloadusa.com Web: www.heatloadusa.com

Project Information

For: 669 SW Pleasant Terr, Ft. White, FL 32038

Design Information

	Htg	Clg	Method	Infiltration	Simplified Average
Outside db (°F)	33	93			
Inside db (°F)	70	75	Construction quality		
Design TD (°F)	37	18	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	11	42			

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	566 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.84

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
1-Main Floor	576	13451	10581	0	483
2-Loft	244	2537	1816	0	83
Entire House	820	15988	12397	0	566
Other equip loads		940	457		
Equip. @ 0.98 RSM			12598		
Latent cooling			2401		
TOTALS	820	16928	14999	0	566

Bold/italic values have been manually overridden

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Project Summary

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Project Information

For: 669 SW Pleasant Terr, Ft. White, FL 32038

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
 Inside db 70 °F
 Design TD 37 °F

Ventilation Method ASHRAE 62.2-2010

Heating Summary

Structure 15988 Btuh
 Ducts 0 Btuh
 Central vent (23 cfm) 940 Btuh
 Outside air
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 16928 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft ²)	820	820
Volume (ft ³)	8694	8694
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	88	46

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Summer Design Conditions

Outside db 93 °F
 Inside db 75 °F
 Design TD 18 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 42 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 12397 Btuh
 Ducts 0 Btuh
 Central vent (23 cfm) 457 Btuh
 Outside air
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.98
 Equipment sensible load 12598 Btuh

Latent Cooling Equipment Load Sizing

Structure 1734 Btuh
 Ducts 0 Btuh
 Central vent (23 cfm) 667 Btuh
 Outside air
 Equipment latent load 2401 Btuh

Equipment Total Load (Sen+Lat) 14999 Btuh
 Req. total capacity at 0.84 SHR 1.2 ton

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	566 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.84

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Building Analysis

Entire House

Heat Load USA

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 Date: Feb 05, 2025
 By: www.heatloadusa.com

4 Marshall Drive, Egg Harbor, NJ 08234 Phone: 973-544-6800 Email: info@heatloadusa.com Web: www.heatloadusa.com

Project Information

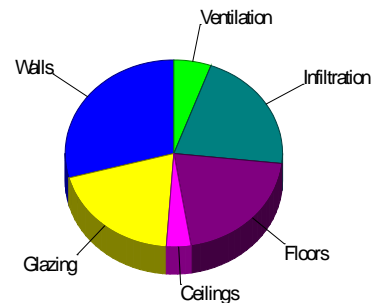
For: 669 SW Pleasant Terr, Ft. White, FL 32038

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation: 123 ft		Design TD (°F)		37	18
Latitude: 30°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		10.6	42.5
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	33	93	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	76	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

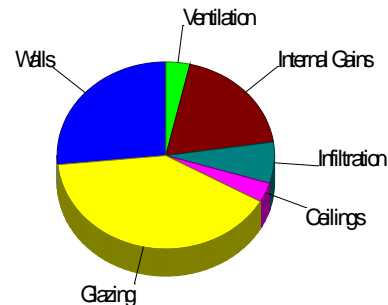
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.8	4944	29.2
Glazing	14.8	3331	19.7
Doors	0	0	0
Ceilings	1.1	618	3.7
Floors	6.1	3513	20.8
Infiltration	2.4	3581	21.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		940	5.6
Adjustments		0	0
Total		16928	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.6	3414	26.6
Glazing	23.0	5174	40.3
Doors	0	0	0
Ceilings	0.8	435	3.4
Floors	0	0	0
Infiltration	0.6	914	7.1
Ducts		0	0
Ventilation		457	3.6
Internal gains		2460	19.1
Blower		0	0
Adjustments		0	0
Total		12855	100.0



Latent Cooling Load = 2401 Btuh
 Overall U-value = 0.126 Btuh/ft²-°F, Window / Floor Area = 27.5 %

WARNING: window to floor area ratio = 27.5% - more than 25%.

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Component Constructions

Entire House

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Project Information

For: 669 SW Pleasant Terr, Ft. White, FL 32038

Design Conditions

Location: Gainesville, FL, US Elevation: 123 ft Latitude: 30°N			Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 37 30 10.6	Cooling 75 18 50 42.5
Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating 33 - - 15.0	Cooling 93 18 (M) 76 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 0	

Construction descriptions

	Or	Area ft ²	U-value Btuh/ft ² -°F	Insul R ft ² -°F/Btuh	Htg HTM Btuh/ft ²	Loss Btuh	Clg HTM Btuh/ft ²	Gain Btuh
Walls								
12C-0sm: Frm wall, vnl ext, 1/2" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" metal frm, 16" o.c. stud	ne	145	0.115	13.0	4.26	618	2.94	427
	se	216	0.115	13.0	4.26	919	2.94	635
	sw	94	0.115	13.0	4.26	398	2.94	275
	nw	216	0.115	13.0	4.26	919	2.94	635
	all	671	0.115	13.0	4.26	2854	2.94	1971
12C-0sw: Frm wall, vnl ext, 1/2" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	114	0.091	13.0	3.37	385	2.33	266
	se	180	0.091	13.0	3.37	606	2.33	419
	sw	146	0.091	13.0	3.37	492	2.33	340
	nw	180	0.091	13.0	3.37	606	2.33	419
	all	621	0.091	13.0	3.37	2090	2.33	1443
Partitions (none)								
Windows								
10D-v: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr, 1/4" gap, 1/4" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	ne	15	0.400	0	14.8	222	16.8	252
	ne	56	0.400	0	14.8	826	24.0	1341
	ne	32	0.400	0	14.8	471	24.0	764
	sw	48	0.400	0	14.8	710	17.4	836
	sw	75	0.400	0	14.8	1103	24.9	1853
	all	225	0.400	0	14.8	3331	22.4	5046
Doors (none)								
Ceilings								
17A-31ad: Rf/clg ceiling, asphalt shingles roof mat, mtl cons, 1/2" gypsum board int fnsh, r-30 cell ins		576	0.029	31.0	1.07	618	0.76	435
Floors								
22A-tp1: Bg floor, light dry soil, on grade depth, tile flr fnsh		96	0.989	0	36.6	3513	0	0

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Right-J8® Form J1

Entire House

Heat Load USA

Job: 669 SW Pleasant Terr - Ft W...
 Date: Feb 05, 2025
 By: www.heatloadusa.com

4 Marshall Drive, Egg Harbor, NJ 08234 Phone: 973-544-6800 Email: info@heatloadusa.com Web: www.heatloadusa.com

1 Name of Room			Entire House							1-Main Floor			
2 Running Feet of Exposed Wall			140.5 ft							96.0 ft			
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			10.6 ft		1636.3 ft ²					11.9 ft		1144.3 ft ²	
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					819.8 ft ²					24.0 x 24.0 ft		576.0 ft ²	
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		1044.0 ft ²					0 °		800.3 ft ²	
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6	Wall	12C-0sm	ne	4.26	2.94	216	618	427		216	618	427	
	Glaz	10D-v	ne	14.80	16.82	15	222	252		15	222	252	
	Glaz	4A5-2ov	ne	14.80	24.04	56	826	1341		56	826	1341	
	Wall	12C-0sw	ne	3.37	2.33	146	385	266		0	0	0	
11	Glaz	4A5-2ov	ne	14.80	24.04	32	471	764		0	0	0	
	Wall	12C-0sm	se	4.26	2.94	216	919	635		216	919	635	
	Wall	12C-0sw	se	3.37	2.33	180	606	419		86	290	201	
	Wall	12C-0sm	sw	4.26	2.94	216	398	275		216	398	275	
	Glaz	10D-v	sw	14.80	17.41	48	710	836		48	710	836	
	Glaz	4A5-2ov	sw	14.80	24.87	75	1103	1853		75	1103	1853	
	Wall	12C-0sw	sw	3.37	2.33	146	492	340		146	492	340	
	Wall	12C-0sm	nw	4.26	2.94	216	919	635		216	919	635	
	Wall	12C-0sw	nw	3.37	2.33	180	606	419		86	290	201	
	Ceiling	17A-31ad	-	1.07	0.76	576	618	435		332	357	251	
	Floor	22A-tpl	-	36.59	0.00	576	3513	0		576	3513	0	
12	Infiltration	Heating Load (Btuh)		Effect ACH		0.61	WAR	3581		WAR	2793		
		Sensible Load (Btuh)				0.32				0.78	713		
		Latent Load (Btuh)											
13	Internal	a Occupants at 230 and 200 Btuh				2		460	400	2		460	400
		b Scenario number						2000				2000	
		c Default Adjustments											
		d Custom Appliances						0	0			0	0
		e Plants							0				0
14	Subtotals	Sum lines 6 through 12						15988	12397	1734		13451	10581
15	Duct Loads	EHLF & ESGF		0	0			0	0		0	0	
		ELG							0			0	
16	Ventilation Loads	Vent Cfm	23	E Cfm	23			940	457	667			
17	Winter Humidification Load	Gal/Day		0				0					
18	Piping Load							0					
19	Blower Heat							0					
20	AED Excursion & Latent Moisture Migration Load							128			164		
21	Total Load	Sum lines 13 through 19						16928	12855	2401		13451	10581

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Right-J8® Form J1 Entire House Heat Load USA

Job: 669 SW Pleasant Terr - Ft W...
Date: Feb 05, 2025
By: www.heatloadusa.com

4 Marshall Drive, Egg Harbor, NJ 08234 Phone: 973-544-6800 Email: info@heatloadusa.com Web: www.heatloadusa.com

1 Name of Room			2-Loft									
2 Running Feet of Exposed Wall			44.5 ft									
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			7.5 ft		480.0 ft²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			19.5 x 12.5 ft		243.8 ft²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		243.8 ft²							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6	Wall	12C-0sm	ne	4.26	2.94	0	0	0				
	Glaz	10D-v	ne	14.80	16.82	0	0	0				
	Glaz	4A5-2ov	ne	14.80	24.04	0	0	0				
11	Wall	12C-0sw	ne	3.37	2.33	146	385	266				
	Glaz	4A5-2ov	ne	14.80	24.04	32	471	764				
	Wall	12C-0sm	se	4.26	2.94	0	0	0				
	Wall	12C-0sw	se	3.37	2.33	94	316	218				
	Wall	12C-0sm	sw	4.26	2.94	0	0	0				
	Glaz	10D-v	sw	14.80	17.41	0	0	0				
	Glaz	4A5-2ov	sw	14.80	24.87	0	0	0				
	Wall	12C-0sw	sw	3.37	2.33	0	0	0				
	Wall	12C-0sm	nw	4.26	2.94	0	0	0				
	Wall	12C-0sw	nw	3.37	2.33	94	316	218				
	Ceil	17A-31ad	-	1.07	0.76	244	262	184				
	Flor	22A-tp1	-	36.59	0.00	0	0	0				
12	Infiltration	Heating Load (Btuh)		Effect ACH	0.61	WAR 0.22	788					
		Sensible Load (Btuh)			0.32			201				
		Latent Load (Btuh)										
13	Internal	a Occupants at 230 and 200 Btuh				0		0	0			
		b Scenario number						0				
		c Default Adjustments								0		
		d Custom Appliances								0		
		e Plants								0		
14	Subtotals	Sum lines 6 through 12					2537	1816				
15	Duct Loads	EHLF & ESGF		0	0		0	0				
		ELG						0				
16	Ventilation Loads	Vent Cfm	23	E Cfm	23							
17	Winter Humidification Load	Gal/Day		0								
18	Piping Load											
19	Blower Heat											
20	AED Excursion & Latent Moisture Migration Load											
21	Total Load	Sum lines 13 through 19					2537	1816				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





J1 Form - Worksheet A

Entire House

Heat Load USA

Job: 669 SW Pleasant Terr - F...
 Date: Feb 05, 2025
 By: www.heatloadusa.com

4 Marshall Drive, Egg Harbor, NJ 08234 Phone: 973-544-6800 Email: info@heatloadusa.com Web: www.heatloadusa.com

Supporting Detail	
Project Name: 669 SW Pleasant Terr - Ft White FL	Date: Feb 05, 2025
Address: 669 SW Pleasant Terr, Ft. White, FL 32038	
Phone:	Job ID: 669 SW Pleasant Terr - Ft White FL

Worksheet A			
Location and Design Conditions			
Weather Location: Gainesville, FL, US	Elevation = 123	Latitude = 30	
Indoor Conditions, Heating: DB = 70 °F RH = 30 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %		
Table 1 Conditions 99% DB = 33 °F 1% DB = 93 °F	Grains Difference = 42 gr/lb	Daily Range = M	
Design Temperature Differences	HTD = 37 °F	CTD = 18 °F	

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...pMan Js\669 SW Pleasant Terr - Ft White FL.rup Calc = MJ8 Front Door faces: SW