



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	Infiltration	
Outside db (°F)	33	93	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
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	569 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	16502	12460	0	569
Entire House	576	16502	12460	0	569
Other equip loads		841	409		
Equip. @ 0.98 RSM			12612		
Latent cooling			2411		
TOTALS	576	17343	15023	0	569

Bold/italic values have been manually overridden

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



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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	16502 Btuh
Ducts	0 Btuh
Central vent (21 cfm)	841 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	17343 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	576	576
Volume (ft ³)	9216	9216
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	94	49

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	12460 Btuh
Ducts	0 Btuh
Central vent (21 cfm)	409 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.98
Equipment sensible load	12612 Btuh

Latent Cooling Equipment Load Sizing

Structure	1814 Btuh
Ducts	0 Btuh
Central vent (21 cfm)	597 Btuh
Outside air	
Equipment latent load	2411 Btuh

Equipment Total Load (Sen+Lat)	15023 Btuh
Req. total capacity at 0.84 SHR	1.3 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	569 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

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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

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33
-
-
15.0

Cooling

93
18 (M)
76
7.5

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

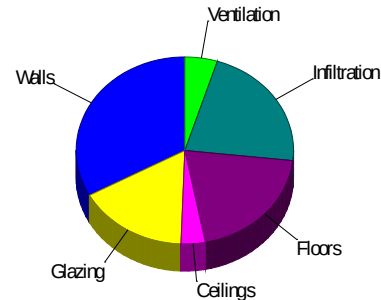
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

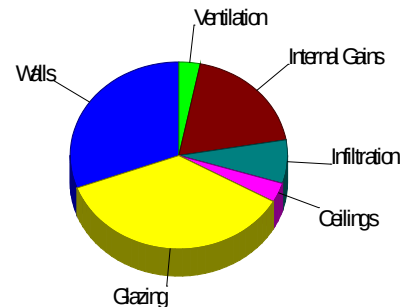
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.3	5713	32.9
Glazing	14.8	2861	16.5
Doors	0	0	0
Ceilings	1.1	618	3.6
Floors	6.1	3513	20.3
Infiltration	2.5	3797	21.9
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		841	4.9
Adjustments		0	0
Total		17343	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.9	3945	30.7
Glazing	24.1	4651	36.1
Doors	0	0	0
Ceilings	0.8	435	3.4
Floors	0	0	0
Infiltration	0.6	969	7.5
Ducts		0	0
Ventilation		409	3.2
Internal gains		2460	19.1
Blower		0	0
Adjustments		0	0
Total		12870	100.0

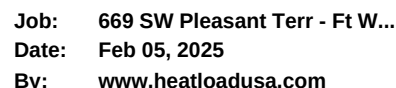


Latent Cooling Load = 2411 Btuh

Overall U-value = 0.128 Btuh/ft²-°F, Window / Floor Area = 33.6 %

WARNING: window to floor area ratio = 33.6% - more than 25%.

Bold/italic values have been manually overridden

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J1 Form - Worksheet A

Entire House

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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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