



Manual S Compliance Report

Entire House

E-Calcs Plus, Inc

Job: Letner - 1274 SE County...
Date: 2025
By: E-Calcs Plus, Inc

Serving all of Florida Phone: 833.322.5271 Email: eric@ecalcsplus.com Web: www.ecalcsplus.com License: HERS Rater ID# 0757810

Project Information

For: Letner - 1274 SE County Road 349, High Springs Electric & Air
1274 SE County Road 349, Lake City, FL 32025

Cooling Equipment

Design Conditions

Outdoor design DB:	91.9°F	Sensible gain:	42049 Btuh	Entering coil DB:	77.5°F
Outdoor design WB:	76.2°F	Latent gain:	6267 Btuh	Entering coil WB:	63.8°F
Indoor design DB:	75.0°F	Total gain:	48315 Btuh		
Indoor RH:	50%	Estimated airflow:	1833 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZB406010A+AMST60DU1400B
Actual airflow:	1833 cfm		
Sensible capacity:	46340 Btuh	110% of load	
Latent capacity:	7969 Btuh	127% of load	
Total capacity:	54309 Btuh	112% of load	SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.0°F	Heat loss:	49547 Btuh	Entering coil DB:	68.4°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZB406010A+AMST60DU1400B
Actual airflow:	1833 cfm		
Output capacity:	44101 Btuh	89% of load	Capacity balance: 30 °F
Supplemental heat required:	5446 Btuh		Economic balance: -65 °F

Backup equipment type:	Elec strip		
Manufacturer:	Goodman Mfg.	Model:	AFUE 100
Actual airflow:	1833 cfm		
Output capacity:	15.0 kW	103% of load	Temp. rise: 48 °F

Meets all requirements of ACCA Manual S.



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Notes:

Design Information

Weather: Gainesville Rgnl, 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	36548 Btuh
Ducts (R-6.0)	12999 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	49547 Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2842	2842
Volume (ft ³)	28420	28420
Air changes/hour	0.22	0.11
Equiv. AVF (cfm)	104	52

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Model	GSZB406010A
AHRI ref	213368396

Efficiency	7.5 HSPF2
Heating input	
Heating output	57000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1833 cfm
Air flow factor	0.037 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 30 °F	

Backup: Goodman Mfg. AFUE 100
Input = 15 kW, Output = 51182 Btuh, 100 AFUE

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	27638 Btuh
Ducts (R-6.0)	14410 Btuh
Central vent (0 cfm)	0 Btuh

Blower	0 Btuh
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Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	42049 Btuh

Latent Cooling Equipment Load Sizing

Structure	2652 Btuh
Ducts	3614 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load	6267 Btuh
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Equipment Total Load (Sen+Lat)	48315 Btuh
Req. total capacity at 0.75 SHR	4.7 ton

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Cond	GSZB406010A
Coil	AMST60DU1400B
AHRI ref	213368396

Efficiency	11.5 EER2,14.3 SEER2
Sensible cooling	41250 Btuh
Latent cooling	13750 Btuh
Total cooling	55000 Btuh
Actual air flow	1833 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.87

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



Load Short Form

Entire House

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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	47		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GSZB406010A
AHRI ref 213368396

Efficiency 7.5 HSPF2
Heating input
Heating output 57000 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 1833 cfm
Air flow factor 0.037 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 30 °F

Backup: Goodman Mfg. AFUE 100
Input = 15 kW, Output = 51182 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GSZB406010A
Coil AMST60DU1400B
AHRI ref 213368396

Efficiency 11.5 EER2, 14.3 SEER2
Sensible cooling 41250 Btuh
Latent cooling 13750 Btuh
Total cooling 55000 Btuh
Actual air flow 1833 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Office	108	3563	3000	132	131
MBR	251	5444	6097	201	266
Pantry	48	77	121	3	5
MWIC	126	202	318	7	14
Pwdr1	32	51	81	2	4
MT	24	1268	437	47	19
Laundry	107	2411	1108	89	48
Arrival	172	4267	2417	158	105
WIC4	30	1400	490	52	21
BA4	48	1060	423	39	18
WIC3	36	549	242	20	11
BR3	182	4419	3159	163	138
WIC2	25	655	252	24	11
Sink3	28	45	71	2	3

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BA2		47	75	119	3	5
Sink2		24	39	61	1	3
BR2		162	2697	2250	100	98
BR4		169	3692	2608	137	114
Hall		98	1980	1033	73	45
Kit Liv Din		914	13008	15681	481	684
MBA		196	2619	2044	97	89
AHU		15	24	38	1	2
Entire House	p	2842	49547	42049	1833	1833
Other equip loads			0	0		
Equip. @ 1.00 RSM				42049		
Latent cooling				6267		
TOTALS		2842	49547	48315	1833	1833

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Building Analysis

Entire House

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Design Conditions

Location:

Gainesville Rgnl, FL, US
Elevation: 164 ft
Latitude: 30°N

Outdoor:

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

Heating

33
-
-
15.0

Cooling

92
18 (M)
76
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
50
32.8

Cooling

75
17
50
46.9

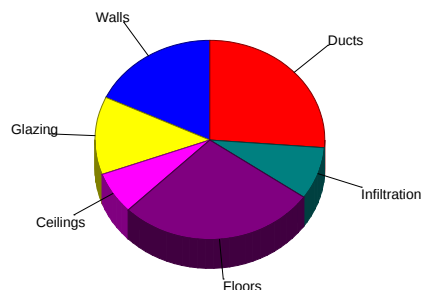
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-tight
0

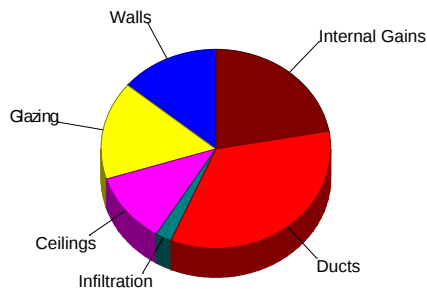
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	8907	18.0
Glazing	12.2	6263	12.6
Doors	0	0	0
Ceilings	1.2	3365	6.8
Floors	4.9	13797	27.8
Infiltration	1.3	4216	8.5
Ducts		12999	26.2
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		49547	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.2	5862	13.9
Glazing	13.0	6707	16.0
Doors	0	0	0
Ceilings	1.7	4806	11.4
Floors	0	0	0
Infiltration	0.3	963	2.3
Ducts		14410	34.3
Ventilation		0	0
Internal gains		9300	22.1
Blower		0	0
Adjustments		0	0
Total		42049	100.0



Latent Cooling Load = 6267 Btuh

Overall U-value = 0.099 Btuh/ft²-°F, Window / Floor Area = 18.1 %

Data entries checked.



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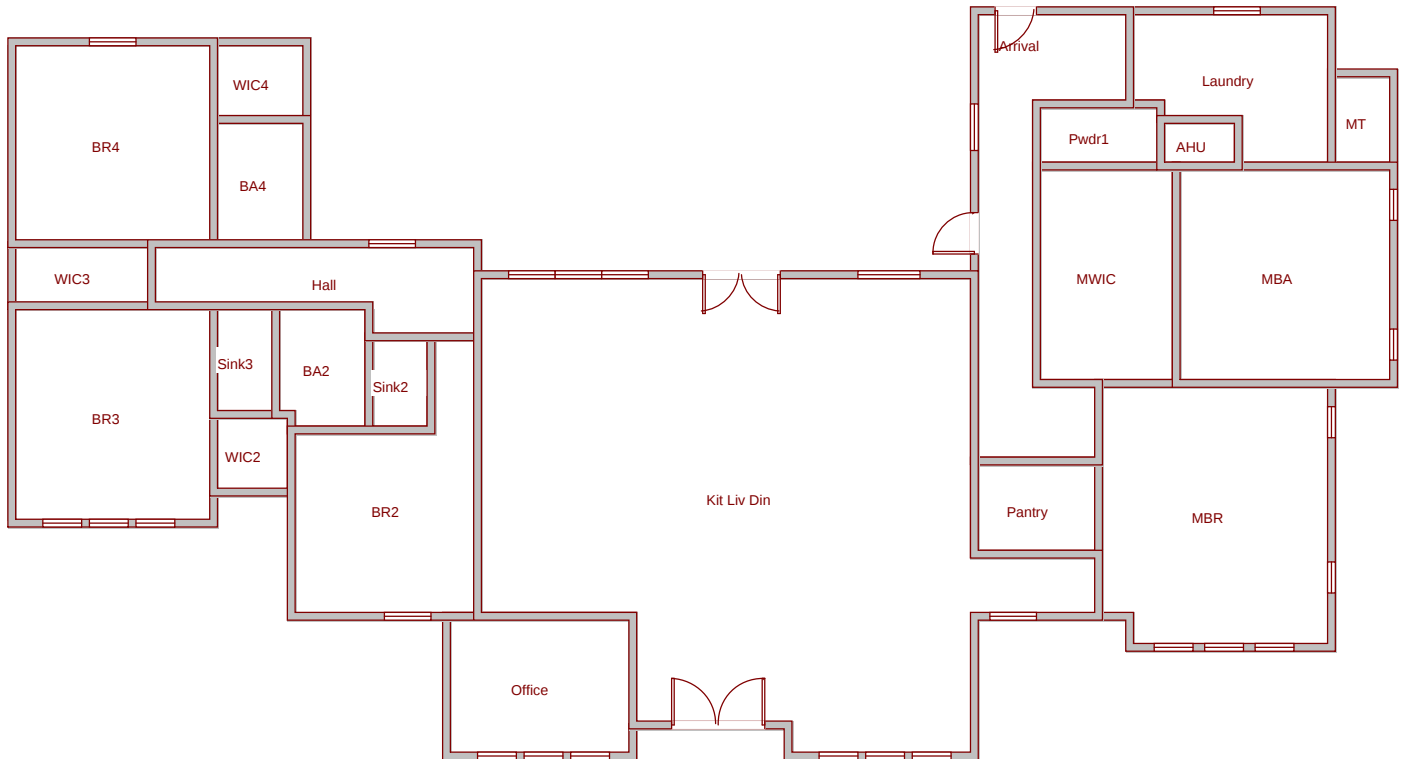
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First Floor



Job #: Letner - 1274 SE County Road 349
Performed by E-Calcs Plus, Inc for:

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Lake City, FL 32025

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Phone: 833.322.5271 License: HERS Rater ID# 0757810
www.ecalcsplus.com eric@ecalcsplus.com

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