



Manual S Compliance Report

Entire House

E-Calcs Plus, Inc

Job: Dubose - XXX S US Hwy ...
Date: Jul 01, 2026
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: Dubose - XXX S US Hwy 441
XXX S US Hwy 441, High Springs, FL 32643

Cooling Equipment

Design Conditions

Outdoor design DB:	91.9°F	Sensible gain:	16840	Btuh	Entering coil DB:	77.1°F
Outdoor design WB:	76.2°F	Latent gain:	2673	Btuh	Entering coil WB:	63.6°F
Indoor design DB:	75.0°F	Total gain:	19513	Btuh		
Indoor RH:	50%	Estimated airflow:	733	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GLZS4MA2410A+AWST24SU1310A
Actual airflow:	733	cfm	
Sensible capacity:	17614	Btuh	105% of load
Latent capacity:	3849	Btuh	144% of load
Total capacity:	21463	Btuh	110% of load SHR: 82%

Heating Equipment

Design Conditions

Outdoor design DB:	33.0°F	Heat loss:	17513	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GLZS4MA2410A+AWST24SU1310A
Actual airflow:	0	cfm	
Output capacity:	22000	Btuh	126% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	29	°F	
Economic balance:	-31	°F	

Backup equipment type:	Elec strip		
Manufacturer:	Goodman Mfg.	Model:	AFUE 100
Actual airflow:	0	cfm	
Output capacity:	7.5	kW	146% of load Temp. rise: 30 °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	15135 Btuh
Ducts (R-6.0)	2378 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	17513 Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft ²)	1110	1110
Volume (ft ³)	11100	11100
Air changes/hour	0.31	0.16
Equiv. AVF (cfm)	57	30

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Model	GLZS4MA2410A
AHRI ref	215217633

Efficiency	7.5 HSPF2
Heating input	
Heating output	22000 Btuh @ 47°F
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 29 °F	

Backup: Goodman Mfg. AFUE 100
Input = 8 kW, Output = 25591 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	12188 Btuh
Ducts (R-6.0)	4652 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	16840 Btuh

Latent Cooling Equipment Load Sizing

Structure	1539 Btuh
Ducts	1134 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load	2673 Btuh
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Equipment Total Load (Sen+Lat)	19513 Btuh
Req. total capacity at 0.75 SHR	1.9 ton

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Cond	GLZS4MA2410A
Coil	AWST24SU1310A
AHRI ref	215217633

Efficiency	12.0 EER2, 14.3 SEER2
Sensible cooling	16500 Btuh
Latent cooling	5500 Btuh
Total cooling	22000 Btuh
Actual air flow	733 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.86

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



Load Short Form Entire House E-Calcs Plus, Inc

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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 GLZS4MA2410A
AHRI ref 215217633
Efficiency 7.5 HSPF2
Heating input
Heating output 22000 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 29 °F

Backup: Goodman Mfg. AFUE 100
Input = 8 kW, Output = 25591 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4MA2410A
Coil AWST24SU1310A
AHRI ref 215217633
Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 16500 Btuh
Latent cooling 5500 Btuh
Total cooling 22000 Btuh
Actual air flow 733 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MWIC	35	855	346	0	15
MBA	45	1676	634	0	28
MBR	192	1966	2679	0	117
Pantry	25	611	247	0	11
BR	168	3388	2802	0	122
Kit Liv Din	620	8983	9730	0	423
Pwdr	25	34	403	0	18

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

Entire House	p	1110	17513	16840	0	733
Other equip loads			0	0		
Equip. @ 1.00 RSM				16840		
Latent cooling				2673		
TOTALS		1110	17513	19513	0	733

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Building Analysis Entire House E-Calcs Plus, Inc

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Design Conditions

Location:

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

Outdoor:

Drybulb (°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

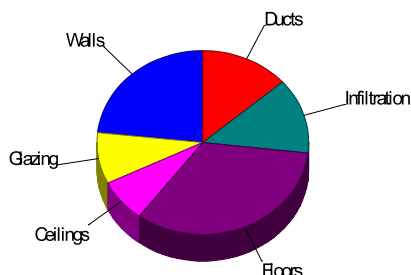
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-tight
0

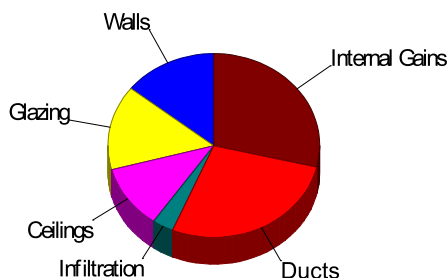
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	4074	23.3
Glazing	12.1	1576	9.0
Doors	0	0	0
Ceilings	1.2	1314	7.5
Floors	5.3	5850	33.4
Infiltration	2.2	2320	13.2
Ducts		2378	13.6
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		17513	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	2411	14.3
Glazing	19.3	2513	14.9
Doors	0	0	0
Ceilings	1.7	1877	11.1
Floors	0	0	0
Infiltration	0.5	547	3.2
Ducts		4652	27.6
Ventilation		0	0
Internal gains		4840	28.7
Blower		0	0
Adjustments		0	0
Total		16840	100.0



Latent Cooling Load = 2673 Btuh

Overall U-value = 0.097 Btuh/ft²-°F, Window / Floor Area = 11.7 %

Data entries checked.

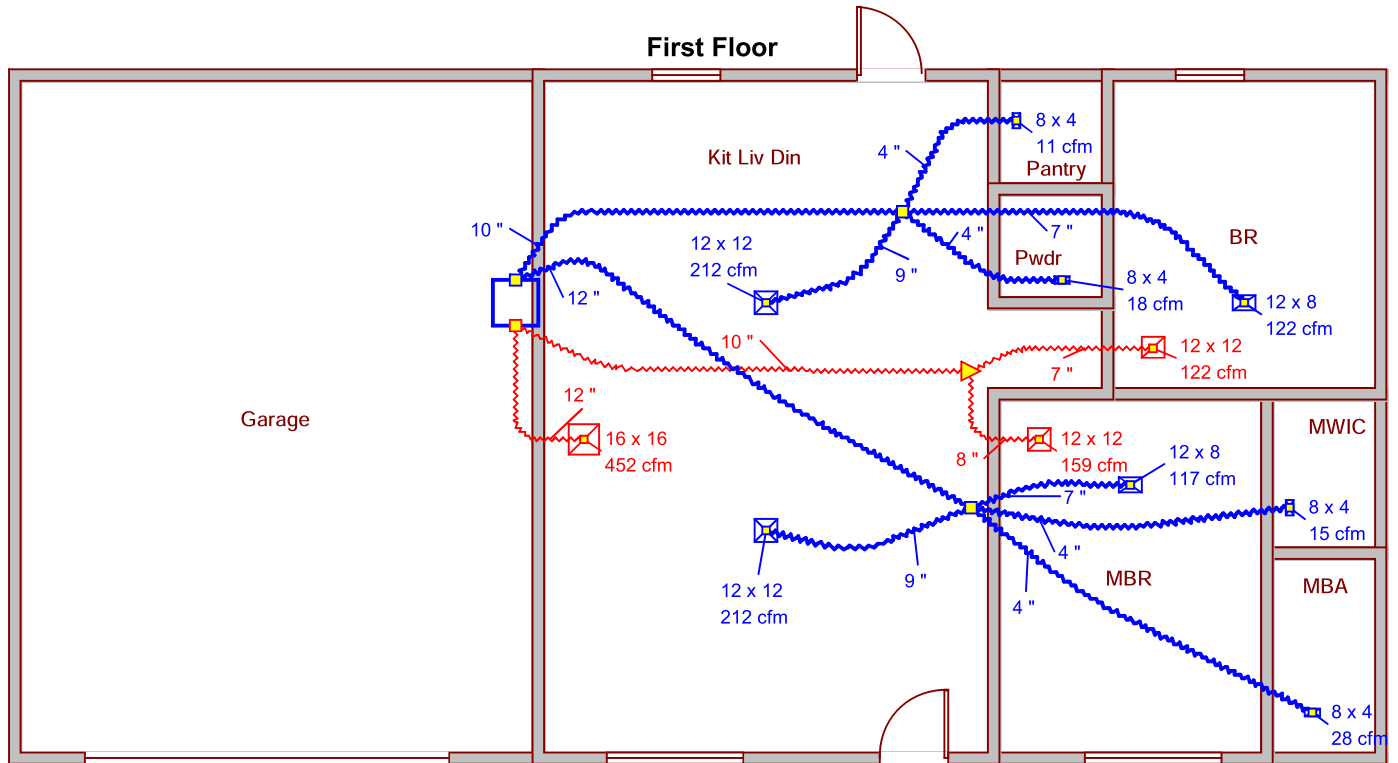


Right-Suite® Universal 2026 26.0.01 RSU28253

...Hwy 441\Dubose - XXX S US Hwy 441 7.10.2026.rup Calc = MJ8 Front Door faces: E

2026-Jul-09 14:50:06

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Job #: Dubose - XXX S US Hwy 441
Performed by E-Calcs Plus, Inc for:

Dubose - XXX S US Hwy 441
XXX S US Hwy 441
High Springs, FL 32643

E-Calcs Plus, Inc

Serving all of Florida

Phone: 833.322.5271 License: HERS Rater ID# 0757810
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