



Manual S Compliance Report

Entire House

DJ Cooling LLC

Job:
Date:
By: Danny James III

po Box 401, Ocala, FL 34478 Phone: 3528434118 Email: djcoolingllc@gmail.com License: CAC1817619

Project Information

For: Shockley
631 sw unity CT, Fort White, FL 32038

Cooling Equipment

Design Conditions

Outdoor design DB:	91.5°F	Sensible gain:	29865	Btuh	Entering coil DB:	79.6°F
Outdoor design WB:	75.2°F	Latent gain:	2333	Btuh	Entering coil WB:	64.2°F
Indoor design DB:	75.0°F	Total gain:	32198	Btuh		
Indoor RH:	50%	Estimated airflow:	1190	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA3610A+AMST36BU1300A
Actual airflow:	1190	cfm	
Sensible capacity:	31305	Btuh	105% of load
Latent capacity:	3605	Btuh	155% of load
Total capacity:	34910	Btuh	108% of load SHR: 90%

Heating Equipment

Design Conditions

Outdoor design DB:	34.0°F	Heat loss:	16788	Btuh	Entering coil DB:	67.5°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA3610A+AMST36BU1300A
Actual airflow:	1190	cfm	
Output capacity:	26460	Btuh	158% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	15	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	1190	cfm	
Output capacity:	5.0	kW	102% of load Temp. rise: 13 °F

Meets all requirements of ACCA Manual S.





Load Short Form

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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	34	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Semi-tight
Design TD (°F)	34	16	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	28	41		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA3610A
AHRI ref 216772063

Efficiency 7.5 HSPF2
Heating input
Heating output 34000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 1190 cfm
Air flow factor 0.071 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 15 °F

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA3610A
Coil AMST36BU1300A
AHRI ref 216772063
Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 24500 Btuh
Latent cooling 10500 Btuh
Total cooling 35000 Btuh
Actual air flow 1190 cfm
Air flow factor 0.045 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.93

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bed7	144	2079	2858	147	129
Bed4	138	1238	1936	88	87
Dining	190	2554	3609	181	162
Living	374	3151	4702	223	212
Bed6	144	2079	2858	147	129
Lndy	49	871	1220	62	55
Kitchen	206	1729	3356	123	151
Half Bath	30	90	772	6	35
Closet	18	402	886	28	40
Bed5	144	1284	1972	91	89
Bath3	75	601	1119	43	50
Bath2	72	710	1163	50	52

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



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Entire House	1584	16788	26452	1190	1190
Other equip loads		0	3413		
Equip. @ 0.96 RSM			28820		
Latent cooling			2333		
TOTALS	1584	16788	31153	1190	1190



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Notes:



Design Information

Weather: Ocala Muni (AWOS), FL, US

Winter Design Conditions

Outside db 34 °F
Inside db 68 °F
Design TD 34 °F

Ventilation Method MJ8

Heating Summary

Structure 13372 Btuh
Ducts (R-6.0) 3417 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 16788 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

	Heating	Cooling
Area (ft²)	1584	1584
Volume (ft³)	15840	15840
Air changes/hour	0.26	0.14
Equiv. AVF (cfm)	69	37

Heating Equipment Summary

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA3610A
AHRI ref 216772063

Efficiency 7.5 HSPF2
Heating input 34000 Btuh @ 47°F
Heating output 26 °F
Temperature rise 1190 cfm
Actual air flow 0.071 cfm/Btuh
Air flow factor 0.51 in H2O
Static pressure
Space thermostat
Capacity balance point = 15 °F

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 16 °F
Daily range M
Relative humidity 50 %
Moisture difference 41 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 19806 Btuh
Ducts (R-6.0) 6646 Btuh
Central vent (0 cfm) 0 Btuh

Blower 3413 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.96
Equipment sensible load 28820 Btuh

Latent Cooling Equipment Load Sizing

Structure 1833 Btuh
Ducts 500 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 2333 Btuh

Equipment Total Load (Sen+Lat) 31153 Btuh
Req. total capacity at 0.70 SHR 3.4 ton

Cooling Equipment Summary

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA3610A
Coil AMST36BU1300A
AHRI ref 216772063
Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 24500 Btuh
Latent cooling 10500 Btuh
Total cooling 35000 Btuh
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Static pressure 0.51 in H2O
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Project Information

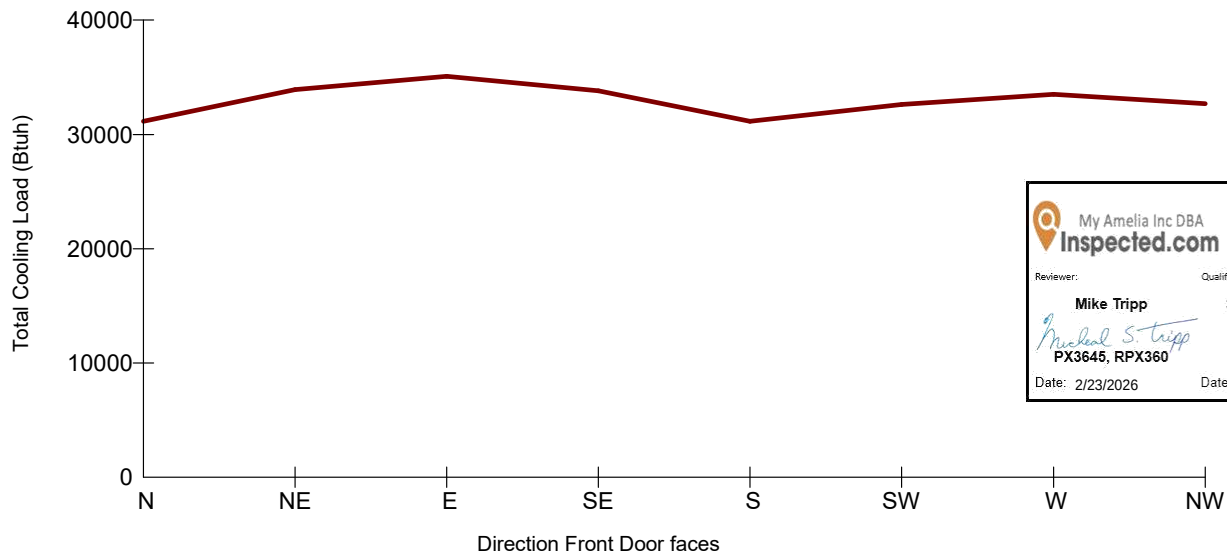
For: Shockley
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Design Conditions

Location:		Indoor:		Heating	Cooling
Ocala Muni (AWOS), FL, US		Indoor temperature (°F)		68	75
Elevation: 89 ft		Design TD (°F)		34	16
Latitude: 29°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		28.1	41.2
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)		34	92		
Daily range (°F)		-	18 (M)		
Wet bulb (°F)		-	75		
Wind speed (mph)		15.0	7.5		

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	28820	31584	32756	31495	28820	30276	31191	30362
Latent Load (Btuh)	2333	2333	2333	2333	2333	2333	2333	2333
Total Load (Btuh)	31153	33917	35089	33829	31153	32609	33524	32695
Heating AVF (cfm)	1190	1190	1190	1190	1190	1190	1190	1190
Cooling AVF (cfm)	1190	1190	1190	1190	1190	1190	1190	1190

Building Orientation Cooling Load



Current Orientation: Front Door faces North
Highest Cooling Load: Front Door faces East

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Duct System Summary

Entire House

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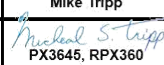
	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.51 in H2O	0.51 in H2O
Supply / return available pressure	0.417 / 0.093 in H2O	0.417 / 0.093 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1190 cfm	1190 cfm
Total effective length (TEL)	382 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath2	c 1163	50	52	0.880	4.0	0x0	VIFx	24.4	165.0	st1
Bath3	c 560	21	25	0.880	4.0	0x0	VIFx	24.1	170.0	st2
Bath3-A	c 560	21	25	0.880	4.0	0x0	VIFx	26.2	170.0	st2
Bed4	h 1238	88	87	0.880	6.0	0x0	VIFx	31.5	170.0	st2
Bed5	h 1284	91	89	0.880	6.0	0x0	VIFx	26.5	170.0	st2
Bed6-A	h 2079	147	129	0.880	6.0	0x0	VIFx	15.3	165.0	st1
Bed7	h 2079	147	129	0.880	6.0	0x0	VIFx	23.2	165.0	st1
Closet	c 886	28	40	0.880	4.0	0x0	VIFx	47.6	265.0	st3
Dining-B	h 2554	181	162	0.880	7.0	0x0	VIFx	42.7	265.0	st3
Half Bath	c 772	6	35	0.880	4.0	0x0	VIFx	43.6	265.0	st3
Kitchen-A	c 3356	123	151	0.880	7.0	0x0	VIFx	43.9	265.0	st3
Living-A	h 1576	112	106	0.880	6.0	0x0	VIFx	25.8	170.0	st2
Living-B	h 1576	112	106	0.880	6.0	0x0	VIFx	22.1	170.0	st2
Lndy-A	h 871	62	55	0.880	5.0	0x0	VIFx	17.8	165.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	407	364	0.880	518	12.0	0 x 0	VinIFlx	st2
st3	Peak AVF	338	388	0.880	494	12.0	0 x 0	VinIFlx	
st2	Peak AVF	783	826	0.880	591	16.0	0 x 0	VinIFlx	

 My Amelia Inc DBA Inspected.com		REVIEWED For Code Compliance in accordance with Section 553.791, F.S.
Reviewer:	Qualifier:	
Mike Tripp	Spencer Moore	
		
PX3645, RPX360	PE 99007	
Date: 2/23/2026	Date: 2/23/2026	



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Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rsb3	0x 0	88	87	55.0	0.880	328	7.0	0x 0		VIFx	rt1
rsb5	0x 0	147	129	37.1	0.880	551	7.0	0x 0		VIFx	
rsb6	0x 0	147	129	37.8	0.880	551	7.0	0x 0		VIFx	
rb1	0x 0	717	757	34.6	0.880	542	16.0	0x 0		VIFx	
rsb4	0x 0	91	89	69.5	0.880	667	5.0	0x 0		VIFx	rt1

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	179	176	0.880	405	9.0	0 x 0	VinIFlx	

