



Load Short Form
Erwin residence
MonCalculdecharge.com

Handwritten signature

Job: 2899
Date: January 18th, 2023
By: Antoine Assaf

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Project Information

For: Erwin residence
151 Nasdaq Glen, Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	35	92	Method	Average
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	9	45		

HEATING EQUIPMENT

Make	Generic
Trade	
Model	
AHRI ref	
Efficiency	96 AFUE
Heating input	7.9 kW
Heating output	26000 Btuh
Temperature rise	30 °F
Actual air flow	800 cfm
Air flow factor	0.080 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Generic
Trade	
Cond	SEER 15.0
Coil	
AHRI ref	
Efficiency	12.8 EER, 15 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.85

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Laundry	60	1061	1277	85	70
Office	107	837	1853	67	102
Family bath	41	328	337	26	19
Bedroom Family	120	1355	1604	108	88
Master Bath	105	679	499	54	28
Master bedroom	195	2002	2832	160	156
Kitchen/Living	427	3750	6111	300	337

Bold/italic values have been manually overridden

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

Erwin residence	1054	10012	14513	800	800
Other equip loads		488	237		
Equip. @ 1.00 RSM			14750		
Latent cooling			2702		
TOTALS	1054	10500	17451	800	800

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Project Summary

Pruitt residence

MonCalculdecharge.com

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For: Pruitt residence
151 Nasdaq Glen, Lake City, FL

Notes: Based on floor R13 above vented Crawlspace / Above grade walls R19/ Roof R25/ Windows U:0.3 & SHGC de 0.35 / Infiltration average/ No ducts passing in attic /No skylights

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db	35 °F
Inside db	70 °F
Design TD	35 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	45 gr/lb

Heating Summary

Structure	10012 Btuh
Ducts	0 Btuh
Central vent (SER=80% 64 cfm)	488 Btuh
Energy recovery	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	10500 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14513 Btuh
Ducts	0 Btuh
Central vent (SER=80% 64 cfm)	237 Btuh
Energy recovery	
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	14750 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2116 Btuh
Ducts	0 Btuh
Central vent (LER=70% 64 cfm)	586 Btuh
Energy recovery	
Equipment latent load	2702 Btuh

	Heating	Cooling
Area (ft²)	1054	1054
Volume (ft³)	9486	9486
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	71	36

Equipment Total Load (Sen+Lat)	17451 Btuh
Req. total capacity at 0.70 SHR	1.8 ton

Heating Equipment Summary

Make	Generic
Trade	
Model	
AHRI ref	
Efficiency	96 AFUE
Heating input	7.9 kW
Heating output	26000 Btuh
Temperature rise	30 °F
Actual air flow	800 cfm
Air flow factor	0.080 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER 15.0
Coil	
AHRI ref	
Efficiency	12.8 EER, 15 SEER
Sensible cooling	16800 Btuh
Latent cooling	7200 Btuh
Total cooling	24000 Btuh
Actual air flow	800 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.85

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