



Project Summary
Entire House
Glenn I. Jones, Inc.

Job:
Date: Aug 14, 2012
By:

552 NW Hilton Ave, Lake City, FL 32055 Phone: 386-752-5389 Fax: 386-755-3401 Email: byron@gijinc.com Web: www.glennijonesinc.com

Project Information

For: Lucy McElroy
247 SE Britt Pl, Lake City, FL 32025
Phone: 754-8473

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	29887 Btuh
Ducts	8114 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	38002 Btuh

Sensible Cooling Equipment Load Sizing

Structure	26844 Btuh
Ducts	10091 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	35827 Btuh

Infiltration

Method	Simplified
Construction quality	Semi-loose
Fireplaces	1 (Semi-loose)

	Heating	Cooling
Area (ft ²)	1700	1700
Volume (ft ³)	13600	13600
Air changes/hour	0.71	0.31
Equiv. AVF (cfm)	161	70

Latent Cooling Equipment Load Sizing

Structure	2470 Btuh
Ducts	2282 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4752 Btuh
Equipment total load	40579 Btuh
Req. total capacity at 0.70 SHR	4.3 ton

Heating Equipment Summary

Make	Carrier
Trade	Carrier 14.5
Model	50VTA48
AHRI ref no	3595783
Efficiency	8 HSPF
Heating input	
Heating output	45500 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1548 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H ₂ O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	Carrier 14.5
Cond	50VTA48
Coil	
AHRI ref no	3595783
Efficiency	14.5 SEER
Sensible cooling	32550 Btuh
Latent cooling	13950 Btuh
Total cooling	46500 Btuh
Actual air flow	1548 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H ₂ O
Load sensible heat ratio	0.89

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



wrightsoft®

Right-Suite® Universal 2012 12.0.04 RSU01086

R:\Wrightsoft HVAC\Project\Mcelroy lucy.rup Calc = MJ8 Front Door faces: N

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Page 1



This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between Feb 17, 2009 and Dec 31, 2011.

Certificate of Product Ratings

AHRI Certified Reference Number: 3595783

Date: 8/27/2012

Product: Single-Package Heat Pump Air-Source

Model Number: 50VT-A48---31

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: CARRIER

Manufacturer responsible for the rating of this system combination is CARRIER AIR CONDITIONING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	46500
EER Rating (Cooling):	12.00
SEER Rating (Cooling):	14.50
Heating Capacity(Btuh) @ 47 F:	45500
Region IV HSPF Rating (Heating):	8.00
Heating Capacity(Btuh) @ 17 F:	26000

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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CERTIFICATE VERIFICATION

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CERTIFICATE NO.: 129905434850990802

GLENN I. JONES INC.**COOLING • HEATING****SPECIALISTS****State Cert. # CAC051486**

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08/14/2012

Reference:HVAC permit:

McElroy Residence

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier 50VTA48A003,CE0801N08, TC-NHP01