



**Project Summary**  
**Entire House**  
**Glenn I. Jones, Inc.**

Job:  
Date: May 29, 2013  
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: Isiah & Sylvia Sheppard  
756 SW County Road 242, Lake City, FL 32024  
Phone: 386-758-6796

Notes:

## Design Information

Weather: Gainesville, FL, US

### Winter Design Conditions

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

### Heating Summary

Structure	38361 Btuh
Ducts	10131 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	48492 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft <sup>2</sup> )	2359	2359
Volume (ft <sup>3</sup> )	19928	19928
Air changes/hour	0.47	0.21
Equiv. AVF (cfm)	156	70

### Heating Equipment Summary

Make	Carrier
Trade	Carrier Performance 15
Model	25HBC548A003
AHRI ref	3646319

Efficiency	8.5 HSPF
Heating input	
Heating output	45500 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1593 cfm
Air flow factor	0.033 cfm/Btuh
Static pressure	0 in H <sub>2</sub> O
Space thermostat	

### 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

### Sensible Cooling Equipment Load Sizing

Structure	26085 Btuh
Ducts	12488 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	37416 Btuh

### Latent Cooling Equipment Load Sizing

Structure	4052 Btuh
Ducts	2895 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	6947 Btuh

Equipment total load	44363 Btuh
Req. total capacity at 0.84 SHR	3.7 ton

### Cooling Equipment Summary

Make	Carrier
Trade	Carrier Performance 15
Cond	25HBC548A003
Coil	FX4DNF049t00
AHRI ref	3646319

Efficiency	15 SEER
Sensible cooling	39900 Btuh
Latent cooling	7600 Btuh
Total cooling	47500 Btuh
Actual air flow	1593 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H <sub>2</sub> O
Load sensible heat ratio	0.85

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



Wrightsoft

Right-Suite® Universal 2012 12.1.06 RSU01086

R:\Wrightsoft HVAC\Project\Isiah Sheppard.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, 2013.

# Certificate of Product Ratings

AHRI Certified Reference Number: 3646319

Date: 5/29/2013

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 25HBC548A\*\*30

Indoor Unit Model Number: FX4DN(B,F)049

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: COMFORT 13 PURON HP

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):	47500
EER Rating (Cooling):	12.50
SEER Rating (Cooling):	15.00
Heating Capacity(Btuh) @ 47 F:	45500*
Region IV HSPF Rating (Heating):	8.50
Heating Capacity(Btuh) @ 17 F:	29000

\* 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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Air-Conditioning, Heating,  
and Refrigeration Institute

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CERTIFICATE NO.: 130143105533936112

**GLENN I. JONES INC.**

**COOLING • HEATING**

**SPECIALISTS**

***State Cert. # CAC051486***

552 N.W. Hilton Ave. Lake City, FL 32055

386-752-5389 fax 386-755-3401

[gij@bellsouth.net](mailto:gij@bellsouth.net)

05/29/2013

Reference:HVAC permit:

Sheppard Home

Material proposal

Mastic

Foil tape

Insulation wrap

PVC drain piping

Equipment:

Carrier 25HCC548A003,FX4DNF049T00, TC-NHP01, CE0801N08