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**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)

10/26/2012

Reference:HVAC permit:

Kishton Home

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier 50AHB042-3, CEC127A00p,TC-NHP01

*Installing the Best • Servicing the Rest*



# Certificate of Product Ratings

AHRI Certified Reference Number: 3722572

Date: 10/26/2012

Product: Single-Package Heat Pump Air-Source

Model Number: 50ZHB042---30

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):	41500
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	13.50
Heating Capacity(Btuh) @ 47 F:	41000
Region IV HSPF Rating (Heating):	7.70
Heating Capacity(Btuh) @ 17 F:	23200

\* 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

The information for the model cited on this certificate can be verified at [www.ahridirectory.org](http://www.ahridirectory.org), click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed below.



Air-Conditioning, Heating,  
and Refrigeration Institute

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CERTIFICATE NO.: 129957342672736113



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

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Job:  
Date: Oct 26, 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: Sandy Kishton  
178 SE Golf Club Ave, Lake City, FL 32025  
Phone: 961-9795

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	27882 Btuh
Ducts	7539 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	35421 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	24586 Btuh
Ducts	9403 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	32969 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft <sup>2</sup> )	1728	1728
Volume (ft <sup>3</sup> )	17280	17280
Air changes/hour	0.57	0.26
Equiv. AVF (cfm)	164	75

### Latent Cooling Equipment Load Sizing

Structure	4233 Btuh
Ducts	2116 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	6349 Btuh
Equipment total load	39318 Btuh
Req. total capacity at 0.84 SHR	3.3 ton

### Heating Equipment Summary

Make	Carrier
Trade	Base13
Model	50ZHB042-3
AHRI ref no	3722572
Efficiency	7.7 HSPF
Heating input	
Heating output	41000 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1422 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	Carrier
Trade	Base13
Cond	50ZHB042-3
Coil	
AHRI ref no	3722572
Efficiency	13.5 SEER
Sensible cooling	34860 Btuh
Latent cooling	6640 Btuh
Total cooling	41500 Btuh
Actual air flow	1422 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.84

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\sandy kishton.rup Calc = MJ8 Front Door faces: N

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