



# Certificate of Product Ratings

AHRI Certified Reference Number: 3699500

Date: 8/24/2012

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

Outdoor Unit Model Number: 25HBC342(A,W)\*\*30

Indoor Unit Model Number: FB4CNF042

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: BASE 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):	41000
EER Rating (Cooling):	11.00
SEER Rating (Cooling):	13.00
Heating Capacity(Btuh) @ 47 F:	40000
Region IV HSPF Rating (Heating):	8.00
Heating Capacity(Btuh) @ 17 F:	23800

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

## DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at [www.ahridirectory.org](http://www.ahridirectory.org).

## TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

## 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

©2012 Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 129902962296867171



# Project Summary

## Entire House

Glenn I. Jones, Inc.

Job:  
Date: Aug 1, 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: Percy Days  
171 NE Rose Ter, Lake City, FL 32055  
Phone: 344-5015

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	32246 Btuh
Ducts	8452 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	40697 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	23706 Btuh
Ducts	10460 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	33141 Btuh

### Infiltration

Method	Simplified	
Construction quality	Semi-loose	
Fireplaces	1 (Average)	
	Heating	Cooling
Area (ft <sup>2</sup> )	2135	2135
Volume (ft <sup>3</sup> )	21350	21350
Air changes/hour	0.69	0.33
Equiv. AVF (cfm)	244	117

### Latent Cooling Equipment Load Sizing

Structure	5728 Btuh
Ducts	2352 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	8080 Btuh
Equipment total load	41221 Btuh
Req. total capacity at 0.84 SHR	3.3 ton

### Heating Equipment Summary

Make	Carrier
Trade	Comfort 13
Model	25HBC342
AHRI ref no	3699500
Efficiency	8 HSPF
Heating input	40000 Btuh @ 47°F
Heating output	26 °F
Temperature rise	1413 cfm
Actual air flow	0.035 cfm/Btuh
Air flow factor	0 in H2O
Static pressure	
Space thermostat	

### Cooling Equipment Summary

Make	Carrier
Trade	Comfort 13
Cond	25HBC342
Coil	FB4CNF042T00
AHRI ref no	3699500
Efficiency	13 SEER
Sensible cooling	34440 Btuh
Latent cooling	6560 Btuh
Total cooling	41000 Btuh
Actual air flow	1413 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.81

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\days percy.rup Calc = MJ8 Front Door faces: N

2012-Aug-24 11:53:29

Page 1

31

**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)

08/1/2012

Reference:HVAC permit:

Days Residence

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier 25HBC342, FX4DNF042T00, CE0801N08, TC-NHP01