



Certificate of Product Ratings

AHRI Certified Reference Number: 3699485

Date: 6/1/2013

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

Outdoor Unit Model Number: 25HBC324(A,W)**30

Indoor Unit Model Number: FB4CNF024

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):	23000
EER Rating (Cooling):	11.00
SEER Rating (Cooling):	13.00
Heating Capacity(Btuh) @ 47 F:	22600
Region IV HSPF Rating (Heating):	8.00
Heating Capacity(Btuh) @ 17 F:	13600

* 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.: 130145666781968300



Project Summary

Entire House

Glenn I. Jones, Inc.

Job:
Date: May 31, 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: Kevin Huesman
173 SW Kyle Way, Lake City, FL 32025
Phone: 386-623-5726

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	25517 Btuh
Ducts	3089 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	28606 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14037 Btuh
Ducts	3799 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	17302 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	856	856
Volume (ft³)	8024	8024
Air changes/hour	0.94	0.41
Equiv. AVF (cfm)	126	55

Latent Cooling Equipment Load Sizing

Structure	3528 Btuh
Ducts	831 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4358 Btuh
Equipment total load	21660 Btuh
Req. total capacity at 0.84 SHR	1.7 ton

Heating Equipment Summary

Make	Carrier
Trade	Carrier Base 13
Model	25HBC324A003
AHRI ref	3699485
Efficiency	8 HSPF
Heating input	
Heating output	23000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	763 cfm
Air flow factor	0.027 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	Carrier Base 13
Cond	25HBC324A003
Coil	FB4CNF024T00
AHRI ref	3699485
Efficiency	13 SEER
Sensible cooling	18984 Btuh
Latent cooling	3616 Btuh
Total cooling	22600 Btuh
Actual air flow	763 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.80

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\Kevin Huesman.rup Calc = MJ8 Front Door faces: N

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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

05/31/2013

Reference:HVAC permit:

Huesman rental Home

Material proposal

Mastic

Foil tape

Insulation wrap

PVC drain piping

Equipment:

Carrier 25HBC324A003,FB4CNF024T00, CE0501N05

Installing the Best • Servicing the Rest