



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: 3645739

Date: 8/24/2012

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

Outdoor Unit Model Number: 25HBC530A**30

Indoor Unit Model Number: FX4DN(B,F)031

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: BASE 15 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):	28800
EER Rating (Cooling):	12.50
SEER Rating (Cooling):	15.25
Heating Capacity(Btuh) @ 47 F:	28600
Region IV HSPF Rating (Heating):	8.70
Heating Capacity(Btuh) @ 17 F:	17000

* 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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Air-Conditioning, Heating,
and Refrigeration Institute

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CERTIFICATE NO.: 129902993991467166



Project Summary

Entire House

Glenn I. Jones, Inc.

Job:
Date: May 16, 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: Kenneth McCall, 224 SW Shannon St
Lake City, FL 32024
Phone: 752-8250

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	21040 Btuh
Ducts	5384 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	26424 Btuh

Sensible Cooling Equipment Load Sizing

Structure	16996 Btuh
Ducts	6568 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1677	1677
Volume (ft³)	13416	13416
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	85	45

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	22856 Btuh

Latent Cooling Equipment Load Sizing

Structure	1572 Btuh
Ducts	1494 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	3067 Btuh

Equipment total load	25923 Btuh
Req. total capacity at 0.70 SHR	2.7 ton

Heating Equipment Summary

Make Carrier
Trade Comfort 15
Model 25HBC530
AHRI ref no3645739

Efficiency	8.7 HSPF
Heating input	
Heating output	28600 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	992 cfm
Air flow factor	0.038 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make Carrier
Trade Comfort 15
Cond 25HBC530
Coil FX4DNF031T00
AHRI ref no3645739

Efficiency	15.3 SEER
Sensible cooling	20160 Btuh
Latent cooling	8640 Btuh
Total cooling	28800 Btuh
Actual air flow	992 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.88

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



Right-Suite® Universal 2012 12.0.04 RSU01086

R:\Wrightsoft HVAC\Project\McCall kenneth.rup Calc = MJ8 Front Door faces: N

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GLENN I. JONES INC.
COOLING • HEATING
SPECIALISTS

State Cert. # CAC051486

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386-752-5389 fax 386-755-3401
gij@bellsouth.net

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08/16/2012

Reference:HVAC permit:

McCall Residence

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier 25HBC530, FX4DNF031T00, CE0801N08, TC-NHP01