

## Project Information

For Annie L. Fabin  
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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 26784 Btuh  
Ducts 5817 Btuh  
Central vent (0 cfm) 0 Btuh  
Humidification 0 Btuh  
Piping 0 Btuh  
Equipment load 32601 Btuh

### Sensible Cooling Equipment Load Sizing

Structure 18633 Btuh  
Ducts 7232 Btuh  
Central vent (0 cfm) 0 Btuh  
Blower 0 Btuh  
Use manufacturer's data n  
Rate/swing multiplier 0.97  
Equipment sensible load 25089 Btuh

### Infiltration

Method Simplified  
Construction quality Average  
Fireplaces 1 (Average)

	Heating	Cooling
Area (ft²)	1596	1596
Volume (ft³)	13248	13248
Air changes/hour	0.59	0.26
Equiv. AVF (cfm)	130	57

### Latent Cooling Equipment Load Sizing

Structure 3618 Btuh  
Ducts 1626 Btuh  
Central vent (0 cfm) 0 Btuh  
Equipment latent load 5244 Btuh  
Equipment total load 30333 Btuh  
Req. total capacity at 0.84 SHR 2.5 ton

### Heating Equipment Summary

Make Carrier  
Trade Base Carrier  
Model 25hbc330  
AHRI ref 3699497  
Efficiency 7.7 HSPF  
Heating input 30000 Btuh @ 47°F  
Heating output 25 °F  
Temperature rise 1082 cfm  
Actual air flow 0.033 cfm/Btuh  
Air flow factor 0 in H2O  
Static pressure  
Space thermostat

### Cooling Equipment Summary

Make Carrier  
Trade Base Carrier  
Cond 25hbc330  
Coil FB4CNF030T  
AHRI ref 3699497  
Efficiency 13 SEER  
Sensible cooling 25200 Btuh  
Latent cooling 4800 Btuh  
Total cooling 30000 Btuh  
Actual air flow 1082 cfm  
Air flow factor 0.042 cfm/Btuh  
Air flow factor 0 in H2O  
Static pressure  
Load sensible heat ratio 0.83

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



# Certificate of Product Ratings

AHRI Certified Reference Number: 3699497

Date: 4/11/2013

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

Outdoor Unit Model Number: 25HBC330(A,W)\*\*30

Indoor Unit Model Number: FB4CNF030

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)	30000
EER Rating (Cooling)	11 00
SEER Rating (Cooling):	13.00
Heating Capacity(Btuh) @ 47 F	30000
Region IV HSPF Rating (Heating)	7 70
Heating Capacity(Btuh) @ 17 F	18300

\* 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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