

Project Information

For Eric Norman
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 Phone 386-867-0918

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	40345 Btuh
Ducts	10974 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	51318 Btuh

Sensible Cooling Equipment Load Sizing

Structure	25478 Btuh
Ducts	13511 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	37819 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	2784	2784
Volume (ft³)	23328	23328
Air changes/hour	0.46	0.21
Equiv. AVF (cfm)	179	82

Latent Cooling Equipment Load Sizing

Structure	4471 Btuh
Ducts	3134 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	7605 Btuh
Equipment total load	45424 Btuh
Req. total capacity at 0.84 SHR	3.8 ton

Heating Equipment Summary

Make	Carrier
Trade	Base Carrier
Model	25hbc548
AHRI ref	3646319
Efficiency	8.5 HSPF
Heating input	45500 Btuh @ 47°F
Heating output	26 °F
Temperature rise	1598 cfm
Actual air flow	0.031 cfm/Btuh
Air flow factor	0 in H2O
Static pressure	
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	Base Carrier
Cond	25hbc548
Coil	FX4DNF048T
AHRI ref	3646319
Efficiency	15 SEER
Sensible cooling	39900 Btuh
Latent cooling	7600 Btuh
Total cooling	47500 Btuh
Actual air flow	1598 cfm
Air flow factor	0.041 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



This combination qualifies for a Federal Energy
Efficiency Tax Credit when placed in service
between Feb 17, 2009 and Dec 31, 2013.

Certificate of Product Ratings

AHRI Certified Reference Number: 3646319

Date: 4/11/2013

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

Outdoor Unit Model Number: 25HBC548A**30

Indoor Unit Model Number: FX4DN(B,F)049

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)	47500
EER Rating (Cooling).	12 50
SEER Rating (Cooling)	15 00
Heating Capacity(Btuh) @ 47 F	45500*
Region IV HSPF Rating (Heating)	8 50
Heating Capacity(Btuh) @ 17 F	29000

* 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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and Refrigeration Institute

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**COOLING • HEATING
SPECIALISTS**

State Cert. # CAC051486

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04/11/2013

Reference:HVAC permit

Eric Norman Home

Material proposal

Mastic

Foil tape

Insulation wrap

PVC drain piping

Equipment:

Carrier a 25HBC548, CE0901N10, TC-PHP01 and FX4DNF048T