

Project Information

For: John Pope
 397 NW Crawford Ct, White Springs, FL 32096
 Phone: 755-4757

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	28060 Btuh
Ducts	8660 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	36720 Btuh

Sensible Cooling Equipment Load Sizing

Structure	23750 Btuh
Ducts	10823 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2275	2275
Volume (ft³)	18200	18200
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	97	49

Latent Cooling Equipment Load Sizing

Structure	1706 Btuh
Ducts	2515 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4221 Btuh

Equipment total load	37757 Btuh
Req. total capacity at 0.70 SHR	4.0 ton

Heating Equipment Summary

Make	Carrier
Trade	Base
Model	50ZHB0483tp
AHRI ref no	3722573
Efficiency	7.7 HSPF
Heating input	46500 Btuh @ 47°F
Temperature rise	30 °F
Actual air flow	1425 cfm
Air flow factor	0.039 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	Base
Cond	50ZHB0483tp
Coil	
AHRI ref no	3722573
Efficiency	13.5 SEER
Sensible cooling	32550 Btuh
Latent cooling	13950 Btuh
Total cooling	46500 Btuh
Actual air flow	1425 cfm
Air flow factor	0.041 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.89

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



Certificate of Product Ratings

AHRI Certified Reference Number: 3722573

Date: 8/6/2012

Product: Single-Package Heat Pump Air-Source

Model Number: 50ZHB048---30

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: CARRIER

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):	46500
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	13.50
Heating Capacity(Btuh) @ 47 F:	46500
Region IV HSPF Rating (Heating):	7.70
Heating Capacity(Btuh) @ 17 F:	27000

* 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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