



Project Summary

Entire House

Glenn I. Jones, Inc.

Job:
Date: Aug 14, 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: Margaret Scharff
2008 SW Birley Ave, Lake City, FL 32024
Phone: 754-6912

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	26414 Btuh
Ducts	6592 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	33006 Btuh

Sensible Cooling Equipment Load Sizing

Structure	24667 Btuh
Ducts	8057 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	31742 Btuh

Infiltration

Method	Simplified
Construction quality	Semi-loose
Fireplaces	1 (Semi-loose)

	Heating	Cooling
Area (ft ²)	1302	1302
Volume (ft ³)	10416	10416
Air changes/hour	0.86	0.36
Equiv. AVF (cfm)	149	62

Latent Cooling Equipment Load Sizing

Structure	2197 Btuh
Ducts	1810 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	4007 Btuh

Equipment total load	35750 Btuh
Req. total capacity at 0.70 SHR	3.8 ton

Heating Equipment Summary

Make Payne
Trade Payne 13
Model PH3ZNB042
AHRI ref no3722704

Efficiency	7.7 HSPF
Heating input	
Heating output	41000 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1394 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make Payne
Trade Payne 13
Cond PH3ZNB042
Coil

AHRI ref no3722704	
Efficiency	13.5 SEER
Sensible cooling	29050 Btuh
Latent cooling	12450 Btuh
Total cooling	41500 Btuh
Actual air flow	1394 cfm
Air flow factor	0.043 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.



Wrightsoft

Right-Suite® Universal 2012 12.0.04 RSU01086

R:\Wrightsoft HVAC\Project\scharff margaret.rup Calc = MJ8 Front Door faces: N

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Certificate of Product Ratings

AHRI Certified Reference Number: 3722704

Date: 8/24/2012

Product: Single-Package Heat Pump Air-Source

Model Number: PH3ZNB042000AA

Manufacturer: PAYNE HEATING AND COOLING

Trade/Brand name: PAYNE

Manufacturer responsible for the rating of this system combination is PAYNE HEATING AND COOLING

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):	41500
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	13.50
Heating Capacity(Btuh) @ 47 F:	41000
Region IV HSPF Rating (Heating):	7.70
Heating Capacity(Btuh) @ 17 F:	23200

* 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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GLENN I. JONES INC.

COOLING • HEATING

SPECIALISTS

State Cert. # CAC051486

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08/14/2012

Reference:HVAC permit:

Scharff Residence

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier PHZNB042, CE0801N08, TC-NHP01

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