



Certificate of Product Ratings

AHRI Certified Reference Number: 4385126

Date: 7/26/2012

Product: Single-Package Heat Pump Air-Source

Model Number: GPH1348H41B*

Manufacturer: GOODMAN MANUFACTURING CO., LP.

Trade/Brand name: GOODMAN, JANITROL, AMANA DISTINCTIONS, EVERREST, ONE HOUR AIR CONDITIONING AND HEATING, ENERGI AIR

Manufacturer responsible for the rating of this system combination is GOODMAN MANUFACTURING CO., LP.

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):	46000
EER Rating (Cooling):	11.00
SEER Rating (Cooling):	13.00
Heating Capacity(Btuh) @ 47 F:	44500
Region IV HSPF Rating (Heating):	7.70
Heating Capacity(Btuh) @ 17 F:	26000



* 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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Rotate to find worst case glass:

< Rotate Rotate >

Adjust square footage of window area on this home.

E 148 N 21 S 21 W 91
Shading %

House Information

What is the conditioned square footage of your house?
Square feet: 2136

When was your house built?

Before 1990 Between 1990 - 2000 After 2000

How do you want insulation values displayed?

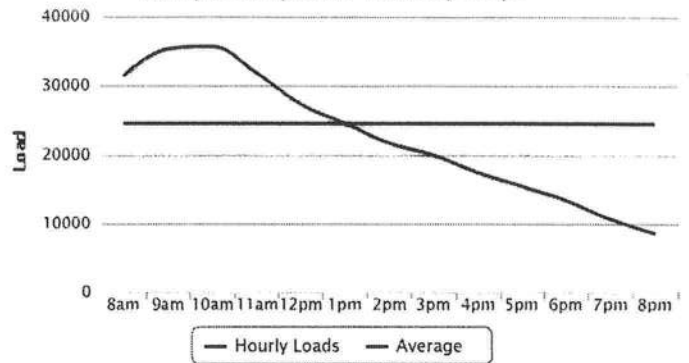
R U

Winter Electricity Rate	0.1	
Summer Electricity Rate	0.1	
Natural Gas Rate	1.2	
Propane Rate	2.5	
Oil Rate	2.3	
Summer indoor design temperature	75	+ -
Summer outdoor design temperature	93	+ -
Winter indoor design temperature	70	+ -
Winter outdoor design temperature	32	+ -
SHR	.75	
Number of Residents	2	+ -
Average Ceiling Height	8	+ -
Wall R-Value	11.11	+ -
Floor R-Value	5.00	+ -
Ceiling R-Value	18.87	+ -
Window U-Value	0.5	+ -

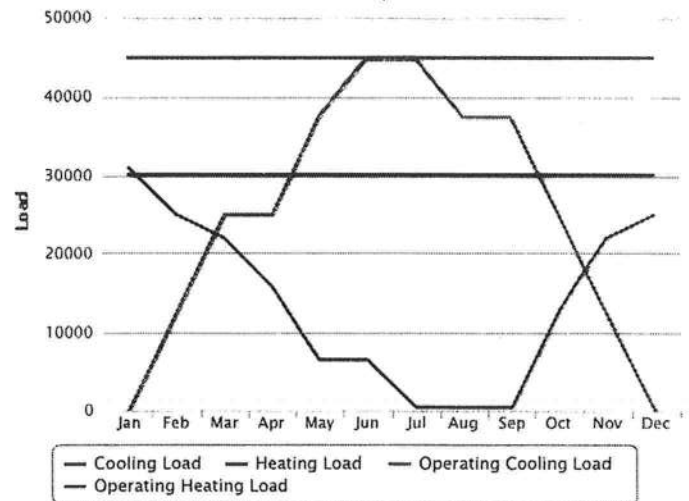
House Loads

Cooling Load: 44,980
Heating Load: 30,204

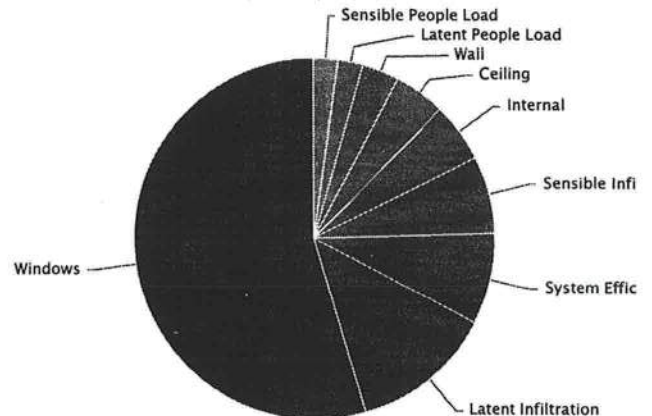
Adequate Exposure Diversity Graph



Loads Graph



Cooling Loads
44,980 btu/hr



Single Pane = 1
 Double Pane = 5
 Triple Pane = 3

Window SHGF

Clear = 1-.85
 Low-E = .6-.4

Grains of moisture difference

Duct Loss %

Duct Gain %

Cooling Infiltration Rate (ACH)

Heating Infiltration Rate (ACH)

Winter Ventilation

Summer Ventilation

0.85	+	-
53	+	-
10	+	-
10	+	-
0.6	+	-
0.8	+	-
0	+	-
0	+	-

Floors

Customer Information:

Fill in the customer information

Name:

Dianne Granoff

Email:

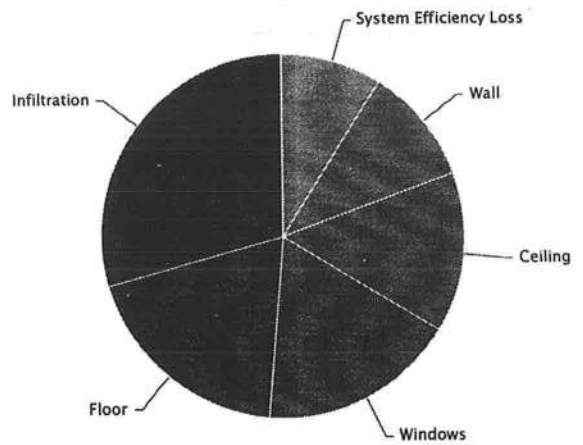
Phone:

386-984-6263

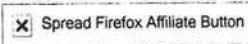
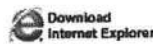
[Get Proposal](#)

Thanks to [Zillow.com](#) we were able to preset these values for you. If they are not correct please change them.

Heating Loads
 30,204 btu/hr



For best performance, make sure you are using the latest version of your browser:



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The Rheem DesignStar Load Calculation Program results are intended for use with Rheem Heating and Cooling systems only.

All calculations are based upon approved hvac industry standards and procedures, and comply with all local, state and federal code requirements. All computed results are Estimates. Product provided by Energy Design Systems and Idea Tree.