



Certificate of Product Ratings

AHRI Certified Reference Number: 3718649

Date: 4/20/2010

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

Outdoor Unit Model Number: N4H336A(G)KE*

Indoor Unit Model Number: FXM4X36**A*

Manufacturer: TEMPSTAR

Trade/Brand name: 13 SEER N SERIES R410A HP

Manufacturer responsible for the rating of this system combination is TEMPSTAR

Rated as follows in accordance with AHRI Standard 210/240-2006 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): 34000

EER Rating (Cooling): 12.00*

SEER Rating (Cooling): 14.50*

Heating Capacity(Btuh) @ 47 F: 34000

Region IV HSPF Rating (Heating): 8.20*

Heating Capacity(Btuh) @ 17 F: 21200

LOT 29 TIMBERLANDS

278 SW MULBERRY DR.
LAKE CITY FL 32024

A * following a rating indicates a voluntary rerate of previously published data, unless accompanied with a WAS which indicates an involuntary rerate.

Maronda Homes Inc.
6800 Southpoint Pkwy
Suite 300
Jacksonville, FL 32216
(904) 296-1490 ph

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed below.



2.5

BAYBURY



Certificate of Product Ratings

AHRI Certified Reference Number: 3718049

Date: 4/20/2010

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

Outdoor Unit Model Number: N4H330A(G)KE*

Indoor Unit Model Number: FXM4X30**A*

Manufacturer: TEMPSTAR

Trade/Brand name: 13 SEER N SERIES R410A HP

Manufacturer responsible for the rating of this system combination is TEMPSTAR

Rated as follows in accordance with AHRI Standard 210/240-2006 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): 11.50

SEER Rating (Cooling): 14.00*

Heating Capacity(Btuh) @ 47 F: 29200

Region IV HSPF Rating (Heating): 7.80

Heating Capacity(Btuh) @ 17 F: 18300

LOT 29 TIMBERLANDS

278 SW MULBERRY DR
LAKE CITY FL 32024

A * following a rating indicates a voluntary rerate of previously published data, unless accompanied with a WAS which indicates an involuntary rerate.

Maronda Homes Inc.
6800 Southpoint Pkwy
Suite 300
Jacksonville, FL 32216
(904) 296-1490 ph

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed below.



Air-Conditioning,
Heating, and
Refrigeration Institute

2009 Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 129162843185476695

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: BAYBURY L 12 - JACKSONVILLE
 Street:
 City, State, Zip: , FL ,
 Owner: MARONDA HOMES
 Design Location: FL, Jacksonville

Builder Name: MARONDA HOMES
 Permit Office:
 Permit Number:
 Jurisdiction:

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft ²)	2907
Conditioned floor area below grade (ft ²)	0
7. Windows(246.0 sqft.)	Description Area
a. U-Factor:	DbI, U=0.56 246.00 ft ²
SHGC:	SHGC=0.35
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	2.455 ft.
Area Weighted Average SHGC:	0.350
8. Floor Types (2907.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1312.00 ft ²
b. Floor Over Other Space	R=1.0 1185.00 ft ²
c. other (see details)	R= 410.00 ft ²

9. Wall Types(2544.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1264.00 ft ²
b. Concrete Block - Int Insul, Exterior	R=4.1 1088.00 ft ²
c. Frame - Wood, Adjacent	R=13.0 192.00 ft ²
d. N/A	R= ft ²
10. Ceiling Types (1722.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 1722.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: RoomsInBlock1, Ret: RoomsInBlock1, AH:	6 260
b. Sup: Attic, Ret: RoomsInBlock2, AH: RoomsInBI	6 320

12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	30.0 SEER:14.00
b. Central Unit	34.0 SEER:14.50

13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	30.0 HSPF:7.80
b. Electric Heat Pump	34.0 HSPF:8.20

14. Hot water systems	Cap: 50 gallons
a. Electric	EF: 0.900
b. Conservation features	
None	

15. Credits Pstal

Glass/Floor Area: 0.085

Total Proposed Modified Loads: 41.17

Total Standard Reference Loads: 59.79

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: KENNETH WAYNE CAMPBELL JR
 DATE: 8/7/12

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: KENNETH WAYNE CAMPBELL JR
 DATE: 8/7/12

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____
 DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with 403.2.2.1.1.

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist

LOT 29 TIMBERLANDS
 278 SW MULBERRY DR
 LAKE CITY FL 32024

Maronda Homes Inc.
 6800 Southpoint Pkwy
 Suite 300
 Jacksonville, FL 32216
 (904) 296-1490 ph
 (904) 332-0367 fax

6/20/2012 1:28 PM

EnergyGauge® USA - FlaRes2010 Section 405.4.1 Compliant Software

PROJECT

Title:	BAYBURY L 12 - JACKSONV	Bedrooms:	4	Address Type:	Street Address
Building Type:	FLProp2010	Conditioned Area:	2907	Lot #	
Owner:	MARONDA HOMES	Total Stories:	2	Block/SubDivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	MARONDA HOMES	Rotate Angle:	270	Street:	
Permit Office:		Cross Ventilation:	No	County:	DUVAL
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	, FL
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
	FL, Jacksonville	FL_JACKSONVILLE_INT	2	32	93	70	75	1281	49	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1312	10496
2	Block2	1595	12760

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	1312	10496	Yes	1.80529755	0	1	Yes	Yes	Yes
2	RoomsInBlock2	1595	12760	No	2.19470244	4	2	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
	1	Slab-On-Grade Edge Insulatio	RoomsInBlock1	149 ft	0	1312 ft²	----	0	0.25	0.75
	2	Floor over Garage	RoomsInBlock2	----	----	410 ft²	19	0	0	1
	3	Floor Over Other Space	RoomsInBlock2	----	----	1185 ft²	1	0	0.3	0.7

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
	1	Hip	Composition shingles	1865 ft²	0 ft²	Medium	0.96	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Full attic	Vented	150	1722 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	RoomsInBloc2	30	1722 ft²	0.07	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
	1	N	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.0999	10	0	8	0	80 ft²	0	0	0.6	0
	2	E	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.0999	34	0	8	0	272 ft²	0	0	0.6	0
	3	S	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.0999	40	0	8	0	320 ft²	0	0	0.6	0
	4	W	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.0999	32	0	8	0	256 ft²	0	0	0.6	0
	5	N	Exterior	Frame - Wood	RoomsInBloc	13	30	0	8	0	240 ft²	0	0.19	0.6	0
	6	E	Exterior	Frame - Wood	RoomsInBloc	13	36	0	8	0	288 ft²	0	0.19	0.6	0
	7	S	Exterior	Frame - Wood	RoomsInBloc	13	40	0	8	0	320 ft²	0	0.19	0.6	0
	8	W	Exterior	Frame - Wood	RoomsInBloc	13	52	0	8	0	416 ft²	0	0.19	0.6	0
	9	N	Garage	Frame - Wood	RoomsInBloc	13	24	0	8	0	192 ft²		0.19	0.01	0
	10	N	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.1	10		8		80 ft²		0	0.6	0
	11	N	Exterior	Concrete Block - Int Ins	RoomsInBloc	4.1	10		8		80 ft²		0	0.6	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
	1	N	Insulated	RoomsInBloc	None	0.16	2.998	0	6	8	20 ft²
	2	N	Insulated	RoomsInBloc	None	0.16	2.998	0	6	8	18 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
	1	N	10	TIM	Low-E Double	Yes	0.56	0.35	N	10 ft²	3 ft 0 in	10 ft 0 in	HERS 2006	None
	2	N	1	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	12 ft 0 in	HERS 2006	None
	3	S	3	TIM	Low-E Double	Yes	0.56	0.35	N	9 ft²	1 ft 0 in	12 ft 0 in	HERS 2006	None
	4	S	3	TIM	Low-E Double	Yes	0.56	0.35	N	40 ft²	1 ft 0 in	12 ft 0 in	HERS 2006	None
	5	S	3	TIM	Low-E Double	Yes	0.56	0.35	N	20 ft²	1 ft 0 in	12 ft 0 in	HERS 2006	None
	6	W	4	TIM	Low-E Double	Yes	0.56	0.35	N	20 ft²	10 ft 0 in	1 ft 0 in	HERS 2006	None
	7	N	5	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	2 ft 0 in	HERS 2006	None
	8	N	5	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	2 ft 0 in	HERS 2006	None
	9	N	11	TIM	Low-E Double	Yes	0.56	0.35	N	25 ft²	3 ft 0 in	1 ft 0 in	HERS 2006	None
	10	N	5	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	2 ft 0 in	HERS 2006	None
	11	S	7	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
	12	S	7	TIM	Low-E Double	Yes	0.56	0.35	N	15 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
	13	S	7	TIM	Low-E Double	Yes	0.56	0.35	N	20 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
	14	W	4	TIM	Low-E Double	Yes	0.56	0.35	N	12 ft²	10 ft 0 in	1 ft 0 in	HERS 2006	None

GARAGE												
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation						
	1	616 ft²	206 ft²	65 ft	8 ft	1						

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	1238.9	68.014	127.91	0.3412	7.0821
2	BySpaces	Proposed SLA	0.000360	1506.1	82.684	155.50	0.3412	7.0821

HEATING SYSTEM								
✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts	
	1	Electric Heat Pump	None	HSPF: 7.8	30 kBtu/hr	1	sys#1	
	2	Electric Heat Pump	None	HSPF: 8.2	34 kBtu/hr	2	sys#2	

COOLING SYSTEM									
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Central Unit	Split	SEER: 14	30 kBtu/hr	900 cfm	0.76	1	sys#1
	2	Central Unit	None	SEER: 14.5	34 kBtu/hr	1020 cfm	0.78	2	sys#2

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Garage	0.9	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

DUCTS														
✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
	1	RoomsInBloc	6	260 ft²	RoomsInBloc	20 ft²	DSE=0.88	RoomsInBI	4.8 cfm	0.00 %	0.00	0.60	1	1
	2	Attic	6	320 ft²	RoomsInBloc	25 ft²	DSE=0.88	RoomsInBI	0.0 cfm	0.00 %	0.00	0.60	2	2

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System	Run Time	Cooling System
None	0	0	0	0	1 - Electric Heat Pump	0%	1 - Central Unit

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:

, FL,

PERMIT #:

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	✓
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	✓
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	✓
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	✓
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	✓
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	N/A
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	✓
Ceilings/knee walls	405.2.1	R-19 space permitting.	✓

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 69

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Frame - Wood, Exterior	R=13.0	1264.00 ft²
3. Number of units, if multiple family	1		b. Concrete Block - Int Insul, Exterior	R=4.1	1088.00 ft²
4. Number of Bedrooms	4		c. Frame - Wood, Adjacent	R=13.0	192.00 ft²
5. Is this a worst case?	Yes		d. N/A	R=	ft²
6. Conditioned floor area (ft²)	2907		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	1722.00 ft²
a. U-Factor:	Dbl, U=0.56	246.00 ft²	b. N/A	R=	ft²
SHGC:	SHGC=0.35		c. N/A	R=	ft²
b. U-Factor:	N/A	ft²	11. Ducts		R ft²
SHGC:			a. Sup: RoomsInBlock1, Ret: RoomsInBlock1, AH:	6	260
c. U-Factor:	N/A	ft²	b. Sup: Attic, Ret: RoomsInBlock2, AH: RoomsInBl	6	320
SHGC:			12. Cooling systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	2.455 ft.		a. Central Unit	30.0	SEER:14.00
Area Weighted Average SHGC:	0.350		b. Central Unit	34.0	SEER:14.50
8. Floor Types	Insulation	Area	13. Heating systems	kBtu/hr	Efficiency
a. Slab-On-Grade Edge Insulation	R=0.0	1312.00 ft²	a. Electric Heat Pump	30.0	HSPF:7.80
b. Floor Over Other Space	R=1.0	1185.00 ft²	b. Electric Heat Pump	34.0	HSPF:8.20
c. other (see details)	R=	410.00 ft²	14. Hot water systems		Cap: 50 gallons
			a. Electric		EF: 0.9
			b. Conservation features		
			None		
			15. Credits		Pstat

certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature:

Date:

Address of New Home:

278 SW MULBERRY DR City/FL Zip: WALKER CITY FL, 32024



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

LOT 29 TIMBERHILLS

EnergyGauge® USA - FlaRes2010 Section 405.4.1 Compliant Software

Maronda Homes Inc.
6800 Southpoint Pkwy
Suite 300
Jacksonville, FL 32216
(904) 296-1490 ph

Project Information

For: BAYBURY 1ST FLOOR

Notes:

Design Information

Weather: Jacksonville Intl AP, FL, US

Winter Design Conditions

Outside db	32 °F
Inside db	70 °F
Design TD	38 °F

Summer Design Conditions

Outside db	93 °F
Inside db	75 °F
Design TD	18 °F
Daily range	M
Relative humidity	50 %
Moisture difference	51 gr/lb

Heating Summary

Structure	23350 Btuh
Ducts	4470 Btuh
Central vent (50 cfm)	2088 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	29908 Btuh

Sensible Cooling Equipment Load Sizing

Structure	17644 Btuh
Ducts	5487 Btuh
Central vent (50 cfm)	967 Btuh
Blower	0 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Use manufacturer's data	n
Rate/swing multiplier	0.98
Equipment sensible load	23520 Btuh

Latent Cooling Equipment Load Sizing

Structure	3402 Btuh
Ducts	1200 Btuh
Central vent (50 cfm)	1743 Btuh
Equipment latent load	6345 Btuh

	Heating	Cooling
Area (ft²)	1312	1312
Volume (ft³)	10496	10496
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	79	40

Equipment total load	29865 Btuh
Req. total capacity at 0.74 SHR	2.6 ton

Heating Equipment Summary

Make TEMPSTAR
Trade HEATPUMP
Model N4H330
ARI ref no.

Efficiency	7.8 HSPF
Heating input	0 Btuh @ 47°F
Heating output	0 °F
Temperature rise	0 °F
Actual air flow	935 cfm
Air flow factor	0.034 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

Cooling Equipment Summary

Make TEMPSTAR
Trade HEATPUMP
Cond N4H330
Coil FXM4X30
ARI ref no.

Efficiency	12.0 EER, 14 SEER
Sensible cooling	22200 Btuh
Latent cooling	7800 Btuh
Total cooling	30000 Btuh
Actual air flow	935 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.79

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.





wrightsoft

Project Summary

Entire House

MARONDA HOMES

Job: BAYBURY 2ND FLOOR
Date: Oct 25, 2010
By: G. CARMACK

Project Information

For: BAYBURY 2ND FLOOR

Notes:

Design Information

Weather: Jacksonville Intl AP, FL, US

Winter Design Conditions

Outside db 32 °F
Inside db 70 °F
Design TD 38 °F

Summer Design Conditions

Outside db 93 °F
Inside db 75 °F
Design TD 18 °F
Daily range M
Relative humidity 50 %
Moisture difference 51 gr/lb

Heating Summary

Structure 19743 Btuh
Ducts 4815 Btuh
Central vent (0 cfm) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 24557 Btuh

Sensible Cooling Equipment Load Sizing

Structure 23630 Btuh
Ducts 5905 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	1595	1595
Volume (ft ³)	12760	12760
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	81	43

Use manufacturer's data n

Rate/swing multiplier 0.98
Equipment sensible load 28826 Btuh

Latent Cooling Equipment Load Sizing

Structure 3282 Btuh
Ducts 1297 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 4580 Btuh

Equipment total load 33406 Btuh
Req. total capacity at 0.78 SHR 3.1 ton

Heating Equipment Summary

Make TEMPSTAR
Trade HEATPUMP
Model N4H336
ARI ref no.

Efficiency 8.2 HSPF
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 935 cfm
Air flow factor 0.038 cfm/Btuh
Static pressure 0.60 in H2O
Space thermostat

Cooling Equipment Summary

Make TEMPSTAR
Trade HEATPUMP
Cond N4H336
Coil FXM4X36
ARI ref no.

Efficiency 12.0 EER, 14.5 SEER
Sensible cooling 26520 Btuh
Latent cooling 7480 Btuh
Total cooling 34000 Btuh
Actual air flow 935 cfm
Air flow factor 0.032 cfm/Btuh
Static pressure 0.60 in H2O
Load sensible heat ratio 0.87

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft

Right-Suite® Universal 7.1.25 RSU06462

...lgcarmack\My Documents\2009 JACKSONVILLE\BAYBURY 2ND FLOOR.rup Calc = MJ8 Orientation = E

2011-Jan-21 10:42:55

Page 1