



**Load Short Form
System #1
New Age Dimensions, LLC.**

MANUAL J

Job: Williams Residence
Date: 01/06/2014
By: John Pirkl
Plan: Manual J Only

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Project Information

For: Touchstone Heating & Air, Inc.
490 S.E. 3rd Avenue, Lake Butler, FL 32054
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Design Information

	Htg	Ctg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	47		

HEATING EQUIPMENT

Make Rheem
Trade RHEEM RPNL SERIES
Model RPNL-031JEZ
AHRI ref 3395597
Efficiency 9.5 HSPF
Heating input
Heating output 26200 Btuh @ 47°F
Temperature rise 24 °F
Actual air flow 1000 cfm
Air flow factor 0.040 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat

COOLING EQUIPMENT

Make Rheem
Trade RHEEM RPNL SERIES
Cond RPNL-031JEZ
Coil RHKL-HM3617++RCSL-H*3617
AHRI ref 3395597
Efficiency 11.5 EER, 14 SEER
Sensible cooling 20160 Btuh
Latent cooling 8640 Btuh
Total cooling 28800 Btuh
Actual air flow 1000 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Ctg load (Btuh)	Htg AVF (cfm)	Ctg AVF (cfm)
Mstr Bedroom	418	9293	9270	374	398
WIC Hers	66	1436	520	58	22
WIC His	49	67	109	3	5
Mech Rm 2	20	27	706	1	30
Tlt	24	522	189	21	8
Mstr Bathrm	174	4954	3918	199	168
Den	125	3409	3309	137	142
Pwdr Rm	34	46	76	2	3
Living Room	328	5082	5178	205	222

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



Morning	249	2980	4131	131	168
Bedroom #4	188	2569	2892	113	118
WIC #4	25	663	208	29	8
Pool Bath	61	95	137	4	6
Media Room	268	7985	4781	350	194
Leisure Room	327	12306	15411	540	627
System #2	2605	45570	49146	2000	2000
Other equip loads		0	0		
Equip. @ 0.97 RSM			47671		
Latent cooling			8477		
TOTALS	2605	45570	56148	2000	2000

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