



**Load Short Form**  
**Entire House**  
**New Age Dimensions, LLC.**

**Job:** Willie Mosley  
**Date:** 11/04/2025  
**By:** John Pirkl  
**Plan:** Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

**Project Information**

**For:** Florida Homes, Inc.  
 13919 N.W. 145th Avenue, Alachua, FL 32615  
 Phone: (386) 418 - 4663 Fax: (386) 462 - 7718

**Design Information**

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	68	75	Construction quality	0
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	44		

**HEATING EQUIPMENT**

**Make** Goodman Mfg.  
**Trade** GOODMAN  
**Model** GSZB402410A  
**AHRI ref** 213368082

**Efficiency** 7.5 HSPF2

**Heating input**  
**Heating output** 22000 Btuh @ 47°F  
**Temperature rise** 25 °F  
**Actual air flow** 800 cfm  
**Air flow factor** 0.049 cfm/Btuh  
**Static pressure** 0.51 in H2O  
**Space thermostat**  
**Capacity balance point = 27 °F**

**COOLING EQUIPMENT**

**Make** Goodman Mfg.  
**Trade** GOODMAN  
**Cond** GSZB402410A  
**Coil** AMST24BU1400B  
**AHRI ref** 213368082

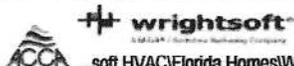
**Efficiency** 12.5 EER2, 15 SEER2

**Sensible cooling** 15820 Btuh  
**Latent cooling** 6780 Btuh  
**Total cooling** 22600 Btuh  
**Actual air flow** 800 cfm  
**Air flow factor** 0.052 cfm/Btuh  
**Static pressure** 0.51 in H2O  
**Load sensible heat ratio** 0.85

**Backup:**  
 Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #2	150	3133	2257	154	118
Bedroom #1	170	3313	2713	162	142
Utility	65	753	1543	37	81
Bathrm	82	668	322	33	17
Kitchen/Dining	205	3864	3955	189	207
Living Room	329	4591	4524	225	236

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



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Entire House	1000	16321	15315	800	800
Other equip loads		0	1707		
Equip. @ 0.97 RSM			16545		
Latent cooling			3085		
TOTALS	1000	16321	19631	800	800

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



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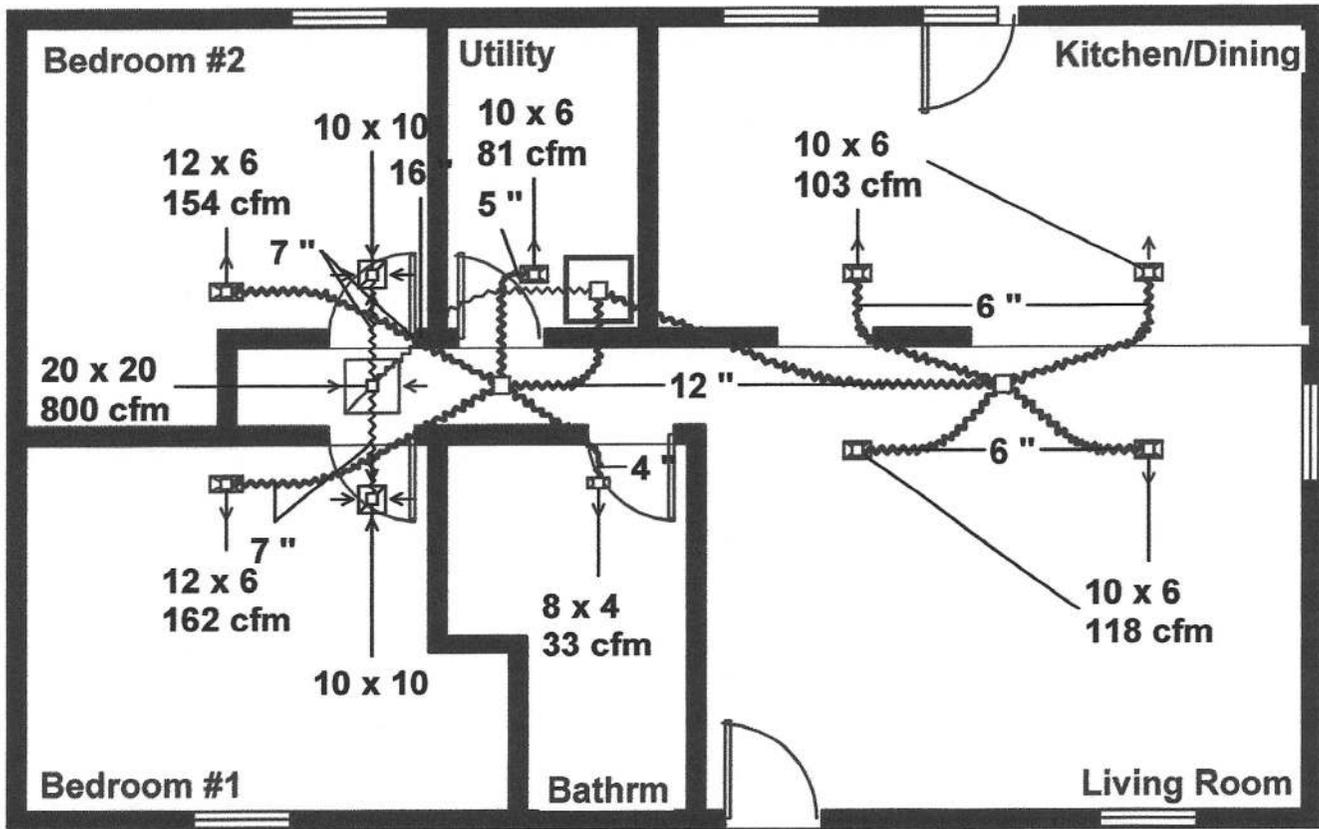
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**Job #: Willie Mosley**  
**Performed by John Pirkl for:**  
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**Duct System Summary**  
**Entire House**  
**New Age Dimensions, LLC.**

Job: Willie Mosley  
 Date: 11/04/2025  
 By: John Pirkl  
 Plan: Manual J and D

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	<b>Heating</b>	<b>Cooling</b>
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.228 / 0.102 in H2O	0.228 / 0.102 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	800 cfm	800 cfm
Total effective length (TEL)	268 ft	

**Supply Branch Detail Table**

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm	h 668	33	17	0.880	4.0	0x0	VIFx	10.6	165.0	st1
Bedroom #1	h 3313	162	142	0.880	7.0	0x0	VIFx	15.3	165.0	st1
Bedroom #2	h 3133	154	118	0.880	7.0	0x0	VIFx	15.3	165.0	st1
Kitchen/Dining	c 1978	95	103	0.880	6.0	0x0	VIFx	19.9	165.0	st2
Kitchen/Dining-A	c 1978	95	103	0.880	6.0	0x0	VIFx	19.9	165.0	st2
Living Room	c 2262	112	118	0.880	6.0	0x0	VIFx	18.3	165.0	st2
Living Room-A	c 2262	112	118	0.880	6.0	0x0	VIFx	18.4	165.0	st2
Utility	c 1543	37	81	0.880	5.0	0x0	VIFx	10.5	165.0	st1

**Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	386	357	0.880	491	12.0	0 x 0	VinIFix	
st2	Peak AVF	414	443	0.880	564	12.0	0 x 0	VinIFix	

**Return Branch Detail Table**

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	20x 19	800	800	83.2	0.880	573	16.0	0x 0		VIFx	rst2

## Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst2	Peak AVF	800	800	0.880	573	16.0	0 x 0	ViniFlx	