



Load Short Form
Entire House
New Age Dimensions, LLC.

Job: Dan & Zarsa Cannon
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	Method	Infiltration	Simplified Average
Outside db (°F)	33	92	Construction quality		0
Inside db (°F)	68	75	Fireplaces		
Design TD (°F)	35	17			
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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...HVAC\Florida Homes\Dan & Zarsa Cannon Bay V.rup Calc = MJR Front Door faces: S

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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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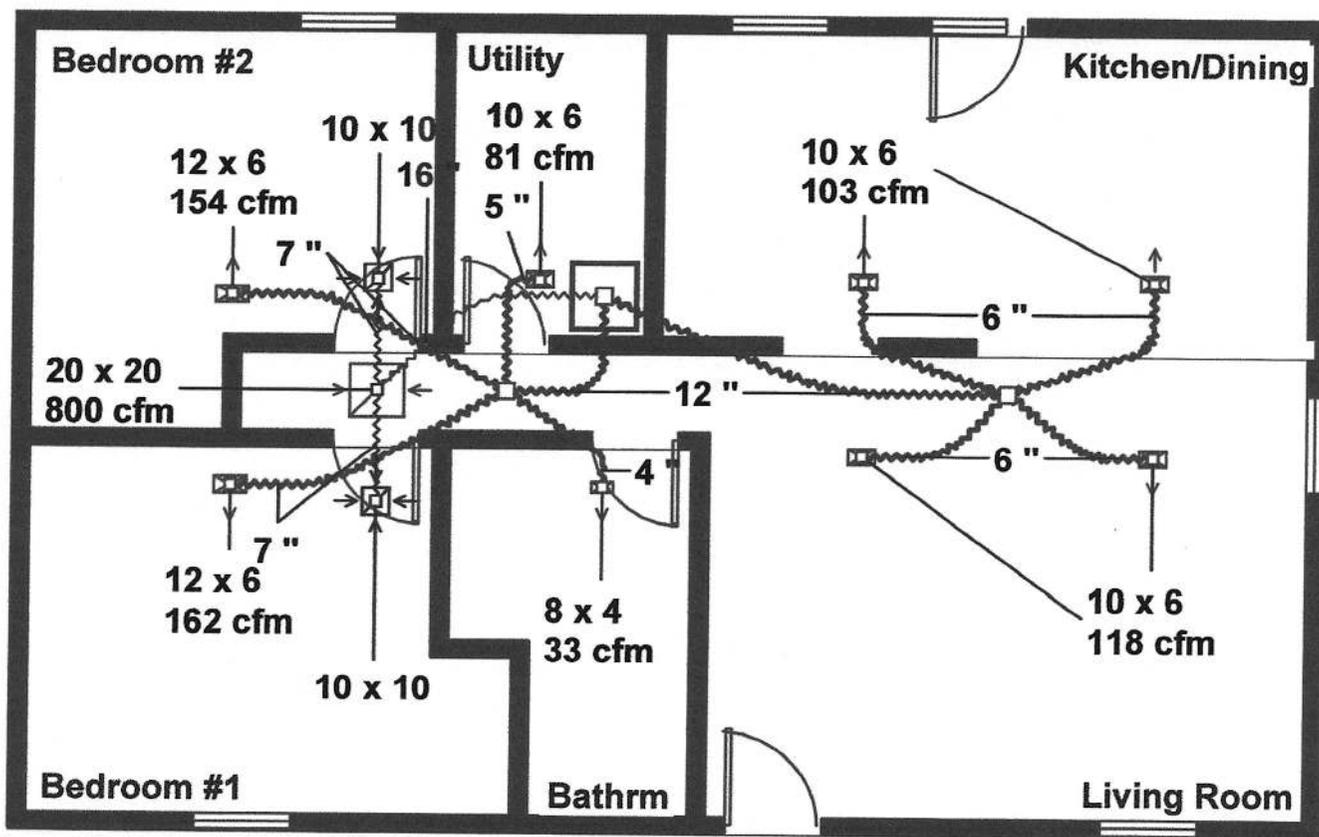
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Sheet 1



Job #: Dan & Zarsa Cannon
Performed by John Pirkl for:

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Alachua, FL 32615
Phone: (386) 418 - 4663 Fax: (386) 462 - 7718

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wrightsoft Duct System Summary
Entire House
 New Age Dimensions, LLC.

Job: Dan & Zarsa Cannon
 Date: 11/04/2025
 By: John PirkI
 Plan: Manual J and D

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

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	ViniFlx	
st2	Peak AVF	414	443	0.880	564	12.0	0 x 0	ViniFlx	

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	