



Load Short Form
Entire House
New Age Dimensions, LLC.

Job: Virginia Bing
Date: 11/04/2025
By: John PirkI
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	
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	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

Backup:

Input = 5 kW, Output = 17061 Btuh, 100 AFUE

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #2	150	3133	2272	154	118
Bedroom #1	170	3313	2602	162	135
Utility	65	753	1513	37	79
Bathrm	82	668	316	33	16
Kitchen/Dining	205	3864	4002	189	208
Living Room	329	4591	4673	225	243

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



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...soft HVAC\Florida Homes\Virginia Bing Bay V.rup Calc = MJ8 Front Door faces: N

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Entire House	1000	16321	15377	800	800
Other equip loads		0	1707		
Equip. @ 0.97 RSM			16606		
Latent cooling			3085		
TOTALS	1000	16321	19691	800	800

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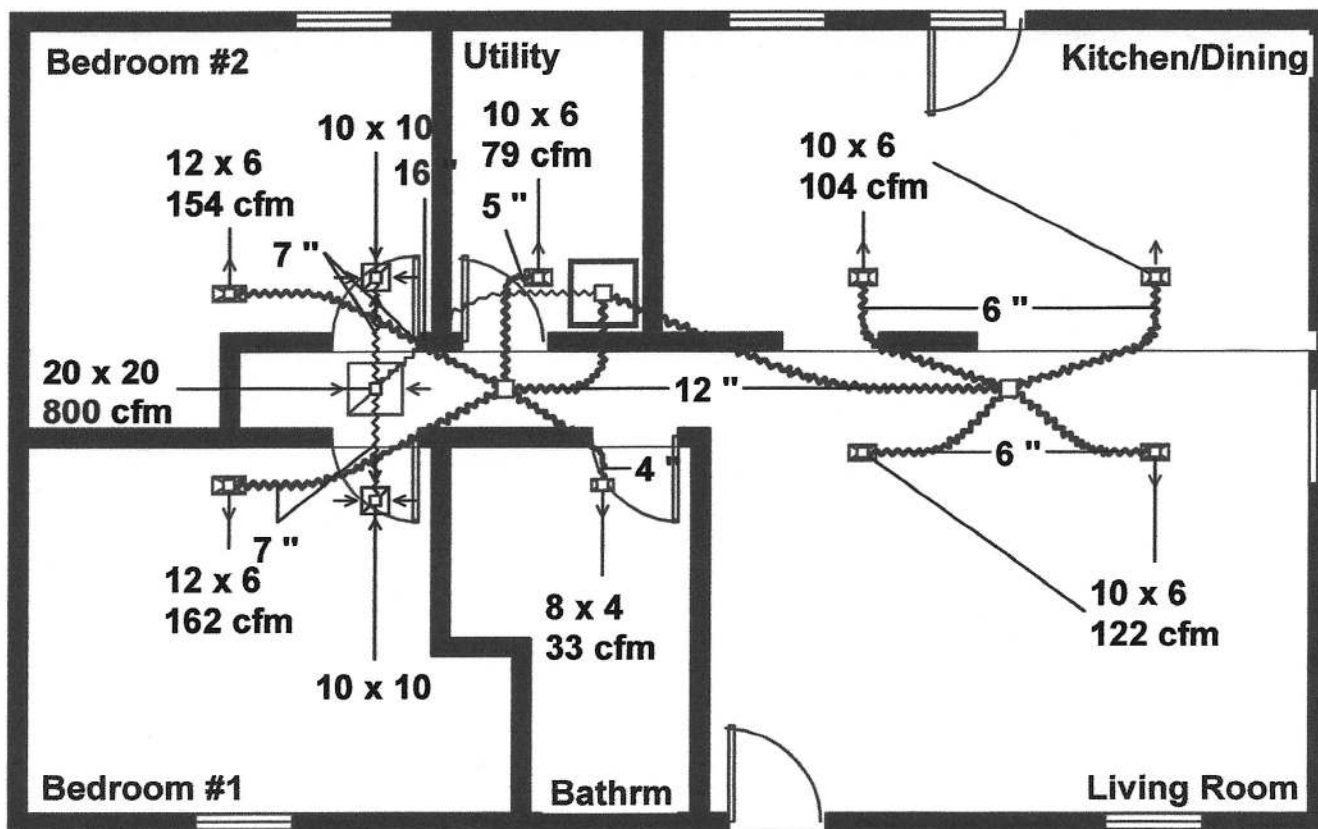
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Sheet 1



Job #: Virginia Bing
Performed by John PirkI for:

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Duct System Summary

Entire House

New Age Dimensions, LLC.

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	Heating	Cooling
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	16	0.880	4.0	0x0	VIFx	10.6	165.0	st1
Bedroom #1	h 3313	162	135	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 2001	95	104	0.880	6.0	0x0	VIFx	19.9	165.0	st2
Kitchen/Dining-A	c 2001	95	104	0.880	6.0	0x0	VIFx	19.9	165.0	st2
Living Room	c 2336	112	122	0.880	6.0	0x0	VIFx	18.3	165.0	st2
Living Room-A	c 2336	112	122	0.880	6.0	0x0	VIFx	18.4	165.0	st2
Utility	c 1513	37	79	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	349	0.880	491	12.0	0 x 0	VinIFlx	
st2	Peak AVF	414	451	0.880	575	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	