



Load Short Form

Entire House

New Age Dimensions, LLC.

Job: Robert & Madeleine We...
Date: 06/02/2025
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: John F Crawford Homes, LLC
1083 Bessent Road, Starke, FL 32091
Phone: (904) 338 - 5683
Email: crawforddevelopmentgroup@gmail.com

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	47		

HEATING EQUIPMENT

Make Carrier
Trade PERFORMANCE 16 SEER2 HP
Model 27SPA642A00300
AHRI ref 214179991
Efficiency 7.8 HSPF2
Heating input
Heating output 40500 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 1400 cfm
Air flow factor 0.041 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 30 °F

Backup:
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Carrier
Trade PERFORMANCE 16 SEER2 HP
Cond 27SPA642A00300
Coil FJ5ANBD60L00
AHRI ref 214179991
Efficiency 11.7 EER2, 15.2 SEER2
Sensible cooling 29750 Btuh
Latent cooling 12750 Btuh
Total cooling 42500 Btuh
Actual air flow 1400 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.82

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #3	190	4325	3494	175	161
Bathrm	54	724	571	29	26
Bedroom #2	166	4111	3549	167	164
Living Room	302	4977	5314	202	245
Laundry	135	2930	2632	119	122
Mud Rm	76	1094	1367	44	63
Kitchen/Dine	425	5620	6953	228	321
Pwdr	42	906	479	37	22
Mstr Bedroom	250	4098	3439	166	159
Tlt	34	603	331	24	15
Mstr WIC	85	1018	387	41	18
Mstr Bathrm	159	4143	1793	168	83

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

Entire House	1917	34549	30310	1400	1400
Other equip loads		0	1707		
Equip. @ 0.97 RSM			31056		
Latent cooling			6865		
TOTALS	1917	34549	37921	1400	1400

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



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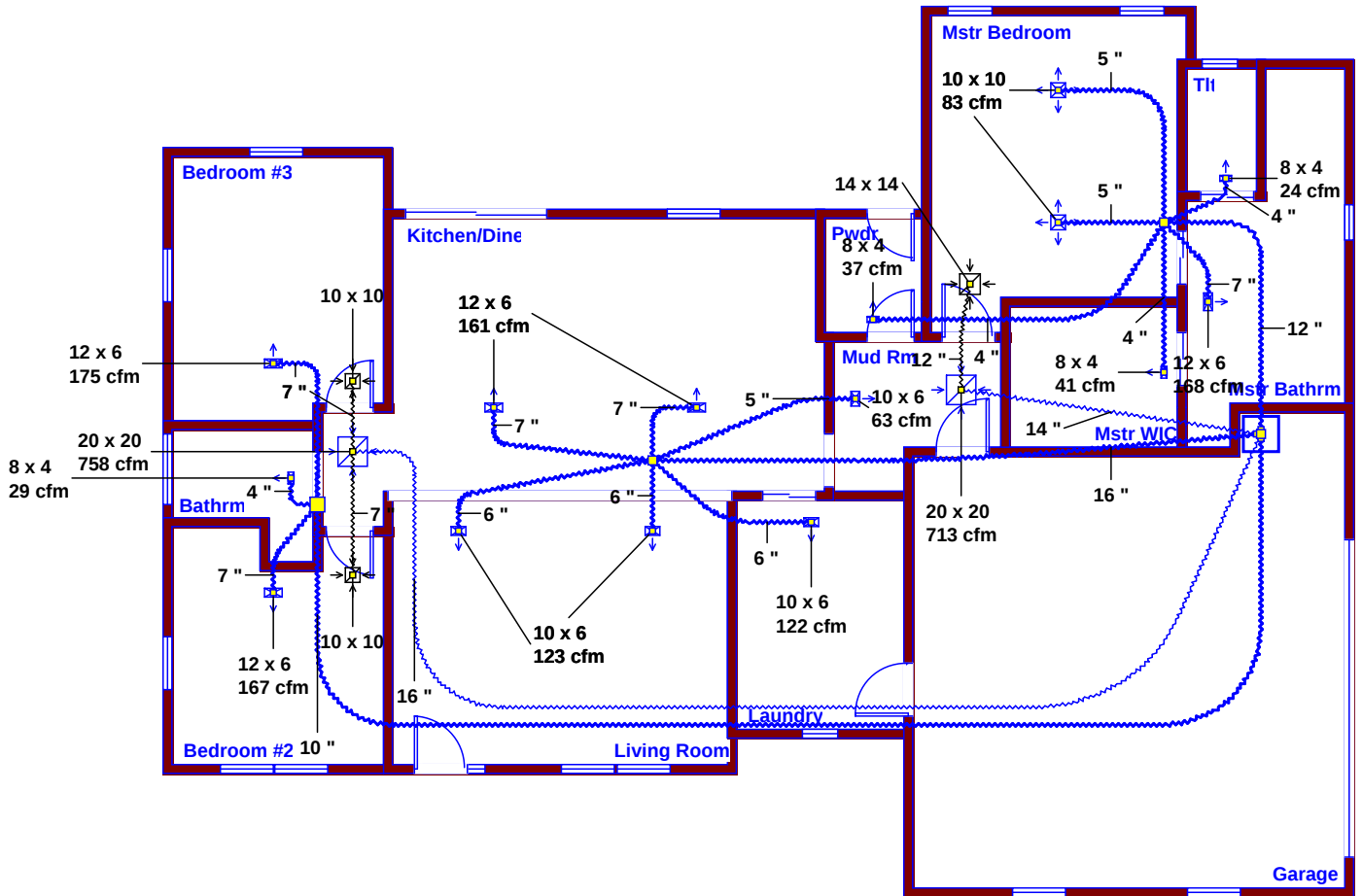
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Sheet 1



Job #: Robert & Madeleine Webb Residen.
Performed by John Pirkel for:
John F Crawford Homes, LLC
1083 Bessent Road
Starke, FL 32091
Phone: (904) 338 - 5683
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New Age Dimensions, LLC.

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Manual S Compliance Report

Entire House

New Age Dimensions, LLC.

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Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	32016	Btuh	Entering coil DB:	78.4°F
Outdoor design WB:	76.3°F	Latent gain:	6865	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	38882	Btuh		
Indoor RH:	50%	Estimated airflow:	1400	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	27SPA642A00300+FJ5ANBD60L00	
Actual airflow:	1400	cfm		
Sensible capacity:	29750	Btuh	93% of load	
Latent capacity:	12750	Btuh	186% of load	
Total capacity:	42500	Btuh	109% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	34549	Btuh	Entering coil DB:	67.0°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	27SPA642A00300+FJ5ANBD60L00	
Actual airflow:	1400	cfm		
Output capacity:	40500	Btuh	117% of load	Capacity balance: 30 °F
Supplemental heat required:	0	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	1400	cfm		
Output capacity:	10.0	kW	99% of load	Temp. rise: 22 °F

Meets all requirements of ACCA Manual S.



Duct System Summary

Entire House

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	Heating	Cooling
External static pressure	0.51 in H ₂ O	0.51 in H ₂ O
Pressure losses	0.18 in H ₂ O	0.18 in H ₂ O
Available static pressure	0.33 in H ₂ O	0.33 in H ₂ O
Supply / return available pressure	0.205 / 0.125 in H ₂ O	0.205 / 0.125 in H ₂ O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1400 cfm	1400 cfm
Total effective length (TEL)	424 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 724	29	26	0.880	4.0	0x0	VIFx	85.5	170.0	st1
Bedroom #2	h 4111	167	164	0.880	7.0	0x0	VIFx	88.4	170.0	st1
Bedroom #3	h 4325	175	161	0.880	7.0	0x0	VIFx	93.0	170.0	st1
Kitchen/Dine	c 3477	114	161	0.880	7.0	0x0	VIFx	45.6	165.0	st3
Kitchen/Dine-A	c 3477	114	161	0.880	7.0	0x0	VIFx	40.1	165.0	st3
Laundry	c 2632	119	122	0.880	6.0	0x0	VIFx	44.9	165.0	st3
Living Room	c 2657	101	123	0.880	6.0	0x0	VIFx	47.7	165.0	st3
Living Room-A	c 2657	101	123	0.880	6.0	0x0	VIFx	38.6	160.0	st3
Mstr Bathrm	h 4143	168	83	0.880	7.0	0x0	VIFx	23.0	165.0	st2
Mstr Bedroom	h 2049	83	79	0.880	5.0	0x0	VIFx	31.0	165.0	st2
Mstr Bedroom-A	h 2049	83	79	0.880	5.0	0x0	VIFx	23.5	160.0	st2
Mstr WIC	h 1018	41	18	0.880	4.0	0x0	VIFx	26.0	160.0	st2
Mud Rm	c 1367	44	63	0.880	5.0	0x0	VIFx	46.8	165.0	st3
Pwdr	h 906	37	22	0.880	4.0	0x0	VIFx	37.0	165.0	st2
Tlt	h 603	24	15	0.880	4.0	0x0	VIFx	22.3	165.0	st2

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	371	352	0.880	681	10.0	0 x 0	VinIFlx	
st2	Peak AVF	436	297	0.880	556	12.0	0 x 0	VinIFlx	
st3	Peak AVF	592	751	0.880	538	16.0	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
rb2	20x 17	713	642	87.2	0.880	667	14.0	0x 0		VIFx	rst6
rb1	20x 18	687	758	161.0	0.880	543	16.0	0x 0		VIFx	rst5

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst5	Peak AVF	687	758	0.880	543	16.0	0 x 0	VinIFlx	
rst6	Peak AVF	713	642	0.880	667	14.0	0 x 0	VinIFlx	