



Load Short Form
Entire House
New Age Dimensions, LLC.

Job: Reyes Residence
 Date: 02/03/2026
 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: John F Crawford Homes, LLC
 1083 Bessent Road, Starke, FL 32091
 Phone: (904) 338 - 5683
 Email: crawforddevelopmentgroup@gmail.com

Design Information

	Htg	Clg	Method	Infiltration
Outside db (°F)	33	92		Simplified
Inside db (°F)	68	75	Construction quality	Semi-tight
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 2-STAGE 17 SEER HP
 Model GH7TAN46000AA0
 AHRI ref 213310424

Efficiency 8.1 HSPF2
 Heating input
 Heating output 60000 Btuh @ 47°F
 Temperature rise 29 °F
 Actual air flow 1900 cfm
 Air flow factor 0.041 cfm/Btuh
 Static pressure 0.51 in H2O
 Space thermostat
 Capacity balance point = 29 °F

COOLING EQUIPMENT

Make Carrier
 Trade 2-STAGE 17 SEER HP
 Cond GH7TAN46000AA0
 Coil F54AABD60L
 AHRI ref 213310424

Efficiency 12.0 EER2, 16 SEER2
 Sensible cooling 39900 Btuh
 Latent cooling 17100 Btuh
 Total cooling 57000 Btuh
 Actual air flow 1900 cfm
 Air flow factor 0.056 cfm/Btuh
 Static pressure 0.51 in H2O
 Load sensible heat ratio 0.73

Backup:
 Input = 15 kW, Output = 51182 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom #4	236	5073	4084	209	230
WIC #4	34	523	189	22	11
Bathrm #4	57	103	70	4	4
WIC #3	38	581	211	24	12
Bedroom #3	196	3716	2357	153	133
Bathrm #3	60	1882	687	78	39
Bedroom #2	221	3703	2366	153	133
Living Room	566	4997	5591	206	314
Dining	215	1650	725	68	41
Foyer	130	2322	1077	96	61
Coat Clst	20	37	25	2	1
Sitting	314	7009	4157	289	234
Kitchen	319	3576	3548	147	200
Laundry	76	138	1129	6	63

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



Pantry	60	109	73	4	4
WIC Hers	48	575	223	24	13
WIC His	52	1666	594	69	33
Mstr Bathrm	195	2762	1922	114	108
Tlt	23	1125	394	46	22
Mstr Bedroom	268	4554	4360	188	245
Entire House	3127	46102	33781	1900	1900
Other equip loads		3783	3937		
Equip. @ 0.97 RSM			36587		
Latent cooling			13946		
TOTALS	3127	49885	50533	1900	1900

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



Manual S Compliance Report
Entire House
New Age Dimensions, LLC.

Job: Reyes Residence
 Date: 02/03/2026
 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

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	37718	Btuh	Entering coil DB:	77.1°F
Outdoor design WB:	76.3°F	Latent gain:	13946	Btuh	Entering coil WB:	64.2°F
Indoor design DB:	75.0°F	Total gain:	51664	Btuh		
Indoor RH:	50%	Estimated airflow:	1900	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH7TAN46000AA0+F54AABD60L	
Actual airflow:	1900	cfm		
Sensible capacity:	39900	Btuh	106%	of load
Latent capacity:	17100	Btuh	123%	of load
Total capacity:	57000	Btuh	110%	of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	49885	Btuh	Entering coil DB:	66.0°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH7TAN46000AA0+F54AABD60L	
Actual airflow:	1900	cfm		
Output capacity:	60000	Btuh	120%	of load
Supplemental heat required:	0	Btuh		
			Capacity balance:	29 °F
			Economic balance:	-99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	1900	cfm		
Output capacity:	15.0	kW	103%	of load Temp. rise: 34 °F

Meets all requirements of ACCA Manual S.





Duct System Summary

Entire House

New Age Dimensions, LLC.

Job: Reyes Residence
 Date: 02/03/2026
 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

	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	0.219 / 0.111 in H2O	0.219 / 0.111 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1900 cfm	1900 cfm
Total effective length (TEL)		372 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 #3	h 1882	78	39	0.880	5.0	0x0	VIFx	39.0	155.0	st2
Bathrm #4	h 103	4	4	0.880	4.0	0x0	VIFx	66.4	170.0	st1
Bedroom #2	h 3703	153	133	0.880	7.0	0x0	VIFx	31.9	160.0	st2
Bedroom #3	h 3716	153	133	0.880	7.0	0x0	VIFx	72.4	170.0	st1
Bedroom #4	c 2042	105	115	0.880	6.0	0x0	VIFx	68.4	175.0	st1
Bedroom #4-A	c 2042	105	115	0.880	6.0	0x0	VIFx	70.2	175.0	st1
Coat Clst	h 37	2	1	0.880	4.0	0x0	VIFx	27.5	160.0	st2
Dining	h 1650	68	41	0.880	5.0	0x0	VIFx	27.6	165.0	st3
Foyer	h 2322	96	61	0.880	5.0	0x0	VIFx	26.4	155.0	st2
Kitchen	c 1774	74	100	0.880	6.0	0x0	VIFx	40.1	170.0	st3
Kitchen-A	c 1774	74	100	0.880	6.0	0x0	VIFx	37.6	170.0	st3
Laundry	c 1129	6	63	0.880	5.0	0x0	VIFx	46.0	170.0	st3
Living Room	c 2795	103	157	0.880	7.0	0x0	VIFx	42.1	170.0	st3
Living Room-A	c 2795	103	157	0.880	7.0	0x0	VIFx	39.2	170.0	st3
Mstr Bathrm	h 2762	114	108	0.880	6.0	0x0	VIFx	30.8	170.0	st4
Mstr Bedroom	c 2180	94	123	0.880	6.0	0x0	VIFx	32.9	170.0	st4
Mstr Bedroom-A	c 2180	94	123	0.880	6.0	0x0	VIFx	26.7	165.0	st4
Pantry	h 109	4	4	0.880	4.0	0x0	VIFx	46.9	170.0	st3
Sitting	h 3505	144	117	0.880	7.0	0x0	VIFx	38.1	160.0	st2
Sitting-A	h 3505	144	117	0.880	7.0	0x0	VIFx	31.9	155.0	st2
Tit	h 1125	46	22	0.880	4.0	0x0	VIFx	42.7	170.0	st4
WIC #3	h 581	24	12	0.880	4.0	0x0	VIFx	72.0	175.0	st1
WIC #4	h 523	22	11	0.880	4.0	0x0	VIFx	65.9	170.0	st1
WIC Hers	h 575	24	13	0.880	4.0	0x0	VIFx	37.3	170.0	st4
WIC His	h 1666	69	33	0.880	5.0	0x0	VIFx	46.7	170.0	st4

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	412	389	0.880	525	12.0	0 x 0	VinIFlx	
st2	Peak AVF	616	468	0.880	576	14.0	0 x 0	VinIFlx	
st3	Peak AVF	431	622	0.880	582	14.0	0 x 0	VinIFlx	
st4	Peak AVF	440	421	0.880	561	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
rb2	20x 18	715	761	87.9	0.880	545	16.0	0x 0		VIFx	
rb3	16x 13	440	421	75.6	0.880	561	12.0	0x 0		VIFx	
rb1	20x 17	745	718	124.6	0.880	697	14.0	0x 0		VIFx	rst3

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst3	Peak AVF	745	718	0.880	697	14.0	0 x 0	VinIFlx	