

Manual S Compliance Report

Entire House

New Age Dimensions, LLC.

Job: Irma Hernandez Reside...
Date: 5/10/2022
By: Dakota Cross
Plan: Manual J & 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: Jasperstone Builders
2632 N.W. 42rd Street, Ste 2186, Gainesville, FL 32606
Phone: (352) 222 - 4505

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	26541	Btuh	Entering coil DB:	78.4°F
Outdoor design WB:	76.3°F	Latent gain:	6241	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	32782	Btuh		
Indoor RH:	50%	Estimated airflow:	1200	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZ140361K+ARUF37D14A
Actual airflow:	1200	cfm	
Sensible capacity:	28299	Btuh	107% of load
Latent capacity:	5724	Btuh	92% of load
Total capacity:	34023	Btuh	104% of load SHR: 83%

Heating Equipment

Design Conditions

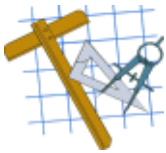
Outdoor design DB:	33.4°F	Heat loss:	27371	Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZ140361K+ARUF37D14A
Actual airflow:	1200	cfm	
Output capacity:	32800	Btuh	120% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	30	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	1200	cfm	
Output capacity:	10.0	kW	125% of load Temp. rise: 26 °F

Meets all requirements of ACCA Manual S.



Load Short Form

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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 Goodman Mfg.
 Trade GOODMAN
 Model GSZ140361K
 AHRI ref 201645069

Efficiency 8.2 HSPF
 Heating input
 Heating output 32800 Btuh @ 47°F
 Temperature rise 25 °F
 Actual air flow 1200 cfm
 Air flow factor 0.044 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 Goodman Mfg.
 Trade GOODMAN
 Cond GSZ140361K
 Coil ARUF37D14A
 AHRI ref 201645069

Efficiency 11.5 EER, 14 SEER
 Sensible cooling 24080 Btuh
 Latent cooling 10320 Btuh
 Total cooling 34400 Btuh
 Actual air flow 1200 cfm
 Air flow factor 0.048 cfm/Btuh
 Static pressure 0.51 in H2O
 Load sensible heat ratio 0.81

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Mstr Bedroom	247	4336	4078	190	197
Mstr Bathrm	77	1042	492	46	24
Mstr WIC	47	55	95	2	5
Bedroom #3	189	1937	2234	85	108
Bedroom #2	198	4055	3522	178	170
Bathrm #2	59	797	376	35	18
Foyer	233	3725	2046	163	99
Family RM/Dining	350	6355	7394	279	357
Kitchen	294	5070	4599	222	222

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

Entire House	1692	27371	24835	1200	1200
Other equip loads		0	1707		
Equip. @ 0.97 RSM			25745		
Latent cooling			6241		
TOTALS	1692	27371	31986	1200	1200

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



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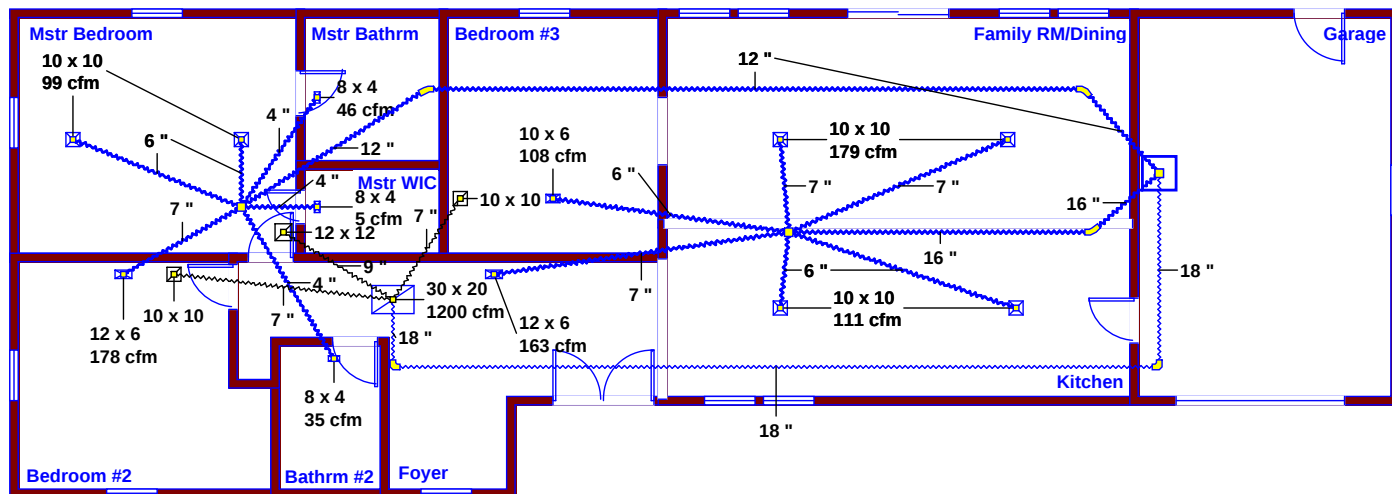
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Sheet 1



Job #: Irma Hernandez Residence
Performed by Dakota Cross for:

Jasperstone Builders
2632 N.W. 42nd Street, Ste 2186
Gainesville, FL 32606
Phone: (352) 222 - 4505

New Age Dimensions, LLC.

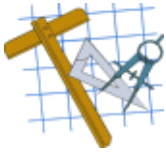
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Duct System Summary

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	0.209 / 0.121 in H ₂ O	0.209 / 0.121 in H ₂ O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1200 cfm	1200 cfm
Total effective length (TEL)	386 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 #2	h 797	35	18	0.880	4.0	0x0	VIFx	69.3	175.0	st5
Bedroom #2	h 4055	178	170	0.880	7.0	0x0	VIFx	66.8	175.0	st5
Bedroom #3	c 2234	85	108	0.880	6.0	0x0	VIFx	37.5	165.0	st3
Family RM/Dining	c 3697	139	179	0.880	7.0	0x0	VIFx	28.8	165.0	st3
Family RM/Dining-A	c 3697	139	179	0.880	7.0	0x0	VIFx	37.4	165.0	st3
Foyer	h 3725	163	99	0.880	7.0	0x0	VIFx	41.0	165.0	st3
Kitchen	c 2535	111	111	0.880	6.0	0x0	VIFx	27.8	165.0	st3
Kitchen-A	c 2535	111	111	0.880	6.0	0x0	VIFx	37.5	165.0	st3
Mstr Bathrm	h 1042	46	24	0.880	4.0	0x0	VIFx	66.7	175.0	st5
Mstr Bedroom	c 2039	95	99	0.880	6.0	0x0	VIFx	69.5	175.0	st5
Mstr Bedroom-A	c 2039	95	99	0.880	6.0	0x0	VIFx	62.8	175.0	st5
Mstr WIC	c 95	2	5	0.880	4.0	0x0	VIFx	63.3	175.0	st5

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	749	786	0.880	563	16.0	0 x 0	VinIFlx	st2 st4 st1
st2	Peak AVF	451	414	0.880	574	12.0	0 x 0	VinIFlx	
st4	Peak AVF	451	414	0.880	574	12.0	0 x 0	VinIFlx	
st5	Peak AVF	451	414	0.880	574	12.0	0 x 0	VinIFlx	
st3	Peak AVF	749	786	0.880	563	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
rb1	30x 19	1200	1200	141.0	0.880	679	18.0	0x 0		VIFx	rst7

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst7	Peak AVF	1200	1200	0.880	679	18.0	0 x 0	VinIFlx	rst9
rst8	Peak AVF	1200	1200	0.880	679	18.0	0 x 0	VinIFlx	
rst9	Peak AVF	1200	1200	0.880	679	18.0	0 x 0	VinIFlx	rst8