

Project Information

For: Anyone, Heating and Cooling
Anywhere, Jacksonville, FL

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	93	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	37	18	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	11	50		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS5BA6010A
AHRI ref 215381165

Efficiency 8.2 HSPF2

Heating input
Heating output 57000 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1900 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0.60 in H2O
Space thermostat
Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS5BA6010A
Coil AMST60DU1300A
AHRI ref 215381165

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 0.051 cfm/Btuh
Static pressure 0.60 in H2O
Load sensible heat ratio 0.69

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
WIC	89	2070	1094	118	55
DINING	104	2674	4099	153	208
M BATH	97	1500	1451	86	74
M WC	26	99	76	6	4
LIN	14	0	0	0	0
KITCHEN	174	621	3061	36	155
PANTRY	18	0	0	0	0
LIVING	540	5021	6076	287	308
M BEDROOM	207	3276	5078	187	258
BEDROOM 1	138	2789	2562	159	130
WIC1	28	1034	524	59	27
WIC2	29	612	326	35	17
BEDROOM 2	141	1788	2427	102	123
BATH1	49	163	142	9	7

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

BATH2	49	163	142	9	7
BEDROOM 3	138	1756	2408	100	122
COAT	8	0	0	0	0
LAUNDRY	64	1093	1565	63	79
STUDY	143	3687	2720	211	138
BEDROOM 4	150	3155	2822	180	143
WIC3	29	612	326	35	17
WIC4	31	1114	566	64	29
ENTRY	44	0	0	0	0
Entire House	2309	33229	34984	1900	1900
Other equip loads		6581	3929		
Equip. @ 1.00 RSM			38913		
Latent cooling			17419		
TOTALS	2309	39810	56332	1900	1900

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Notes: Anywhere, Jacksonville, FL 32222

Design Information

Weather: Jacksonville Intl, FL, US

Winter Design Conditions

Outside db 33 °F
Inside db 70 °F
Design TD 37 °F

Ventilation Method ASHRAE 62.2-2019

Heating Summary

Structure 21137 Btuh
Ducts (R-6.0) 12092 Btuh
Central vent (114 cfm) 4671 Btuh
Outside air
Humidification 1909 Btuh
Piping 0 Btuh
Equipment load 39810 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

	Heating	Cooling
Area (ft²)	2309	2309
Volume (ft³)	20780	20780
Air changes/hour	0.22	0.11
Equiv. AVF (cfm)	76	38

Heating Equipment Summary

Make Goodman Mfg.
Trade GOODMAN
Model GLZS5BA6010A
AHRI ref 215381165

Efficiency 8.2 HSPF2
Heating input
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Space thermostat
Capacity balance point = 23 °F

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

Summer Design Conditions

Outside db 93 °F
Inside db 75 °F
Design TD 18 °F
Daily range M
Relative humidity 50 %
Moisture difference 50 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 19997 Btuh
Ducts (R-6.0) 14987 Btuh
Central vent (114 cfm) 2223 Btuh
Outside air
Blower 1706 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 38913 Btuh

Latent Cooling Equipment Load Sizing

Structure 10090 Btuh
Ducts 3462 Btuh
Central vent (114 cfm) 3868 Btuh
Outside air
Equipment latent load 17419 Btuh

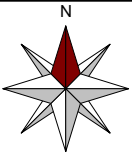
Equipment Total Load (Sen+Lat) 56332 Btuh
Req. total capacity at 0.70 SHR 4.6 ton

Cooling Equipment Summary

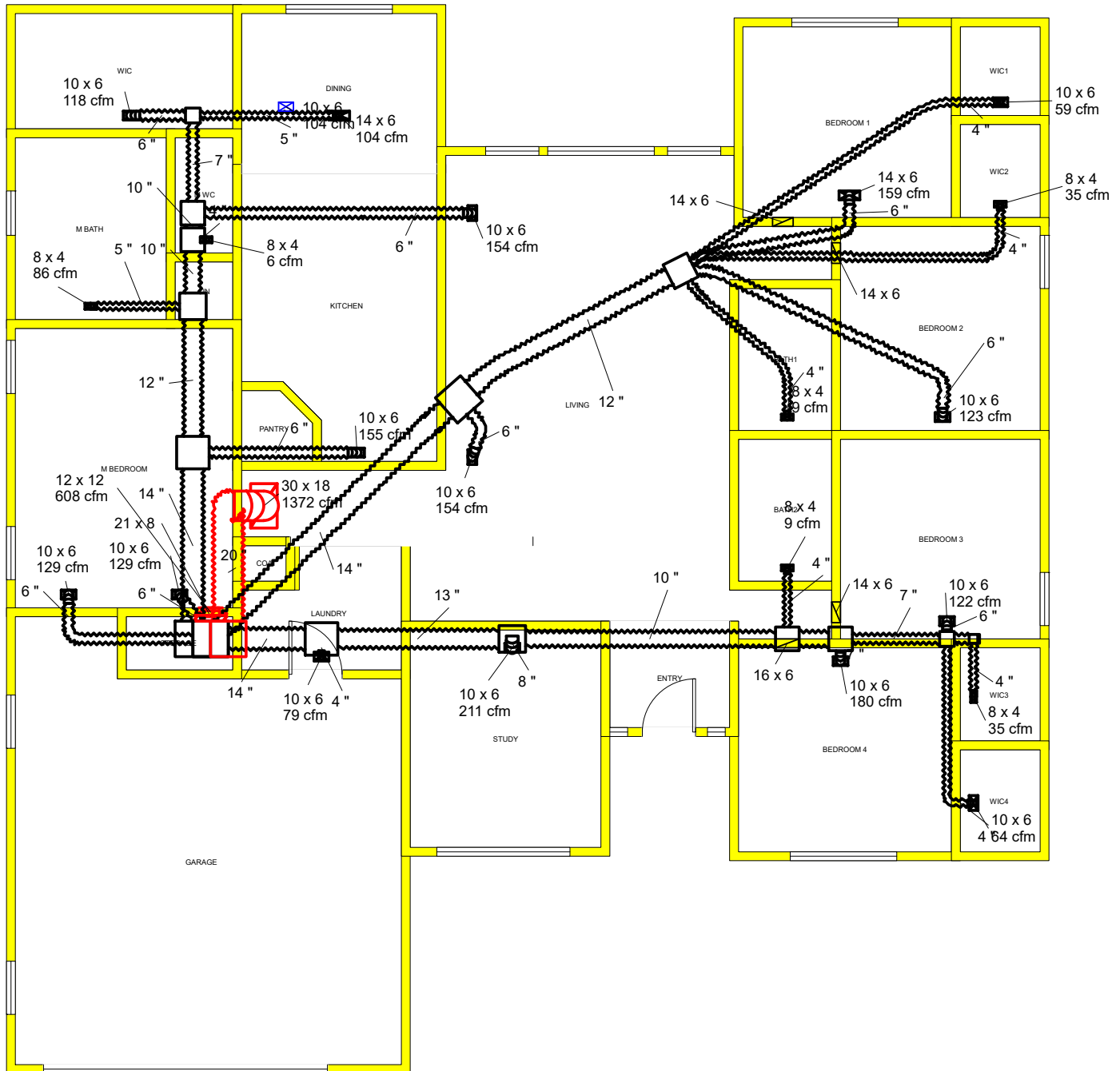
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Air flow factor 0.051 cfm/Btuh
Static pressure 0.60 in H2O
Load sensible heat ratio 0.69

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Main Floor



Job #: Anywhere
Performed by Craig C Brooks for:
Anyone
Anywhere
Jacksonville, FL

WebReps LLC.
1880 82nd Avenue Suite # 203
Vero Beach, FL 32966
Phone: 800-810-3280 Fax: 888 971 2999
manualj@webrepsusa.com

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Duct System Summary

Entire House

WebReps LLC.

Job: Anywhere
Date:
By: Craig C Brooks
Plan: Anywhere

1880 82nd Avenue Suite # 203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888 971 2999 Email: manualj@webrepsusa.com

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	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.24 in H2O	0.24 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.281 / 0.079 in H2O	0.281 / 0.079 in H2O
Lowest friction rate	0.058 in/100ft	0.058 in/100ft
Actual air flow	1900 cfm	1900 cfm
Total effective length (TEL)	618 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
BATH1	h 163	9	7	0.117	4.0	0x0	VIFx	44.9	195.0	st4
BATH2	h 163	9	7	0.085	4.0	0x0	VIFx	36.5	295.0	st3B
BEDROOM 1	h 2789	159	130	0.117	6.0	0x0	VIFx	45.9	195.0	st4
BEDROOM 2	c 2427	102	123	0.114	6.0	0x0	VIFx	52.4	195.0	st4
BEDROOM 3	c 2408	100	122	0.060	6.0	0x0	VIFx	42.5	425.0	st3C
BEDROOM 4	h 3155	180	143	0.072	7.0	0x0	VIFx	36.8	355.0	st3B
DINING	c 2049	76	104	0.059	5.0	0x0	VIFx	37.8	435.0	st1D
DINING-A	c 2049	76	104	0	0	0x0	VIFx	0	0	
KITCHEN	c 3061	36	155	0.161	6.0	0x0	VIFx	19.8	155.0	st1
LAUNDRY	c 1565	63	79	0.173	4.0	0x0	VIFx	7.2	155.0	st3
LIVING	c 3038	144	154	0.069	6.0	0x0	VIFx	39.8	370.0	st1C
LIVING-B	c 3038	144	154	0.189	6.0	0x0	VIFx	23.3	125.0	st2
M BATH	h 1500	86	74	0.113	5.0	0x0	VIFx	24.5	225.0	st1A
M BEDROOM	c 2539	94	129	0.254	6.0	0x0	VIFx	10.5	100.0	
M BEDROOM-A	c 2539	94	129	0.287	6.0	0x0	VIFx	3.1	95.0	
M WC	h 99	6	4	0.088	4.0	0x0	VIFx	23.2	295.0	st1B
STUDY	h 3687	211	138	0.116	8.0	0x0	VIFx	17.5	225.0	st3A
WIC	h 2070	118	55	0.060	6.0	0x0	VIFx	33.0	435.0	st1D
WIC1	h 1034	59	27	0.112	4.0	0x0	VIFx	54.9	195.0	st4
WIC2	h 612	35	17	0.112	4.0	0x0	VIFx	55.2	195.0	st4
WIC3	h 612	35	17	0.058	4.0	0x0	VIFx	46.2	435.0	st3C
WIC4	h 1114	64	29	0.058	4.0	0x0	VIFx	52.2	430.0	st3C

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1D	PeakAVF	195	159	0.059	729	7.0	0 x 0	VinlFlx	st1C
st1C	PeakAVF	338	313	0.059	620	10.0	0 x 0	VinlFlx	st1B
st2	PeakAVF	509	457	0.112	476	14.0	0 x 0	VinlFlx	
st4	PeakAVF	365	303	0.112	465	12.0	0 x 0	VinlFlx	st2
st1	PeakAVF	465	546	0.059	511	14.0	0 x 0	VinlFlx	
st1A	PeakAVF	430	391	0.059	547	12.0	0 x 0	VinlFlx	st1
st1B	PeakAVF	344	317	0.059	631	10.0	0 x 0	VinlFlx	st1A
st3B	PeakAVF	389	318	0.058	713	10.0	0 x 0	VinlFlx	st3A
st3C	PeakAVF	199	167	0.058	745	7.0	0 x 0	VinlFlx	st3B
st3A	PeakAVF	600	456	0.058	651	13.0	0 x 0	VinlFlx	st3
st3	PeakAVF	662	535	0.058	619	14.0	0 x 0	VinlFlx	

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	0x0	1292	1372	74.5	0.106	629	20.0	0x 0		VIFx	
rb2	0x0	608	528	135.5	0.058	521	14.7	8x 21		VIFx	