

Project Information

For: Flynn House
188 SW River Rise Ct, Ft. White, FL 32038

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	93	Method	Average
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	18	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	46		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GSZ140301K*
AHRI ref 201641666
Efficiency 8.5 HSPF
Heating input 28000 Btuh @ 47°F
Heating output 0 °F
Temperature rise 0 cfm
Actual air flow 0 cfm/Btuh
Air flow factor 0.50 in H2O
Static pressure
Space thermostat
Capacity balance point = 26 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GSZ140301K*
Coil CM30C34++TDR
AHRI ref 201641666
Efficiency 11.1 EER, 14 SEER
Sensible cooling 18620 Btuh
Latent cooling 7980 Btuh
Total cooling 26600 Btuh
Actual air flow 887 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.80

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
ac	14	0	0	0	0
Living	581	11092	10375	0	477
half	35	621	313	0	14
bath	83	2060	668	0	31
wic	77	2101	1096	0	50
bd	235	3706	6816	0	314



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

Entire House	1024	19581	19268	0	887
Other equip loads		0	0		
Equip. @ 1.00 RSM			19268		
Latent cooling			4762		
TOTALS	1024	19581	24030	0	887

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

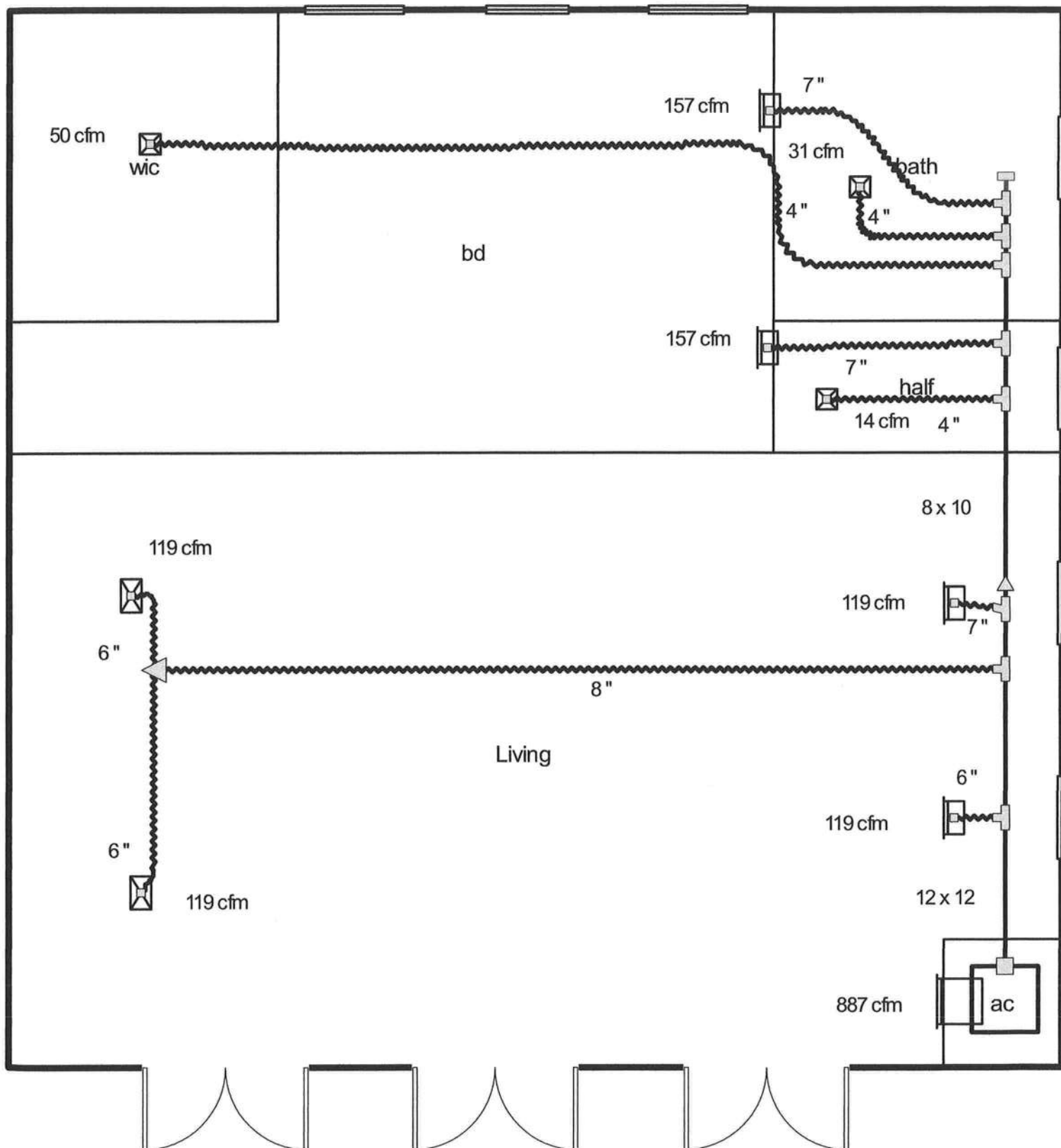


Right-Suite® Universal 2019 19.0.15 RSU07253

...lgh Springs Electric Flynn Pool House Flynnrup Calc = MJ8 Front Door faces: W

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Page 2





Manual S Compliance Report
Entire House
High Springs Electric

Job:
Date: Aug 16, 2021
By: Donna Brackeen

Project Information

For: Flynn House
188 SW River Rise Ct, Ft. White, FL 32038

Cooling Equipment

Design Conditions

Outdoor design DB:	93.4°F	Sensible gain:	19268	Btuh	Entering coil DB:	75.1°F
Outdoor design WB:	76.4°F	Latent gain:	4762	Btuh	Entering coil WB:	62.8°F
Indoor design DB:	75.0°F	Total gain:	24030	Btuh		
Indoor RH:	50%	Estimated airflow:	887	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZ140301K*+CM30C34++TDR
Actual airflow:	887	cfm	
Sensible capacity:	18620	Btuh	97% of load
Latent capacity:	7980	Btuh	168% of load
Total capacity:	26600	Btuh	111% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	19581	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZ140301K*+CM30C34++TDR
Actual airflow:	0	cfm	
Output capacity:	28000	Btuh	143% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	26	°F	
Economic balance:	-99	°F	

Meets all requirements of ACCA Manual S.





Duct System Summary

Entire House

High Springs Electric

Job:
Date: Aug 16, 2021
By: Donna Brackeen

Project Information

For: Flynn House
188 SW River Rise Ct, Ft. White, FL 32038

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.32 in H2O	0.32 in H2O
Supply / return available pressure	0.160 / 0.160 in H2O	0.160 / 0.160 in H2O
Lowest friction rate	0.141 in/100ft	0.141 in/100ft
Actual air flow	0 cfm	887 cfm
Total effective length (TEL)	227 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
Living	c 2594	0	119	0.199	6.0	0x0	VIFx	6.1	155.0	st1
Living-A	c 2594	0	119	0.141	6.0	0x0	VIFx	41.8	185.0	st2
Living-B	c 2594	0	119	0.251	7.0	0x0	VIFx	12.4	115.0	st1
Living-C	c 2594	0	119	0.144	6.0	0x0	VIFx	37.9	185.0	st2
bath	c 668	0	31	0.190	4.0	0x0	VIFx	28.1	140.0	st1A
bd	c 3408	0	157	0.177	7.0	0x0	VIFx	26.1	155.0	st1A
bd-A	c 3408	0	157	0.192	7.0	0x0	VIFx	31.7	135.0	st1A
half	c 313	0	14	0.175	4.0	0x0	VIFx	22.6	160.0	st1A
wic	c 1096	0	50	0.152	4.0	0x0	VIFx	50.9	160.0	st1A

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1A	Peak AVF	0	409	0.152	737	12.6	10 x 8	RectFbg	st1
st1	Peak AVF	0	887	0.141	887	12.6	12 x 12	RectFbg	st1
st2	Peak AVF	0	239	0.141	684	8.0	0 x 0	VinIFlx	st1

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	0	887	0	0	0	0	0x 0		VIFx	