



Manual S Compliance Report

Entire House

Comfort Temp Company

Job:
Date: Feb 07, 2020
By:

31

4301 NW 6th ST, Gainesville, FL 32609 Phone: 352 275 4022 Fax: 352 376 0523 Email: jay@comforttemp.com Web: www.comforttemp.com

Project Information

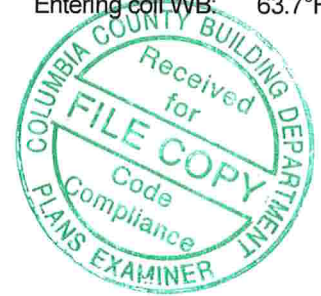
For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	32925	Btuh
Outdoor design WB:	76.3°F	Latent gain:	5217	Btuh
Indoor design DB:	75.0°F	Total gain:	38142	Btuh
Indoor RH:	50%	Estimated airflow:	1550	cfm

Entering coil DB: 77.4°F
Entering coil WB: 63.7°F



Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	4TWR4048G1+TEM4A0C48S41++TDR
Manufacturer:	Trane		
Actual airflow:	1550 cfm		
Sensible capacity:	37492 Btuh	114% of load	
Latent capacity:	6957 Btuh	133% of load	
Total capacity:	44448 Btuh	117% of load	SHR: 84%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	31095	Btuh
Indoor design DB:	68.0°F			

Entering coil DB: 66.9°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	4TWR4048G1+TEM4A0C48S41++TDR
Manufacturer:	Trane		
Actual airflow:	1550 cfm		
Output capacity:	36011 Btuh	116% of load	
Supplemental heat required:	0 Btuh		

Capacity balance: 23 °F
Economic balance: -99 °F

Backup equipment type:	Elec strip	Model:	
Manufacturer:			
Actual airflow:	1550 cfm		
Output capacity:	6.0 kW	65% of load	Temp. rise: 50 °F

Meets all requirements of ACCA Manual S.

Project Information

For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

Heating Summary

Structure	21131 Btuh
Ducts	9964 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	31095 Btuh

Sensible Cooling Equipment Load Sizing

Structure	20559 Btuh
Ducts	12366 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	31937 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	2515 Btuh
Ducts	2702 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	5217 Btuh

	Heating	Cooling
Area (ft²)	2282	2282
Volume (ft³)	20067	20067
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	107	54

Equipment Total Load (Sen+Lat)	37154 Btuh
Req. total capacity at 0.75 SHR	3.5 ton

Heating Equipment Summary

Make	Trane
Trade	TRANE
Model	4TWR4048G1
AHRI ref	8908430
Efficiency	8.5 HSPF
Heating input	
Heating output	46500 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1550 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 23 °F	

Cooling Equipment Summary

Make	Trane
Trade	TRANE
Cond	4TWR4048G1
Coil	TEM4A0C48S41++TDR
AHRI ref	8908430
Efficiency	11.5 EER, 14 SEER
Sensible cooling	34875 Btuh
Latent cooling	11625 Btuh
Total cooling	46500 Btuh
Actual air flow	1550 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.86

Backup:
Input = 6 kW, Output = 20320 Btuh, 100 AFUE

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

Project Information

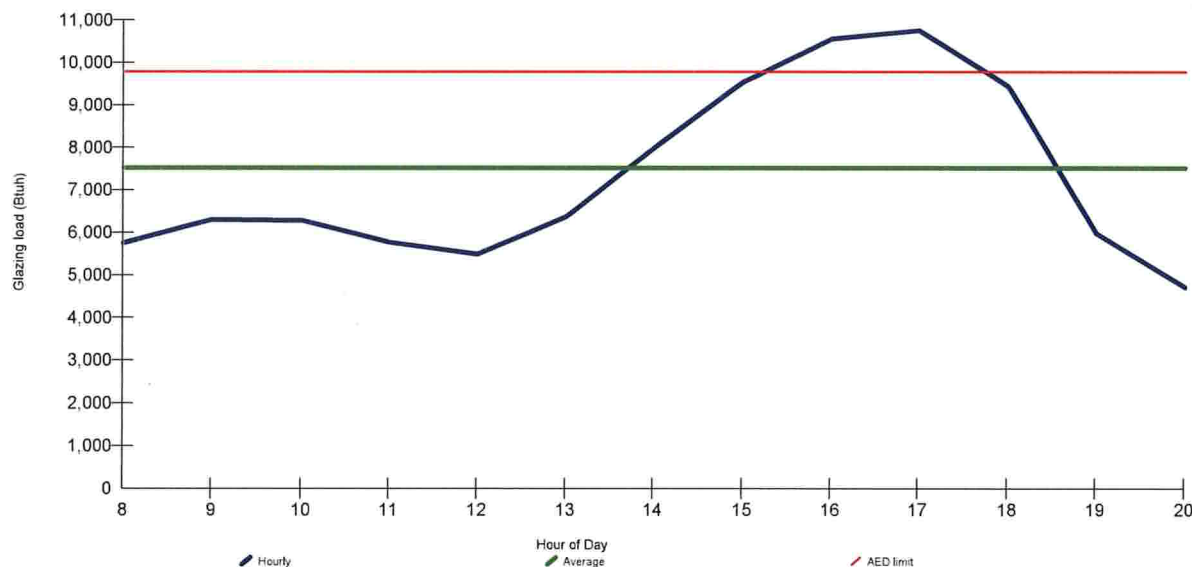
For: Devon Johnson
 Parcel # 11-6S-16-03815-165, Fort White, FL

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville Regional AP, FL, US		Indoor temperature (°F)		68	75
Elevation: 164 ft		Design TD (°F)		35	17
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		28.7	47.4
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)		33	92		
Daily range (°F)		-	18 (M)		
Wet bulb (°F)		-	76		
Wind speed (mph)		15.0	7.5		

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 43.1%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 985 Btuh (PFG - 1.3*AFG)

Right-J® Worksheet

Entire House

Comfort Temp Company

Job:
Date: Feb 07, 2020
By:

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1	Room name					Entire House				Bedroom #2				
2	Exposed wall					180.0 ft				31.0 ft				
3	Room height					8.8 ft				9.0 ft				
4	Room dimensions					d				1.0 x 195.0 ft				
5	Room area					2282.0 ft²				195.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.15	2.22	284	284	894	629	0	0	0	0
11	W	12B-0sw	0.097	e	3.36	2.61	63	48	161	125	0	0	0	0
	G	4A5-2ob	0.560	e	19.38	38.55	15	0	291	578	0	0	0	0
		12C-0sw	0.091	e	3.15	2.22	301	241	759	534	0	0	0	0
	G	4A5-2ob	0.560	e	19.38	38.55	60	0	1163	2313	0	0	0	0
		12B-0sw	0.097	s	3.36	2.61	315	315	1057	823	144	144	483	376
	W	12C-0sw	0.091	s	3.15	2.22	96	96	302	213	0	0	0	0
	W	12B-0sw	0.097	w	3.36	2.61	135	105	352	274	135	105	352	274
	G	4A5-2ob	0.560	w	19.38	38.55	30	0	581	1157	30	0	581	1157
		12C-0sw	0.091	w	3.15	2.22	384	284	894	629	0	0	0	0
	G	4A5-2ob	0.560	w	19.38	38.55	60	0	1163	2313	0	0	0	0
		4A5-2obd	0.560	w	19.38	45.03	40	0	779	1810	0	0	0	0
C	16B-30ad	0.032	-	1.11	1.69	2282	2282	2527	3859	195	195	216	330	
F	22A-tpi	0.989	-	34.22	0.00	2282	180	6159	0	195	31	1061	0	
6	c) AED excursion								985				268	
	Envelope loss/gain							17082	16244			2694	2405	
12	a) Infiltration							4049	995			716	176	
	b) Room ventilation							0	0			0	0	
13	Internal gains: Occupants @ Appliances/other 230					4			920	2400	0			0
	Subtotal (lines 6 to 13)							21131	20559			3410	2831	
14	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
	Subtotal							21131	20559			3410	2831	
15	Duct loads					47%	60%	9964	12366	47%	60%	1608	1703	
	Total room load							31095	32925			5017	4534	
	Air required (cfm)							1550	1550			250	213	

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1	Room name					Hall Bath					Bedroom3					
2	Exposed wall					0 ft					26.0 ft					
3	Room height					9.0 ft					9.0 ft					
4	Room dimensions					6.0 x 11.0 ft					1.0 x 192.0 ft					
5	Room area					66.0 ft²					192.0 ft²					
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)			
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool		
6	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0		
11	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	63	48	161	125		
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	15	0	291	578		
	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	0	0	0	0		
	G	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0		
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	171	171	574	447		
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0		
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0		
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0		
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0		
	G	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0		
	G	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0		
C	16B-30ad	0.032	-	1.11	1.69	66	66	73	112	192	192	213	325			
F	22A-lpl	0.989	-	34.22	0.00	66	0	0	0	192	26	890	0			
6	c) AED excursion								-13				-23			
	Envelope loss/gain								73	99			2128	1452		
12	a) Infiltration								0	0			600	148		
	b) Room ventilation								0	0			0	0		
13	Internal gains: Occupants @ 230						0			0	0			0	0	
	Appliances/other									0				0	0	
	Subtotal (lines 6 to 13)								73	99			2728	1600		
14	Less external load								0	0			0	0		
	Less transfer								0	0			0	0		
	Redistribution								0	0			0	0		
	Subtotal								73	99			2728	1600		
15	Duct loads						47%	60%	34	59		47%	60%	1287	962	
	Total room load								108	158			4015	2562		
	Air required (cfm)								5	7			200	121		

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1	Room name					Bedroom 4					WIC 4				
2	Exposed wall					30.0 ft					0 ft				
3	Room height					8.0 ft 14.0 x 12.0 ft heat/cool					8.0 ft 7.0 x 6.0 ft heat/cool				
4	Room dimensions					168.0 ft²					42.0 ft²				
5	Room area														
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	32	32	101	71	0	0	0	0	
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	112	82	258	182	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	30	0	581	1157	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	96	96	302	213	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.11	1.69	168	168	186	284	42	42	47	71	
	F	22A-tpi	0.989	-	34.22	0.00	168	30	1027	0	42	0	0	0	

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Right-J® Worksheet

Entire House

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1	Room name					Family Room				Breakfast				
2	Exposed wall					24.0 ft				12.0 ft				
3	Room height					9.0 ft				8.0 ft				
4	Room dimensions					1.0 x 627.0 ft				12.0 x 13.0 ft				
5	Room area					627.0 ft²				156.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6 . . . 11	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0
	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.15	2.22	81	81	255	179	0	0	0	0
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.15	2.22	135	95	298	210	96	66	208	146
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	30	0	581	1157
	W	4A5-2obd	0.560	w	19.38	45.03	40	0	779	1810	0	0	0	0
	C	16B-30ad	0.032	-	1.11	1.69	627	627	694	1060	156	156	173	264
	F	22A-tpl	0.989	-	34.22	0.00	627	24	821	0	156	12	411	0
	6	c) AED excursion								185				376
	Envelope loss/gain							2848	3445			1372	1943	
12	a) Infiltration							554	136			246	61	
	b) Room ventilation							0	0			0	0	
13	Internal gains: Occupants @ Appliances/other 230					2			460 900	0			0 0	
	Subtotal (lines 6 to 13)							3402	4941			1619	2003	
14 15	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
	Subtotal							3402	4941			1619	2003	
	Duct loads					47%	60%	1604	2972	47%	60%	763	1205	
	Total room load								5006	7913			2382	3208
	Air required (cfm)								250	373			119	151

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1	Room name					Kitch					Dining					
2	Exposed wall					0 ft					12.0 ft					
3	Room height					9.0 ft					9.0 ft					
4	Room dimensions					12.0 x 16.0 ft					12.0 x 14.0 ft					
5	Room area					192.0 ft²					168.0 ft²					
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)			
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool		
6	W	12C-0sw	0.091	n	3.15	2.22	0	0	0	0	0	0	0	0		
11	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0		
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0		
	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	108	78	246	173		
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	30	0	581	1157		
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0		
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0		
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0		
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0		
	W	12C-0sw	0.091	w	3.15	2.22	0	0	0	0	0	0	0	0		
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0		
	W	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0		
C	16B-30ad	0.032	-	1.11	1.69	192	192	213	325	168	168	186	284			
F	22A-tpi	0.989	-	34.22	0.00	192	0	0	0	168	12	411	0			
6	c) AED excursion									-153				134		
	Envelope loss/gain									213	171			1424	1748	
12	a) Infiltration									0	0			277	68	
	b) Room ventilation									0	0			0	0	
13	Internal gains: Occupants @ 230							0			0	0			0	0
	Appliances/other										1000			0	0	
	Subtotal (lines 6 to 13)									213	1171			1701	1816	
14	Less external load									0	0			0	0	
	Less transfer									0	0			0	0	
	Redistribution									0	0			0	0	
	Subtotal									213	1171			1701	1816	
15	Duct loads							47%	60%	100	705	47%	60%	802	1092	
	Total room load									313	1876			2503	2908	
	Air required (cfm)									16	88			125	137	

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1	Room name					Master 30.0 ft					Mstr Bath 15.0 ft				
2	Exposed wall					9.0 ft 17.0 x 13.0 ft heat/cool					9.0 ft 10.0 x 15.0 ft heat/cool				
3	Room height					221.0 ft²					150.0 ft²				
4	Room dimensions														
5	Room area														
	Ty	Construction number	U-value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	3.15	2.22	117	117	368	259	135	135	425	299	
11	W	12B-0sw	0.097	e	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.15	2.22	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	e	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	s	3.36	2.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.15	2.22	0	0	0	0	0	0	0	0	
	W	12B-0sw	0.097	w	3.36	2.61	0	0	0	0	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.15	2.22	153	123	387	273	0	0	0	0	
	W	4A5-2ob	0.560	w	19.38	38.55	30	0	581	1157	0	0	0	0	
	W	4A5-2obd	0.560	w	19.38	45.03	0	0	0	0	0	0	0	0	
C	16B-30ad	0.032	-	1.11	1.69	221	221	245	374	150	150	166	254		
F	22A-tpl	0.989	-	34.22	0.00	221	30	1027	0	150	15	513	0		
6	c) AED excursion								224				-74		
	Envelope loss/gain							2608	2286			1104	479		
12	a) Infiltration							693	170			346	85		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230 Appliances/other					2			460 250	0			0 0		
	Subtotal (lines 6 to 13)							3301	3166			1451	564		
14	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							0	0			0	0		
	Subtotal							3301	3166			1451	564		
15	Duct loads					47%	60%	1557	1904	47%	60%	684	339		
	Total room load							4858	5071			2135	903		
	Air required (cfm)							242	239			106	43		

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

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

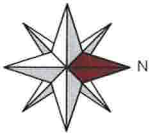


Level 2

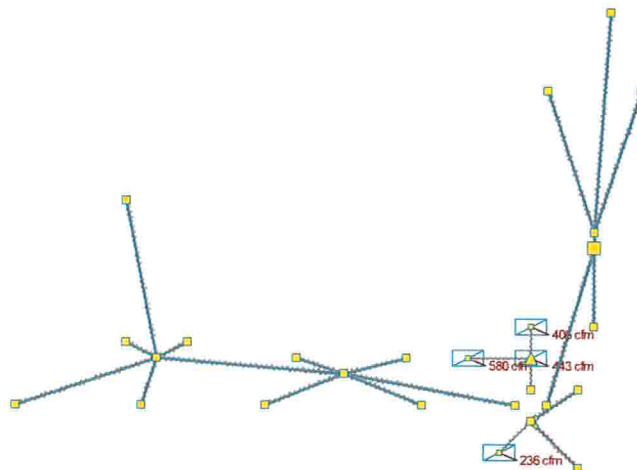
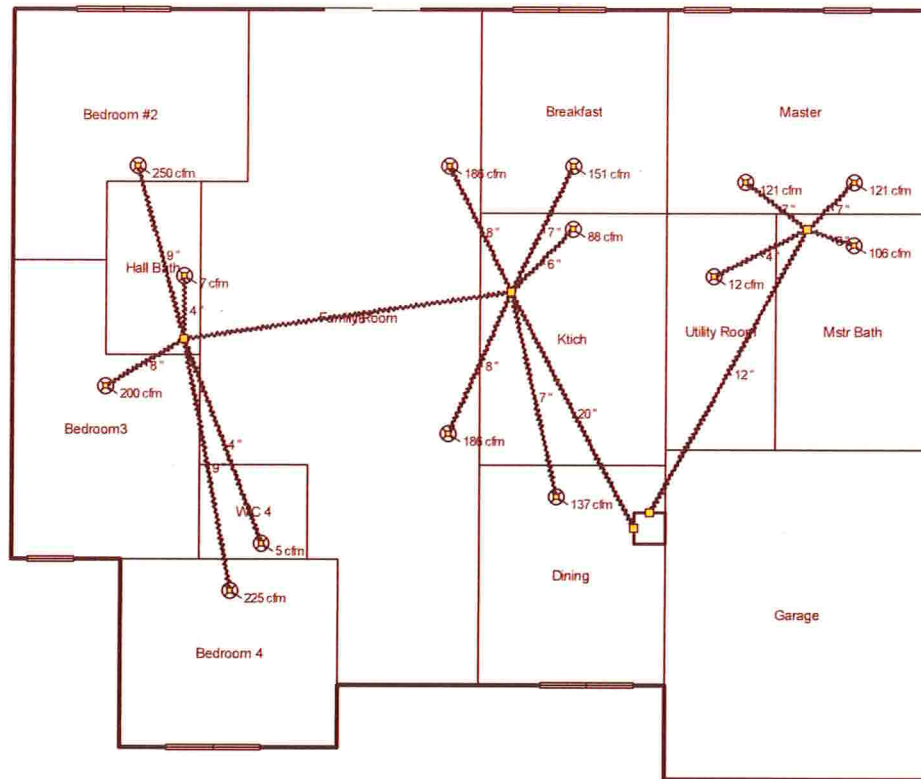
Job #:
Performed for:
Devon Johnson
Parcel # 11-6S-16-03815-165
Fort White, FL

Comfort Temp Company
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Level 1



Job #:
Performed for:
Devon Johnson
Parcel # 11-6S-16-03815-165
Fort White, FL

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Duct System Summary

Entire House

Comfort Temp Company

Job:
Date: Feb 07, 2020
By:

4301 NW 6th ST, Gainesville, FL 32609 Phone: 352 275 4022 Fax: 352 376 0523 Email: jay@comfortemp.com Web: www.comfortemp.com

Project Information

For: Devon Johnson
Parcel # 11-6S-16-03815-165, Fort White, FL

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Supply / return available pressure	0.250 / 0.250 in H ₂ O	0.250 / 0.250 in H ₂ O
Lowest friction rate	0.304 in/100ft	0.304 in/100ft
Actual air flow	1550 cfm	1550 cfm
Total effective length (TEL)	164 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
Bedroom #2	h 5017	250	213	0.313	9.0	0x0	VIFx	49.6	110.0	st3
Bedroom 4	h 4519	225	162	0.304	9.0	0x0	VIFx	54.5	110.0	st3
Bedroom3-A	h 4015	200	121	0.325	8.0	0x0	VIFx	44.0	110.0	st3
Breakfast	c 3208	119	151	0.431	7.0	0x0	VIFx	25.9	90.0	st2
Dining	c 2908	125	137	0.415	7.0	0x0	VIFx	30.3	90.0	st2
Family Room	c 3956	125	186	0.431	8.0	0x0	VIFx	25.9	90.0	st2
Family Room-A	c 3956	125	186	0.428	8.0	0x0	VIFx	26.8	90.0	st2
Hall Bath	c 158	5	7	0.328	4.0	0x0	VIFx	42.2	110.0	st3
Kitch	c 1876	16	88	0.444	6.0	0x0	VIFx	22.7	90.0	st2
Master	h 2429	121	119	0.433	7.0	0x0	VIFx	25.6	90.0	st1
Master-A	h 2429	121	119	0.435	7.0	0x0	VIFx	24.8	90.0	st1
Mstr Bath	h 2135	106	43	0.440	6.0	0x0	VIFx	23.8	90.0	st1
Utility Room	c 251	9	12	0.426	4.0	0x0	VIFx	27.3	90.0	st1
WIC 4	c 101	3	5	0.308	4.0	0x0	VIFx	52.1	110.0	st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	684	508	0.304	490	16.0	0 x 0	VinIFlx	st2
st2	Peak AVF	1193	1257	0.304	576	20.0	0 x 0	VinIFlx	
st1	Peak AVF	357	293	0.426	455	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
rb16	0x 0	236	174	0	0	0	0	0x 0		VIFx	
rb11	0x 0	371	443	0	0	0	0	0x 0		VIFx	
rb13	0x 0	363	406	0	0	0	0	0x 0		VIFx	
rb15	0x 0	580	528	0	0	0	0	0x 0		VIFx	