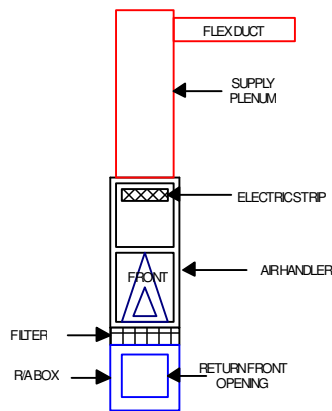


Notes

CITED NOTES	
①	
②	RANGE EXHAUST DUCT SIZE AS PER MANF. REQ. 3.25 X 10 DUCT, C/W WALL HOOD AND BACKDRAFT DAMPER (FOR ELECTRIC RANGE)
③	LAUNDRY ROOM COMBUSTION AIR FOR OPTIONAL GAS DRYER, SEE LOCAL CODES AND MANF. SPEC TO VERIFY
④	4" OR 6" VENT TO OUTSIDE, C/W BACKDRAFT DAMPER AND HOOD (ROOF)
⑤	4" OR 6" VENT TO OUTSIDE, C/W BACKDRAFT DAMPER AND HOOD (WALL)
GENERAL NOTES	
VERIFY NO STRUCTURAL INTERFERENCE BEFORE CUTTING OPENING FOR TRANSFER GRILLE ABOVE DOOR	
THERMOSTAT HEIGHT OF 60" TO THE TOP. WHEN A DESIGN MUST MEET ADA REQUIREMENTS, THERMOSTAT HEIGHT SHALL BE SPECIFIED AT 48" TO THE TOP.	



Carrier
25HBC524AP0300
FB4CNP025L
Elec strip Carrier KFCEH2501C08
FILTER TYPE: FLANDERS PRE PLEATED 40 LPD MERV 8 FILTER THICKNESS: 1" FILTER PRESSURE DROP: 0.15 IWC
FB4C CORRECTION COMPONENT PRESSURE DROP (DRY TO WET COIL): 0.052 IWC @ 835 CFM
FAN SPEED TAP: 5



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PX2707

11/06/2021

Job #: Performed for:

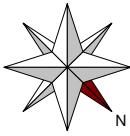
Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH
SW Jewel Lake Drive
Lake City, FL 32024

MiTek Wrightsoft

131 Hartwell Ave
Lexington, MA 02421
Phone: 800-225-8697 Fax: 781-861-2058
www.wrightsoft.com

Scale: 1 : 100

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MITEK-WRIGHTSOFT DESIGN DETAIL SUMMARY

MITEK'S RESPONSIBILITY IS SOLELY FOR DESIGN OF THE HVAC SYSTEM BASED UPON THE DESIGN INFORMATION AND CONDITIONS PROVIDED TO IT THAT ARE SPECIFIED IN THE DRAWING AND ACCOMPANYING ACCA MANUAL J, S, D AND T REPORTS. THE HVAC DESIGN IS BASED ONLY UPON THE DESIGN INFORMATION AND CONDITIONS SHOWN, WHICH HAVE NOT BEEN VERIFIED BY THE MITEK-WRIGHTSOFT DESIGN TEAM.

BEFORE USE, THE BUILDING DESIGNER MUST VERIFY THE APPLICABILITY OF THE DESIGN INFORMATION AND CONDITIONS, AND PROPERLY INCORPORATE THIS HVAC DESIGN INTO THE OVERALL BUILDING DESIGN. THE HVAC DESIGN SHOWN IS ONLY VALID FOR THE BUILDING LAYOUT, ELEVATIONS, ORIENTATION, INTERIOR FLOOR PLAN, CONSTRUCTION MATERIALS, EQUIPMENT, AND WEATHER BIN DATA SPECIFIED IN THE DRAWING.

ANY CHANGE TO THE DESIGN INFORMATION AND CONDITIONS, OR DEVIATION FROM THIS DESIGN WILL REQUIRE AN UPDATED HVAC DESIGN. MITEK TAKES NO RESPONSIBILITY FOR DEVIATIONS FROM ITS HVAC DESIGN, USE OF ITS DESIGNS FOR PURPOSE OTHER THAN AS INTENDED BY MITEK-WRIGHTSOFT, OR FOR THE IMPROPER CONSTRUCTION OR INSTALLATION OF HVAC SYSTEMS BASED ON ITS DESIGNS.

MITEK IS NOT RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM OR THE PERFORMANCE OF EQUIPMENT REFERENCED IN THE HVAC DESIGN. THE HVAC DESIGNS ASSUME FABRICATION AND INSTALLATION BY A CERTIFIED HVAC CONTRACTOR IN STRICT CONFORMANCE WITH HVAC DESIGNS AND THE GUIDELINES PUBLISHED BY ACCA RESIDENTIAL QUALITY INSTALLATION CHECKLIST. FOR GENERAL GUIDANCE REGARDING THE INSTALLATION AND TESTING OF THE HVAC SYSTEM(S), PLEASE SEE ACCA MANUAL D, ACCA MANUAL B, IBC, IMC, AND IRC.



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Job #:
Performed for:

Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH
SW Jewel Lake Drive
Lake City, FL 32024

MiTek Wrightsoft

131 Hartwell Ave
Lexington, MA 02421
Phone: 800-225-8697 Fax: 781-861-2058
www.wrightsoft.com

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2021-Oct-15 11:15:30
...Jewel Lake P2_FrmA1_LS01_RH.rup

Project Information

For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Blower door
Inside db (°F)	70	75	Shielding / stories	4 (substantial) / 1
Design TD (°F)	37	17	Pressure / AVF	50 Pa / 1299 cfm
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	11	45		

HEATING EQUIPMENT

Make Carrier
Trade CARRIER
Model 25HBC524AP0300
AHRI ref 204837248

Efficiency 9 HSPF
Heating input
Heating output 24000 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0.40 in H2O
Space thermostat
Capacity balance point = 34 °F

Backup: Carrier KFCEH2501C08
Input = 8 kW, Output = 27297 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Carrier
Trade CARRIER
Cond 25HBC524AP0300
Coil FB4CNP025L
AHRI ref 204837248

Efficiency 12.5 EER, 15.5 SEER
Sensible cooling 18845 Btuh
Latent cooling 3589 Btuh
Total cooling 22434 Btuh
Actual air flow 835 cfm
Air flow factor 0.047 cfm/Btuh
Static pressure 0.40 in H2O
Load sensible heat ratio 0.84

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BEDROOM 3	140	4573	2855	0	134
BATH 2	54	1319	486	0	23
BEDROOM 4	152	2605	1983	0	93
HVAC	26	0	0	0	0
LAU	58	795	888	0	42
O. BATH	78	1434	501	0	24
O.WIC	57	87	129	0	6
OWNER'S SUITE	210	3697	3165	0	149
GREAT/DIN/KIT	495	6974	5818	0	273
FOYER	110	0	0	0	0
BEDROOM 2	140	2083	1968	0	92
HALL	89	0	0	0	0



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11/06/2021

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

System1	1607	23568	17793	0	835
Other equip loads		0	0		
Equip. @ 1.00 RSM			17793		
Latent cooling			3505		
TOTALS	1607	23568	21298	0	835



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A Mittek® / Berkshire Hathaway Company

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...SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH.rup Calc = MJ8 Front Door faces: NE

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Project Information

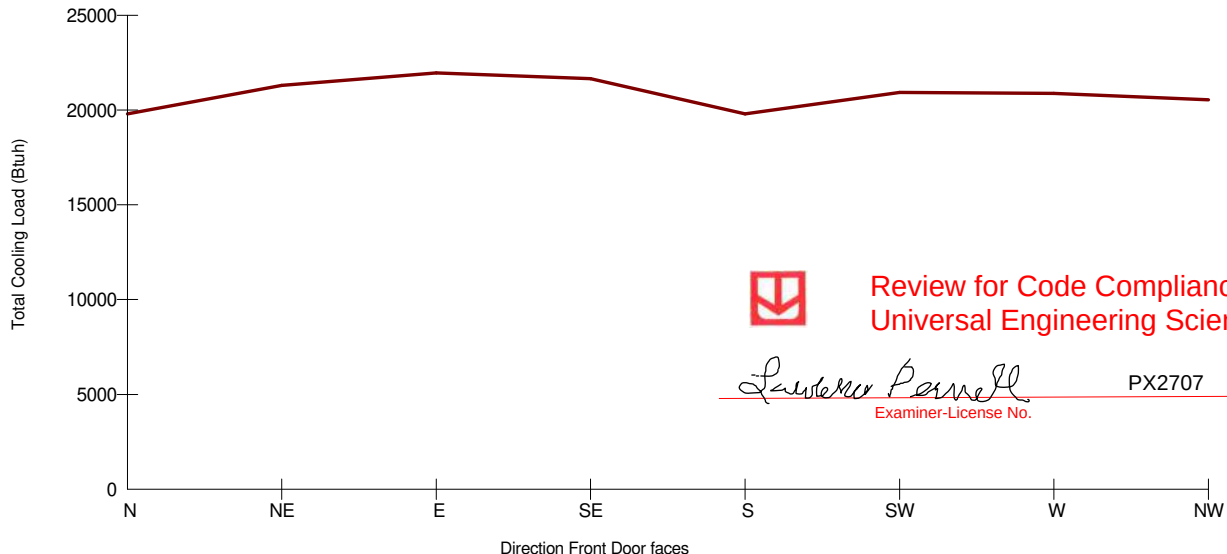
For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville Regional AP, FL, US		Indoor temperature (°F)		70	75
Elevation:	164 ft	Design TD (°F)		37	17
Latitude:	30°N	Relative humidity (%)		30	50
		Moisture difference (gr/lb)		10.6	45.4
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)		33	92		
Daily range (°F)		-	20 (M)		
Wet bulb (°F)		-	76		
Wind speed (mph)		15.0	7.5		

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	16299	17793	18438	18145	16292	17436	17371	17020
Latent Load (Btuh)	3505	3505	3505	3505	3505	3505	3505	3505
Total Load (Btuh)	19804	21298	21943	21650	19797	20941	20876	20525
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	835	835	835	835	835	835	835	835

Building Orientation Cooling Load



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Current Orientation: Front Door faces Northeast
Highest Cooling Load: Front Door faces East

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

Project Information

For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Conditions

Location:

Gainesville Regional AP, FL, US
Elevation: 164 ft
Latitude: 30°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33
-
-
15.0

Cooling

92
20 (M)
76
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
30
10.6

Cooling

75
17
50
45.4

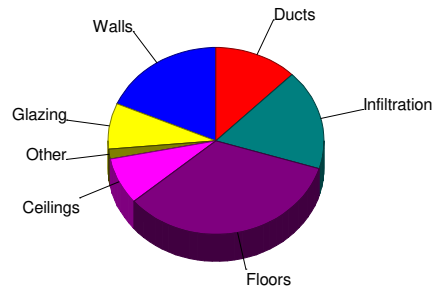
Infiltration:

Method
Shielding / stories
Pressure / AVF

Blower door
4 (substantial) / 1
50 Pa / 1299 cfm

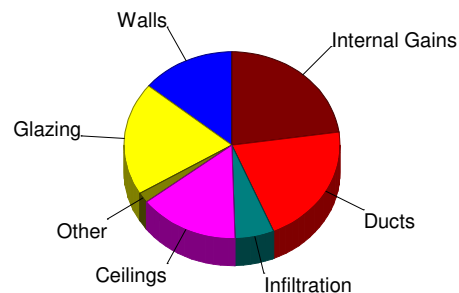
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	4351	18.5
Glazing	12.2	1872	7.9
Doors	10.7	405	1.7
Ceilings	1.2	1902	8.1
Floors	5.0	8012	34.0
Infiltration	3.5	4095	17.4
Ducts		2931	12.4
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		23568	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.9	2503	14.1
Glazing	22.7	3488	19.6
Doors	8.3	312	1.8
Ceilings	1.7	2673	15.0
Floors	0	0	0
Infiltration	0.9	1043	5.9
Ducts		3723	20.9
Ventilation		0	0
Internal gains		4050	22.8
Blower		0	0
Adjustments		0	0
Total		17793	100.0



Latent Cooling Load = 3505 Btuh
Overall U-value = 0.095 Btuh/ft²-°F

Data entries checked.



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11/06/2021

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Supporting Detail	
Project Name: CMP-FL-38-1607_Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH	Date: Oct 05, 2021
Address: SW Jewel Lake Drive, Lake City, FL 32024	
Phone:	Job ID:

Worksheet A Location and Design Conditions			
Weather Location: Gainesville Regional AP, FL, US	Elevation = 164	Latitude = 30	
Indoor Conditions, Heating: DB = 70 °F RH = 30 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %		
Table 1 Conditions 99% DB = 33 °F 1% DB = 92 °F	Grains Difference = 45 gr/lb	Daily Range = M	
Design Temperature Differences	HTD = 37 °F	CTD = 17 °F	



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Project Information

For: Covington SLAB Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville Regional AP, FL, US		Indoor temperature (°F)		70	75
Elevation:	164 ft	Design TD (°F)		37	17
Latitude:	30°N	Relative humidity (%)		30	50
Outdoor:		Moisture difference (gr/lb)		10.6	45.4
Dry bulb (°F)	33	Infiltration:			
Daily range (°F)	-	Method		Blower door	
Wet bulb (°F)	-	Shielding / stories		4 (substantial) / 1	
Wind speed (mph)	15.0	Pressure / AVF		50 Pa / 1299 cfm	
Heating		Cooling			
		(M)			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12C-0sw: Frm wall, wd ext, 1/2" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	ne	93	0.091	13.0	3.37	315	2.14	200
	se	422	0.091	13.0	3.37	1419	2.14	901
	sw	212	0.091	13.0	3.37	713	2.14	453
	nw	276	0.091	13.0	3.37	929	2.14	590
	all	1003	0.091	13.0	3.37	3376	2.14	2144

Partitions

12C-0sw: Frm wall, 1/2" gyp.bd ext, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud		289	0.091	13.0	3.37	974	1.24	358
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Windows

Century Florida Jacksonville Wnd: Window; NFRC rated (SHGC=0.29); 50% blinds 45°, medium; 50% outdoor insect screen; 1 ft overhang (5 ft window ht, 1 ft sep.); 6.67 ft head ht	ne	30	0.330	0	12.2	366	20.0	599
	se	15	0.330	0	12.2	183	19.6	294
	sw	60	0.330	0	12.2	733	19.6	1174
	nw	15	0.330	0	12.2	183	20.0	300
	all	120	0.330	0	12.2	1465	19.7	2367
Century Florida Jacksonville SGD: Door; NFRC rated (SHGC=0.29); 50% outdoor insect screen; 9 ft overhang (6.67 ft window ht, 1 ft sep.); 6.67 ft head ht	sw	33	0.330	0	12.2	407	10.5	349

Doors

11P0: Door, mtl pur core type	ne	20	0.290	10.5	10.7	215	8.26	165
	n	18	0.290	10.5	10.7	191	8.26	147
	all	38	0.290	10.5	10.7	405	8.26	312

Ceilings

16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		1607	0.032	30.0	1.18	1902	1.66	2673
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Floors

22A-1pm: Bg floor, heavy dry or light damp soil, on grade depth		84	1.180	0	43.7	8012	0	0
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Project Information

For: Covington SLAB Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

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

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	45 gr/lb

Heating Summary

Structure	20637 Btuh
Ducts	2931 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	23568 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14070 Btuh
Ducts	3723 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	17793 Btuh

Infiltration

Method	Blower door
Shielding / stories	4 (substantial) / 1
Pressure / AVF	50 Pa / 1299 cfm

Latent Cooling Equipment Load Sizing

Structure	2724 Btuh
Ducts	781 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	3505 Btuh

	Heating	Cooling
Area (ft²)	1607	1607
Volume (ft³)	12986	12986
Air changes/hour	0.47	0.26
Equiv. AVF (cfm)	101	56

Equipment Total Load (Sen+Lat)	21298 Btuh
Req. total capacity at 0.84 SHR	1.8 ton

Heating Equipment Summary

Make	Carrier
Trade	CARRIER
Model	25HBC524AP0300
AHRI ref	204837248
Efficiency	9 HSPF
Heating input	
Heating output	24000 Btuh @ 47°F
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0.40 in H2O
Space thermostat	
Capacity balance point = 34 °F	
Backup: Carrier KFCEH2501C08	
Input = 8 kW, Output = 27297 Btuh, 100 AFUE	

Cooling Equipment Summary

Make	Carrier
Trade	CARRIER
Cond	25HBC524AP0300
Coil	FB4CNP025L
AHRI ref	204837248
Efficiency	12.5 EER, 15.5 SEER
Sensible cooling	18845 Btuh
Latent cooling	3589 Btuh
Total cooling	22434 Btuh
Actual air flow	835 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.40 in H2O
load sensible heat ratio	0.84



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Signature
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Project Information

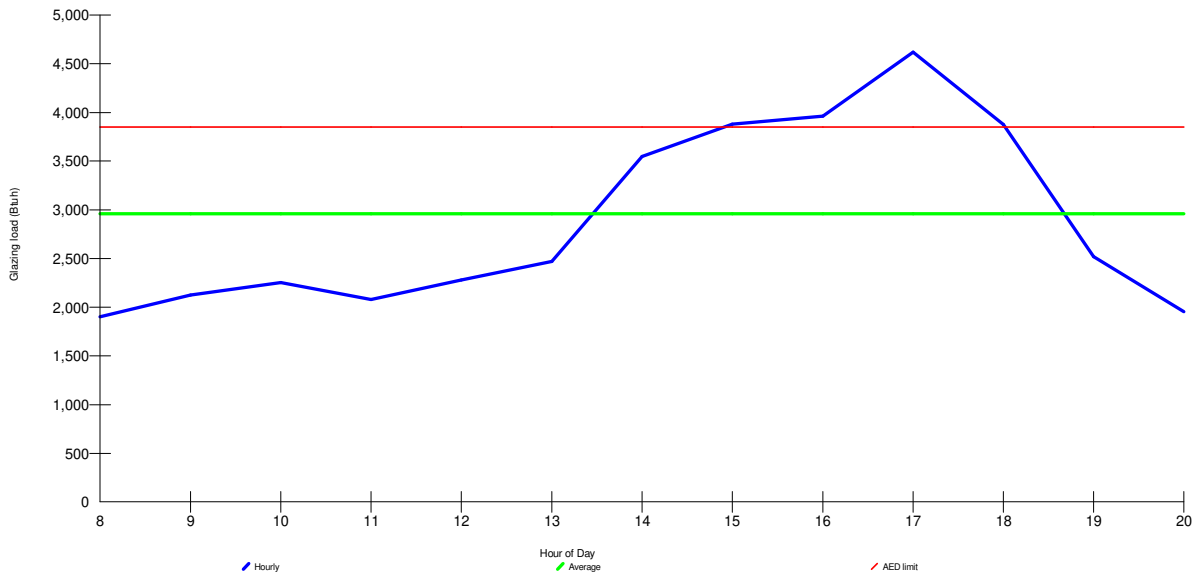
For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville Regional AP, FL, US		Indoor temperature (°F)		70	75
Elevation:	164 ft	Design TD (°F)		37	17
Latitude:	30°N	Relative humidity (%)		30	50
		Moisture difference (gr/lb)		10.6	45.4
Outdoor:		Heating	Cooling	Infiltration:	
Dry bulb (°F)	33	92	20 (M)		
Daily range (°F)	-	76			
Wet bulb (°F)	-	7.5			
Wind speed (mph)	15.0				

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 56.1%.

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

AED excursion: 773 Btuh (PFG - 1.3*AFG)



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131 Hartwell Ave, Lexington, MA 02421 Phone: 800-225-8697 Fax: 781-861-2058 Web: www.wrightsoft.com

For: Covington SLAB Reserve at Jewel Lake
 822 Jewel Lake Drive
 Lake City, FL 32024

Notes:

Src	Part #	Description	Qty	Unit price	Extension
CARR	KFCEH2501C08	Equipment 8KW,ELECT HTR,W/CIRC BRKR,1-PH,WIND SEAL	1.00	0	0
		Subtotal, Equipment			0
		Duct System Equipment			
WSF	DDVn04	Round vinyl duct, D = 4"	45.0	1.40	63.00
WSF	FBTJ-4	Ceiling rect register, size 4"	4.00	24.00	96.00
HACL	301-8X4	301 Curved-Blade Register 8 x 4	4.00	0	0
WSF	DDVn06	Round vinyl duct, D = 6"	51.0	1.60	81.60
WSF	FBTJ-6	Ceiling rect register, size 6"	5.00	26.80	134.00
HACL	301-10X6	301 Curved-Blade Register 10 x 6	7.00	0	0
WSF	DDVn07	Round vinyl duct, D = 7"	15.0	1.70	25.50
WSF	FBTJ-7	Ceiling rect register, size 7"	1.00	28.20	28.20
PGM	FRGRMCR-1010	Rectangular metal ceiling register one way, 10" x 10"	1.00	0	0
WSF	FCLR-4	Collar, d = 4"	4.00	0	0
WSF	FCLR-12	Collar, d = 12"	4.00	0	0
WSF	FCLR-6	Collar, d = 6"	5.00	0	0
WSF	FCLR-7	Collar, d = 7"	1.00	0	0
WSF	FJB-12	Junction box, size 12"	2.00	35.20	70.40
WSF	DDVn05	Round vinyl duct, D = 5"	26.0	1.50	39.00
WSF	FBTJ-5	Ceiling rect register, size 5"	2.00	25.40	50.80
WSF	FCLR-5	Collar, d = 5"	2.00	0	0
WSF	DDVn12	Round vinyl duct, D = 12"	21.0	2.20	46.20
PGM	FPLI-12	Plenum rect take off, size 12"	2.00	41.20	82.40
PGM	FJB-14	Junction box, size 18" x 10"	1.00	63.20	63.20
WSF	DRFg1810	Rectangular fiberglass duct, 18" x 10"	9.00	4.90	44.10
WSF	FBTS-12	Angle boot without transition, size 12"	2.00	0	0
PGM	FRGRMWG-2404	Rectangular metal high wall grille, 24" x 4"	3.00	0	0
HACL	650-14X14	650 Return Air Grille 14 x 14	2.00	0	0
		Subtotal, Duct System Equipment			824.40
		Overall total			824.40


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PX2707

11/06/2021

Static Pressure and Friction Rate

System1

MiTek Wrightsoft

Job:
Date: Oct 05, 2021
By:

131 Hartwell Ave, Lexington, MA 02421 Phone: 800-225-8697 Fax: 781-861-2058 Web: www.wrightsoft.com

Project Information

For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.40	0.40
Pressure losses		
Coil	0	0.05
Heat exchanger	0	0
Supply diffusers	0.05	0.05
Return grilles	0.03	0.03
Filter	0.15	0.15
Humidifier	0	0
Balancing damper	0.02	0.02
Other device	0	0
Available static pressure	0.15	0.10

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	16	0
Measured length of trunk	5	0
Equivalent length of fittings	86	0
Total length	107	0
Total effective length		107

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.141	OK	0.092	OK
Return Ducts	0.141	OK	0.092	OK

Fitting Equivalent Length Details

Supply 4AD=60, 11D=60, 11G=5, 11G=5, 1C=35, 11F=95, VelAdj=-174: TotalEL=86
Return TotalEL=0



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Duct System Summary

System1

MiTek Wrightsoft

Job:
Date: Oct 05, 2021
By:

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Project Information

For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

	Heating	Cooling
External static pressure	0.40 in H ₂ O	0.40 in H ₂ O
Pressure losses	0.25 in H ₂ O	0.30 in H ₂ O
Available static pressure	0.15 in H ₂ O	0.10 in H ₂ O
Supply / return available pressure	0.075 / 0.075 in H ₂ O	0.049 / 0.049 in H ₂ O
Lowest friction rate	0.141 in/100ft	0.092 in/100ft
Actual air flow	0 cfm	835 cfm
Total effective length (TEL)	107 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
BATH 2	C 486	0	23	0.146	4.0	0x0	VIFx	27.0	40.0	st2
BEDROOM 2	C 1968	0	92	0.137	6.0	0x0	VIFx	17.7	54.0	st2
BEDROOM 3	C 2855	0	134	0.109	7.0	0x0	VIFx	27.4	62.4	st2
BEDROOM 4	C 1983	0	93	0.117	6.0	0x0	VIFx	26.3	57.8	st2
GREAT/DINKIT	C 1939	0	91	0.109	6.0	0x0	VIFx	20.1	69.5	st1
GREAT/DINKIT-A	C 1939	0	91	0.123	6.0	0x0	VIFx	12.9	66.8	st1
GREAT/DINKIT-B	C 1939	0	91	0.119	6.0	0x0	VIFx	14.9	67.6	st1
LAU	C 888	0	42	0.126	4.0	0x0	VIFx	21.4	56.3	st2
O. BATH	C 501	0	24	0.142	4.0	0x0	VIFx	17.3	51.8	st1
O.WIC-A	C 129	0	6	0.161	4.0	0x0	VIFx	15.2	45.6	st1
OWNER'S SUITE	C 1583	0	74	0.092	5.0	0x0	VIFx	20.8	86.0	st1
OWNER'S SUITE-A	C 1583	0	74	0.098	5.0	0x0	VIFx	15.4	84.7	st1

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	0	451	0.092	574	12.0	0 x 0	VinIFlx	srs1
srs1	Peak AVF	0	835	0.092	668	13.8	10 x 18	RectFbg	
st2	Peak AVF	0	384	0.109	489	12.0	0 x 0	VinIFlx	srs1



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Bold/italic values have been manually overridden

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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	0x 0	0	835	0	0	0	0	0x 0		VIFx	



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...SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH.rup Calc = MJ8 Front Door faces: NE

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For: Covington_SLAB_Reserve at Jewel Lake P2_FrmA1_LS01_RH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	17793	Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	76.0°F	Latent gain:	3505	Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	21298	Btuh		
Indoor RH:	50%	Estimated airflow:	835	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	25HBC524AP0300+FB4CNP025L
Actual airflow:	835	cfm	
Sensible capacity:	18556	Btuh	104% of load
Latent capacity:	3878	Btuh	111% of load
Total capacity:	22434	Btuh	105% of load SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	33.0°F	Heat loss:	23568	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:	Carrier	Model:	25HBC524AP0300+FB4CNP025L
Actual airflow:	0	cfm	
Output capacity:	24000	Btuh	102% of load
Supplemental heat required:	0	Btuh	
			Capacity balance: 34 °F
			Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:	Carrier	Model:	KFCEH2501C08
Actual airflow:	0	cfm	
Output capacity:	8.0	kW	116% of load Temp. rise: 30 °F



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Meets all requirements of ACCA Manual S.

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