



Load Short Form Entire House MiTek Wrightsoft

Job:
Date: Aug 09, 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_FrmB1_LS43_LH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	11	45

Method
Shielding / stories
Pressure / AVF



Infiltration
Blower door
4 (substantial) / 1
50 Pa / 1299 cfm
Reviewed for Code Compliance
Universal Engineering Solutions

See File P42767

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 = 33 °F

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

EXAMINER - LICENSE NO. COOLING EQUIPMENT

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

Efficiency 12.5 EER, 15.5 SEER
Sensible cooling 20160 Btuh
Latent cooling 3840 Btuh
Total cooling 24000 Btuh
Actual air flow 835 cfm
Air flow factor 0.049 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	4457	2876	0	141
BATH 2	54	1288	478	0	23
BEDROOM 4	152	2558	1972	0	97
HVAC	26	0	0	0	0
LAU	58	798	888	0	44
O. BATH	78	1380	489	0	24
O.WIC	57	88	129	0	6
OWNER'S SUITE	210	3572	2859	0	140
GREAT/DIN/KIT	495	6749	5360	0	263
FOYER	110	0	0	0	0
BEDROOM 2	140	2032	1957	0	96
HALL	89	0	0	0	0

Bold/italic values have been manually overridden

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



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2021-Aug-09 15:03:11

Page 1

...SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH.rup Calc = MJ8 Front Door faces: SW

Entire House	1607	22924	17007	0	835
Other equip loads		0	0		
Equip. @ 1.00 RSM			17007		
Latent cooling			3314		
TOTALS	1607	22924	20321	0	835

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2021-Aug-09 15:03:11

Page 2

...SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH.rup Calc = MJ8 Front Door faces: SW



Loads for Multiple Orientations

Entire House

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Project Information

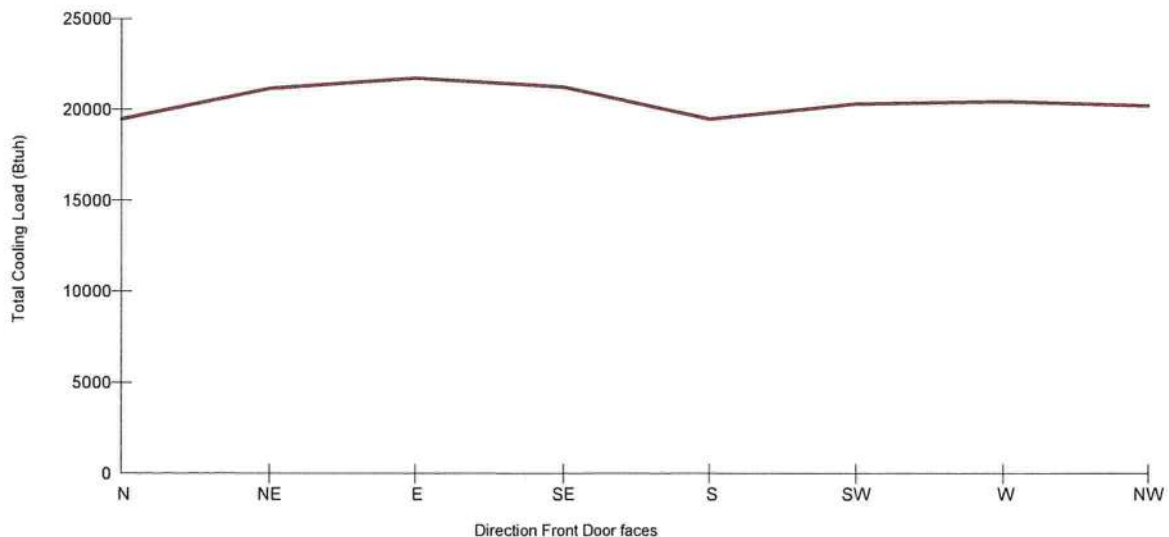
For: Covington_SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

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)	16183	17837	18408	17937	16169	17007	17129	16904
Latent Load (Btuh)	3314	3314	3314	3314	3314	3314	3314	3314
Total Load (Btuh)	19496	21150	21722	21250	19483	20321	20442	20218
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



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

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2021-Aug-09 15:03:11

Page 1

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Project Information

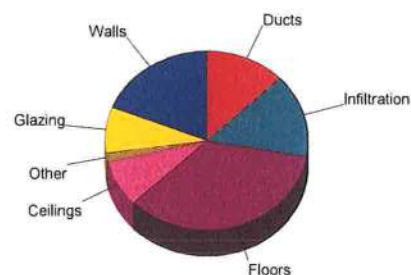
For: Covington SLAB Reserve at Jewel Lake P2_FrmB1_LS43_LH, Century CMP Florida
 SW Jewel Lake Drive, Lake City, FL 32024

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:		Infiltration:			
Heating		Method		Blower door	
Cooling		Shielding / stories		4 (substantial) / 1	
		Pressure / AVF		50 Pa / 1299 cfm	
Dry bulb (°F)	33				
Daily range (°F)	-				
Wet bulb (°F)	-				
Wind speed (mph)	15.0				

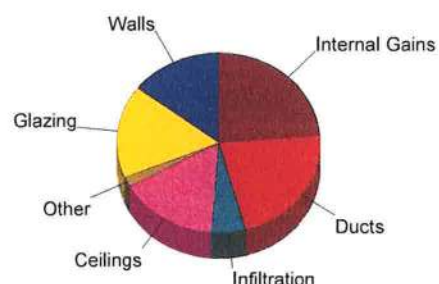
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	4351	19.0
Glazing	12.2	1872	8.2
Doors	10.7	405	1.8
Ceilings	1.2	1902	8.3
Floors	5.0	8012	34.9
Infiltration	2.9	3450	15.1
Ducts		2931	12.8
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		22924	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.9	2503	14.7
Glazing	18.4	2819	16.6
Doors	8.3	312	1.8
Ceilings	1.7	2673	15.7
Floors	0	0	0
Infiltration	0.8	912	5.4
Ducts		3738	22.0
Ventilation		0	0
Internal gains		4050	23.8
Blower		0	0
Adjustments		0	0
Total		17007	100.0



Latent Cooling Load = 3314 Btuh
 Overall U-value = 0.095 Btuh/ft²·°F

Data entries checked.



J1 Form - Worksheet A
Entire House
MiTek Wrightsoft

Job:
Date: Aug 09, 2021
By:

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

Supporting Detail

Project Name:	CMP-FL-38-1607_Covington_SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH	Date:	Aug 09, 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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2021-Aug-09 15:03:12

Page 1



Component Constructions Entire House MiTek Wrightsoft

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Project Information

For: Covington_SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH, 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	Method		
Daily range (°F)	-	20 (M)	Blower door		
Wet bulb (°F)	-	76	Shielding / stories		
Wind speed (mph)	15.0	7.5	Pressure / AVF		
				4 (substantial) / 1	
				50 Pa / 1299 cfm	

Construction descriptions

Construction descriptions	Or	Area ft²	U-value Btu/h-ft²-F	Insul R ft²-F/Btu/h	Htg HTM Btu/h-ft²	Loss Btu/h	Clg HTM Btu/h-ft²	Gain Btu/h
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	212	0.091	13.0	3.37	713	2.14	453
	se	422	0.091	13.0	3.37	1419	2.14	901
	sw	93	0.091	13.0	3.37	315	2.14	200
	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
Windows								
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	ne	33	0.330	0	12.2	407	22.6	752
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	60	0.330	0	12.2	733	20.0	1198
	se	15	0.330	0	12.2	183	19.6	294
	nw	15	0.330	0	12.2	183	20.0	300
	all	90	0.330	0	12.2	1099	19.9	1792
Century Florida Jacksonville Wnd: Window, NFRC rated (SHGC=0.29); 50% blinds 45°, medium; 50% outdoor insect screen; 7 ft overhang (5 ft window ht, 3.75 ft sep.); 6.67 ft head ht	sw	15	0.330	0	12.2	183	9.17	138
Century Florida Jacksonville Wnd: Window, NFRC rated (SHGC=0.29); 50% blinds 45°, medium; 50% outdoor insect screen; 7 ft overhang (5 ft window ht, 5.5 ft sep.); 6.67 ft head ht	sw	15	0.330	0	12.2	183	9.17	138
Doors								
11P0: Door, mtl pur core type	sw	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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Page 1

Floors

22A-tpm: Bg floor, heavy dry or light damp soil, on grade depth

184	1.180	0	43.7	8012	0	0
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Page 2



Project Summary

Entire House

MiTek Wrightsoft

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Project Information

For: Covington SLAB Reserve at Jewel Lake P2_FrmB1_LS43_LH, 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 19992 Btuh
Ducts 2931 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 22924 Btuh

Sensible Cooling Equipment Load Sizing

Structure 13269 Btuh
Ducts 3738 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Blower 0 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 17007 Btuh

Infiltration

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

Latent Cooling Equipment Load Sizing

Structure 2507 Btuh
Ducts 806 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Equipment latent load 3314 Btuh

	Heating	Cooling
Area (ft²)	1607	1607
Volume (ft³)	12986	12986
Air changes/hour	0.39	0.23
Equiv. AVF (cfm)	85	49

Equipment Total Load (Sen+Lat) 20321 Btuh
Req. total capacity at 0.84 SHR 1.7 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 = 33 °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 20160 Btuh
Latent cooling 3840 Btuh
Total cooling 24000 Btuh
Actual air flow 835 cfm
Air flow factor 0.049 cfm/Btuh
Static pressure 0.40 in H2O
Load sensible heat ratio 0.84

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2021-Aug-09 15:03:12

Page 1



AED Assessment
Entire House
MiTek Wrightsoft

Job:
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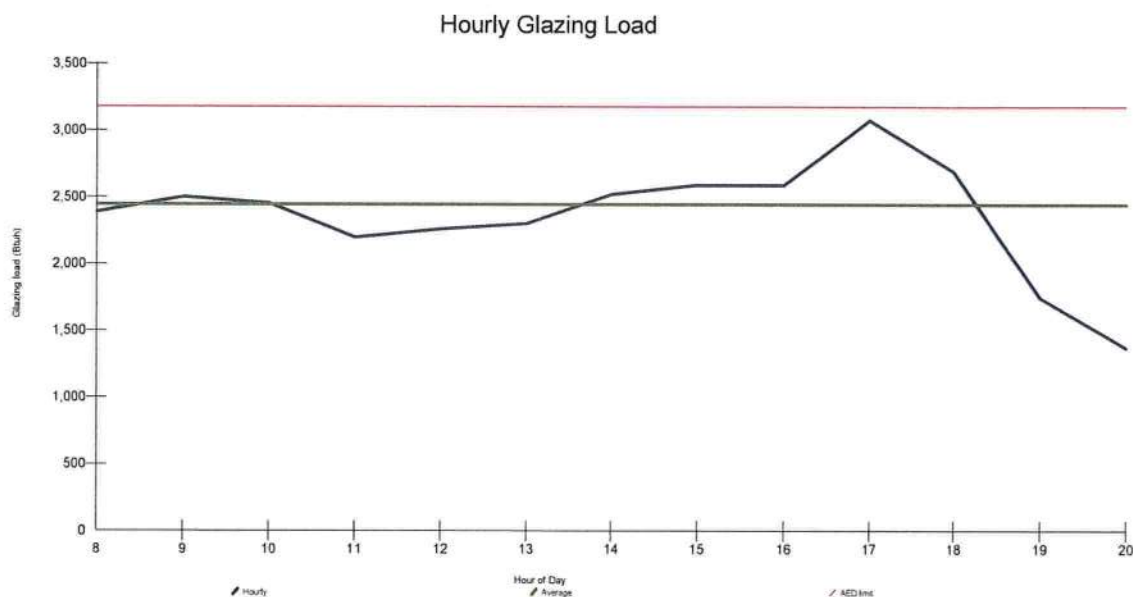
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SW Jewel Lake Drive, Lake City, FL 32024

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			

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 25.9%.

House has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh



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Page 1



Quotation

Job:
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By:

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For: Covington_SLAB_Reserve at Jewel Lake
8250 Hartwell 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	DDVn08	Round vinyl duct, D = 8"	15.0	1.80	27.00
PGM	FBTJ-8	Ceiling rect boot, size 8"	1.00	40.80	40.80
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-8	Collar, d = 8"	1.00	0	0
WSF	FJB-12	Junction box, size 12"	2.00	35.20	70.40
WSF	DDVn05	Round vinyl duct, D = 5"	27.0	1.50	40.50
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			840.00
		Overall total			840.00



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Page 1



Static Pressure and Friction Rate
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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	14	0
Measured length of trunk	13	0
Equivalent length of fittings	72	0
Total length	98	0
Total effective length		98

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.153	OK	0.100	OK
Return Ducts	0.153	OK	0.100	OK

Fitting Equivalent Length Details

Supply 4AD=60, 11F=95, 11G=5, 1C=35, 11F=95, 11G=5, VelAdj=-223: TotalEL=72
Return TotalEL=0



Duct System Summary

Entire House

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SW Jewel Lake Drive, Lake City, FL 32024

	Heating	Cooling
External static pressure	0.40 in H2O	0.40 in H2O
Pressure losses	0.25 in H2O	0.30 in H2O
Available static pressure	0.15 in H2O	0.10 in H2O
Supply / return available pressure	0.075 / 0.075 in H2O	0.049 / 0.049 in H2O
Lowest friction rate	0.153 in/100ft	0.100 in/100ft
Actual air flow	0 cfm	835 cfm
Total effective length (TEL)	98 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 478	0	23	0.141	4.0	0x0	VFx	27.0	42.4	st2
BEDROOM 2	c 1957	0	96	0.116	6.0	0x0	VFx	17.7	66.6	st2
BEDROOM 3	c 2876	0	141	0.116	8.0	0x0	VFx	27.4	57.0	st2
BEDROOM 4	c 1972	0	97	0.100	6.0	0x0	VFx	26.3	71.7	st2
GREAT/DINKIT	c 1787	0	88	0.125	6.0	0x0	VFx	20.1	58.1	st1
GREAT/DINKIT-A	c 1787	0	88	0.143	6.0	0x0	VFx	12.9	55.6	st1
GREAT/DINKIT-B	c 1787	0	88	0.138	6.0	0x0	VFx	14.9	56.3	st1
LAU	c 888	0	44	0.105	4.0	0x0	VFx	21.4	72.0	st2
O. BATH	c 489	0	24	0.159	4.0	0x0	VFx	17.3	44.5	st1
O.WIC-A	c 129	0	6	0.182	4.0	0x0	VFx	15.2	38.8	st1
OWNERS SUITE	c 1429	0	70	0.107	5.0	0x0	VFx	21.2	70.7	st1
OWNERS SUITE-A	c 1429	0	70	0.117	5.0	0x0	VFx	16.1	67.4	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	434	0.107	552	12.0	0 x 0	VinIFix	srs1
srs1	Peak AVF	0	835	0.100	668	13.6	10 x 18	RectFbg	
st2	Peak AVF	0	401	0.100	511	12.0	0 x 0	VinIFix	srs1

Bold/italic values have been manually overridden



Right-Suite® Universal 2021 21.0.08 RSU00000

2021-Aug-09 15:03:12

Page 1

...SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH.rup Calc = MJ8 Front Door faces: SW

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		MFx	



Manual S Compliance Report

Entire House

MiTek Wrightsoft

Job:
Date: Aug 09, 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_FrmB1_LS43_LH, Century CMP Florida
SW Jewel Lake Drive, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	17007	Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	76.0°F	Latent gain:	3314	Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	20321	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:	18652	Btuh	110% of load
Latent capacity:	3782	Btuh	114% of load
Total capacity:	22434	Btuh	110% of load SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	33.0°F	Heat loss:	22924	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	105% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	33	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:	Carrier	Model:	KFCEH2501C08
Actual airflow:	0	cfm	
Output capacity:	8.0	kW	119% of load Temp. rise: 30 °F

Meets all requirements of ACCA Manual S.



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2021-Aug-09 15:03:12

Page 1

...SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH.rup Calc = MJ8 Front Door faces: SW



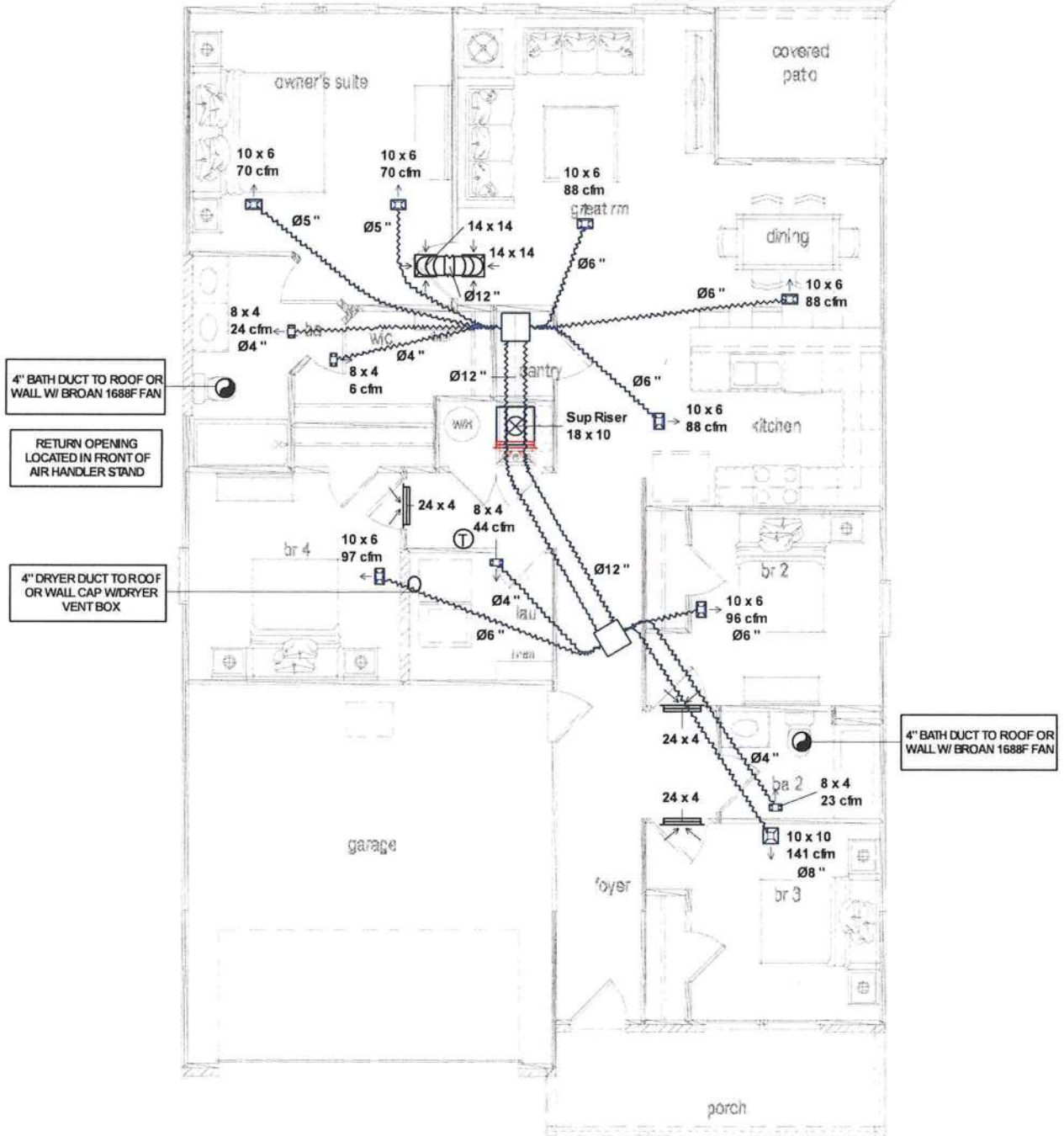
Main Floor

FRONT DOOR ORIENTATION IS
SET PER SITE PLAN

IMPORTANT: ANY DEVIATION FROM THIS
DESIGN, IE: ORIENTATION, WEATHER
LOCATION OR OPTIONS WILL REQUIRE
AN UPDATED HVAC DESIGN

NOTE: MUST PROVIDE UNRESTRICTED 1 INCH UNDERCUT
BELOW DOORS TO HABITABLE ROOMS.
TRANSFER DUCTS/GRILLES SIZED IN COMPLIANCE WITH
FLORIDA RESIDENTIAL BUILDING CODE M 180 2.4
BALANCED RETURN AIR. EXCEPTIONS 1-3

SUPPLY REGISTER TYPE: TRUAIRE 401



Job #:
Performed for:

Covington_SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH
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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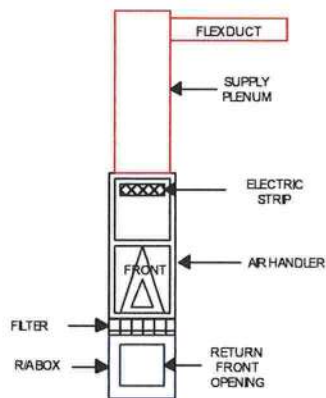
Page 1
Right-Suite@ Universal 2021
21.0.08 RSU00000
2021-Aug-09 15:03:17
... Jewel Lake P2_FrmB1_LS43_LH.rup



Notes

CITED NOTES	
①	NOT INCLUDING MAKE UP AIR PER EXISTING DESIGN
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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Scale: 1 : 99
Page 2
Right-Suite® Universal 2021
21.0.08 RSU00000
2021-Aug-09 15:03:17
... Jewel Lake P2_FrmB1_LS43_LH.rup



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.

Job #:
Performed for:

Covington_SLAB_Reserve at Jewel Lake P2_FrmB1_LS43_LH
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Page 3
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