Location
Building owner
Program user
Company
Comments

RLF

By RLF

Dataset name I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

Calculation time 05:04 PM on 01/24/2023

TRACE® 700 version 6.3.4

Location Orlando, Florida Latitude 28.0 deg Longitude 81.0 deg Time Zone 5 Elevation 106 ft Barometric pressure 29.8 in. Hg Air density 0.0757 lb/cu ft 0.2444 Btu/lb·°F Air specific heat Btu/h·cfm·°F Density-specific heat product 1.1109 Latent heat factor 4,890.3 Btu·min/h·cu ft Enthalpy factor 4.5449 lb·min/hr·cu ft Summer design dry bulb 95.0 °F Summer design wet bulb 74.8 °F Winter design dry bulb 38.0 °F Summer clearness number 0.95 Winter clearness number 0.95

0.20

Winter ground reflectance 0.20
Carbon Dioxide Level 400 ppm

Design simulation period January - December

Cooling load methodology TETD-TA1
Heating load methodology UATD

Summer ground reflectance





By RLF

Room Description: 174-ENTRY/RECEPTION

GENERAL INFORMATION

Floor Area: 237 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr:

Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²-°F/Btu Is There Carpet?: YES

Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Room Multiplier: 1

Humidistat Location:Room CO2 Sensor Location: None

Room Type:Conditioned

Zone Description: No Zone **PEOPLE**

People Type: General Office Space

of People: 4 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design)

Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

AIRFLO

Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

								(Glass		
Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft².°F	Alpha	Type / Energy Type	Area ft²	Shade Coef	U Value Btu/h·ft²·°F	External Shading	In St
Roof - 1	237 ft²	0	90 Steel Sheet, 2* Ins	0.1247	0.90		0			Overhang - None	Ν
Wall - 1	230 ft ²	360	0 8* HW Block	0.4022	0.90						
Opening - 1			Window			Single Clear 1/4*	100	0.95	0.95	Overhang - None	Ν
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)			None					
Partition - 1	155 ft²		8* HW Conc Block	0.4030							
Partition - 2	155 ft²		8* HW Conc Block	0.4030							
Floor - 1											

22257 UCF B016A F&S Bldg Dept Reno Project Name:

I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc Dataset Name:

SYSTEM ENTERED VALUES

By RLF

AHU - Bypass VAV

esign Air Condition	ons Max Min				
Cooling Leaving cooli Heating	ing coil:	Supply duct temperature diff: 0.0 °F Reheat Temperature diff: 0.0 °F	Design humidity ratio diff: Min room relative humidity:		
dvanced Options					
Block coolin	l location: System	Supply fan motor location: Supply Return fan motor location: Return Supply fan cofiguration: Draw Thru	Night purge schedule: Off (0%) Optimum start schedule: Off (0%) Optimum stop schedule: Off (0%)		
Supply duct	t location: Return Air n air path: PLENUM	Supply fan sizing: Block Fan mechanical efficiency: 75% Apply Std62 People Avg: No Std62 Max Vent (Z) Ratio:	CO2-based DCV: None System ventilation flag: Sum Room OA Regs		
•	ase room schedule: Off (0%) Max reset: ult outside air reset: Yes Control Method Activate After Primary System	Control Type None	Supply air path / duct location: Return Air Space convective gains to occupied layer:		
Auxiliary feeting coil Auxiliary fan	Activate After Primary System No Fan	None			
oile Con	anity.	Calcadiula	Diversity		

Coils	Capacity	Schedule	Diversity
Main cooling:	100.0 % of Design Capacity by adjusting a	Available (100%)	People 100%
Aux cooling:		Available (100%)	Lights 100%
Main heating:	100.0 % of Design Capacity	Available (100%)	Misc loads 100%
Aux heating:		Available (100%)	
Preheat:	100.0% of Design Capacity	Available (100%)	
Reheat:	100.0 % of Design Capacity	Available (100%)	
Humidification:	100.0 % of Design Capacity	Available (100%)	

Fans	Туре	Static Press.	90.1 SP Adj	Full Load Energy Rate	Schedule	Efficiency	Priority
	Primary None	0.0 in. wg	0.0 in. wg	0.00000 kW	Available (100%)	90	
	Secondary None	0.0 in. wg	NA	0.00000 kW	Available (100%)	85	
	Return None	0.0 in. wg	0.0 in. wg	0.00000 kW	Available (100%)	90	
Syste	m Exhaust None	0.0 in. wg	0.0 in. wg	0.00000 kW	Available (100%)	90	
Rooi	m Exhaust None	0.0 in. wg	0.0 in. wg	0.00000 kW	Available (100%)	85	
Optional	ventilation None	0.0 in. wg	NA	0.00000 kW	Available (100%)	90	
	Auxiliary None	0.0 in. wg	NA	0.00000 kW	Available (100%)	85	
F	an Cycling				Cycle with occupancy 0.0 ft		

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

Declara Air Conditions

Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

Entered Values

TRACE® 700 version 6.3.4

By RLF

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

Location:
Building Owner:
Program User:
Company: RLF
Comments:

Cooling Design Period:January thruDecemberLocation:Orlando, FloridaPeak Hour Override:0Summer Design Dry Bulb:95.00°FDaylight Savings Period:Summer Design Wet Bulb:74.80°FSummer Period:Winter Design Dry Bulb:38.00°F

Cooling Methodology: TETD-TA1

Heating Methodology: UATD

Summer Clearness Number: 0.95

Winter Clearness Number: 0.95

Infiltration Methodology: Vary with wind speed

Outside Film Methodology: Vary with wind speed

Terrain Methodology: Center of a large city

Vary with wind speed

Summer Ground Reflectance: 0.20

Winter Ground Reflectance: 0.20

Carbon Dioxide Level: 400 ppm

Room Circ Rate: Medium

Wall Load To Plenum: YES Force VAV Min => Nominal Ventilation at Design:

Building Orientation: 0 degrees from north

Allow Energy Recovery/Transfer at Design: No

Retest Design Peaks: Yes

Simulation Hours: Reduced year Calculate Building Block Loads: No

Calendar Code: Standard (1978)

Energy Simulation Period: January thru December Close ventilation dampers during unoccupied hours: Yes

Project Name: 22257 UCF B016A F&S Bldg Dept Reno
Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

System Checksums By RLF

Bypass VAV AHU

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
	d at Time: utside Air:	Mo/H OADB/WB/Hi	lr: 6 / 16 R: 94 / 75 / 9	99	Mo/Hr: OADB:			Mo/Hr: He OADB: 38	eating Design 3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · · · · · · · · · · · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	11,229	11,229	24	0	0	Roof Cond	0	-2,739	9.18
Glass Solar	3,773	0	3,773	8 ;	3,980	12	Glass Solar	0	0	0.00
Glass/Door Cond	2,089	0	2,089	4 :	1,937	6	Glass/Door Cond	-3,294	-3,294	11.04
Wall Cond	2,296	648	2,944	6;	2,694	8	-	-3,086	-3,870	12.98
Partition/Door	11,122		11,122	24	11,281	35	Partition/Door	-12,264	-12,264	41.11
Floor	0		0	0	0.00	0	Floor	-613	-613	2.06
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	0		0	0 :	0	0	Infiltration	0	0	0.00
Sub Total ==>	19,280	11,877	31,157	66	19,892	62	Sub Total ==>	-19,257	-22,780	76.37
Internal Loads							Internal Loads			
Lights	2,796	699	3,495	7:	2,796	9	Lights	0	0	0.00
People	4,500	0	4,500	10	2,500	8	People	0	0	0.00
Misc	5,188	0	5,188	11	5,188	16	Misc	0	0	0.00
Sub Total ==>	12,484	699	13,183	28	10,484	33	Sub Total ==>	0	0	0.00
Ceiling Load	1.974	-1,974	0	0	1,745	5	Ceiling Load	-3,426	0	0.00
Ventilation Load	0	0	3.106	7	0	0	Ventilation Load	0	-2,184	7.32
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0 ;			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		721	-2.42
Exhaust Heat	ū	-415	-415	-1	ŭ	·	OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0 :			Additional Reheat		-5,585	18.72
Duct Heat Pkup		0	0	0:			i I		,	
Underfir Sup Ht Pku	р		0	0 :			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	33,738	10,187	47,031	100.00	32,122	100.00	Grand Total ==>	-22,683	-29,828	100.00

TEMPERATURES								
Cooling Heating								
55.1	70.0							
81.1	59.4							
81.1	59.4							
81.7	58.5							
0.0	0.0							
0.0	0.0							
0.0	0.0							
	55.1 81.1 81.1 81.7 0.0 0.0							

AIRF	LOWS	
	Cooling	Heating
Diffuser	1,453	439
Terminal Main Fan	1,453 1,453	439 1,462
Sec Fan	0	0
Nom Vent	61	61
AHU Vent	61	61
Infil	0	0
MinStop/Rh	439	439
Return	1,453	1,453
Exhaust	61	61
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS									
	Cooling Heating								
% OA	4.2	4.2							
cfm/ft²	1.42	1.42							
cfm/ton	370.73								
ft²/ton	261.28								
Btu/hr·ft ²	45.93	-29.24							
No. People	10								

			COOLING	G COIL SEL	ECTIC	N				
	Total (Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Ent °F	er DB/W	'B/HR gr/lb	Lea °F		/WB/HR gr/lb
Main Clg	3.9	47.0	43.3	1,436	81.7	63.5	59.0	55.1	52.3	54.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	3.9	47.0								

	AREAS	3	
	Gross Total	Glas	s
		ft²	(%)
Floor	1,024		
Part	1,444		
Int Door	0		
ExFlr	38		
Roof	1,024	0	0
Wall	427	100	23
Ext Door	24	0	0

HEAT	HEATING COIL SELECTION									
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F						
Main Htg	-29.9	0	0.0	0.0						
Aux Htg	0.0	0	0.0	0.0						
Preheat	0.0	0	0.0	0.0						
Reheat	-7.3	439	55.1	70.0						
lumidif	0.0	0	0.0	0.0						
Opt Vent	0.0	0	0.0	0.0						
Total	-29.9									

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

174-ENTRY/RECEPTION

	COOLING C	SOIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peake	ed at Time:	Mo/F	Hr: 6 / 16		Mo/Hr:	6 / 18		Mo/Hr: He	eating Design	
O	outside Air:	OADB/WB/HF	R: 94 / 75 / 9	99	OADB:	91	1 1 1	OADB: 38	3	
	Space	Plenum	Net	Percent	Space	Percent	· ·	Space Peak	Coil Peak	Percen
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total	T. F.	Space Sens	Tot Sens	Of Tota
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	!	Btu/h	Btu/h	(%
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0 :	0	0		0	0	
Skylite Cond	0	0	0	0		0		0	0	٠.٠
Roof Cond	0	2,592	2,592	16		0		0	-634	
Glass Solar	3,773	0	3,773	23	'	31	1	0	0	0.0
Glass/Door Cond	1,904	0	1,904	11		14		-2,989	-2,989	
Wall Cond	750	299	1,049	6 ;		7	-	-1,078	-1,474	
Partition/Door	2,504		2,504	15	,	20		-2,504	-2,504	
Floor	0		0	0 :		0		-306	-306	
Adjacent Floor	0.00	0.00	0.00	0.00		0.00		0.00	0.00	
Infiltration	0		0	0	0	0	1	0	0	
Sub Total ==>	8,931	2,891	11,823	71	9,144	71	Sub Total ==>	-6,877	-7,907	74.9
Internal Loads				:	i	:	Internal Loads			
Lights	647	162	809	5	647	5	Lights	0	0	0.0
People	1,800	0	1,800	11 :		8		0	0	
Misc	1,618	0	1,618	10	, ,	13	Misc	0	0	
Sub Total ==>	4,065	162	4,227	25		25		0	0	
Ceiling Load	457	-457	0	0	404	3	Ceiling Load	-793	0	0.
Ventilation Load	0	0	719	4		- ,	Ventilation Load	0	-506	
Adj Air Trans Heat	0	-	0	0		- ,	Adj Air Trans Heat	0	0	
Dehumid. Ov Sizina	-		0	0		•	Ov/Undr Sizing	0	0	
Ov/Undr Sizing	0		0	0 :		0	Exhaust Heat	·	167	
Exhaust Heat	U	-96	-96	-1 ·		U,	OA Preheat Diff.		0	
Sup. Fan Heat			-30	0		i	RA Preheat Diff.		0	
Ret. Fan Heat		0	0	0:		•	Additional Reheat		-2.456	
Duct Heat Pkup		0	0	0		:	System Plenum Heat		154	
Underfir Sup Ht Pku	ın	-	0	0			Underfir Sup Ht Pkup		0	
Supply Air Leakage	•	0	0	0		ıi.	Supply Air Leakage		0	
		2.500	10.070			100.00		7.070	10.540	
Grand Total ==>	13,453	2,500	16,672	100.00	12,813	100.00	Grand Total ==>	-7,670	-10,548	100

			COOLIN	G COIL SELE	CTIO	N				
	Total (Capacity	Sens Cap.	Coil Airflow	En	ter DB	/WB/HR	Lea		WB/HR
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	1.4	16.7	15.5	580	81.4	63.3	58.2	55.1	53.4	58.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.4	16.7								

	AREAS	S		
G	ross Total	Glass ft ²	s (%)	
Floor Part	237 311		(70)	Ma Au
Int Door ExFIr	0 19			Pre
Roof Wall	237 230	0 100	0 44	Hu
Ext Door	0	0	0	To

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

174-ENTRY/RECEPTION

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peake	d at Time:	Mo/H	r: 6 / 16		Mo/Hr:	6 / 18	ı	Mo/Hr: He	ating Design	
O	utside Air:	OADB/WB/HF	R: 94 / 75 / 9	99	OADB:	91	· ·	OADB: 38	3	
	Space	Plenum	Net	Percent	Space	Percent	i !	Space Peak	Coil Peak	Percent
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total	! ! !	Space Sens	Tot Sens	Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	,	0	0	0.0
Skylite Cond	0	0	0	0	0	0		0	0	0.0
Roof Cond	0	2,592	2,592	16	0	0		0	-634	6.0
Glass Solar	3,773	0	3,773	23	3,980	31	Glass Solar	0	0	0.00
Glass/Door Cond	1,904	0	1,904	11 ;	1,765	14		-2,989	-2,989	28.34
Wall Cond	750	299	1,049	6;	895	7	; Wall Cond	-1,078	-1,474	13.97
Partition/Door	2,504		2,504	15	2,504	20	Partition/Door	-2,504	-2,504	23.74
Floor	0		0	0 :	0.00	0	Floor	-306	-306	2.9
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0
Infiltration	0		0	0 :	0	0	Infiltration	0	0	0.0
Sub Total ==>	8,931	2,891	11,823	71	9,144	71	Sub Total ==>	-6,877	-7,907	74.9
Internal Loads							Internal Loads			
Lights	647	162	809	5	647	5	Lights	0	0	0.00
People	1.800	0	1.800	11	1.000	8		0	0	0.0
Misc	1,618	0	1,618	10	1,618	13		0	0	0.0
Sub Total ==>	4,065	162	4,227	25	3,265	25	'	0	0	0.0
Sub Total>	4,000	102	7,221	20	0,200	20	Sub Total ==>	Ü	O .	0.0
Ceiling Load	457	-457	0	0	404	3	Ceiling Load	-793	0	0.0
Ventilation Load	0	0	719	4	0	0	Ventilation Load	0	-506	4.7
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	
Dehumid. Ov Sizing			0	0:			Ov/Undr Sizina	0	0	0.0
Ov/Undr Sizing	0		0	0;	0	٥	Exhaust Heat	Ŭ	167	-1.5
Exhaust Heat	U	-96	-96	-1		U	OA Preheat Diff.		0	0.0
Sup. Fan Heat		00	0	0			RA Preheat Diff.		0	0.0
Ret. Fan Heat		0	0	0			Additional Reheat		-2.456	23.2
Duct Heat Pkup		0	0	0			System Plenum Heat		154	-1.4
Underfir Sup Ht Pku	ın	· ·	0	0			Underfir Sup Ht Pkup		0	0.0
Supply Air Leakage	Р	0	0	0			Supply Air Leakage		0	0.0
Supply All Leakage		0	U	0			Supply All Leakage		U	0.0
Grand Total ==>	13,453	2,500	16,672	100.00	12,813	100.00	Grand Total ==>	-7,670	-10,548	100.0

			COOLIN	G COIL SEL	ECTIC	N					
	Total (Capacity	Sens Cap.	Coil Airflow	Ent	ter DB/W	/B/HR	Leave DB/WB/HR			
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	1.4	16.7	15.5	580	81.4	63.3	58.2	55.1	53.4	58.2	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	1.4	16.7									

	AREA	S	
Gro	ss Total	Glas	s (%)
Floor	237		
Part	311		
Int Door	0		
ExFlr	19		
Roof	237	0	0
Wall	230	100	44
Ext Door	0	0	0

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

Load / Airflow Summary

By RLF

					Coil	Coil	Space		VAV		Main Coil	Heating		
			Floor		Cooling	Cooling	Design	Air	Minimum	VAV	Heating	Fan	Perc	ent
			Area	People	Sensible	Total	Max SA	Changes	SA	Minimum	Sensible	Max SA	O	Α
System	Zone Room **		ft²	#	Btu/h	Btu/h	cfm	ach/hr	cfm	%	Btu/h	cfm	Clg	Htg
Alterna	tive 1													
	174-ENTRY/RECEPTION	Rm Peak	237	4.0	15,460	16,672	580	18.34	174	30	-10,548	406	2.5	2.5
	174E-OFFICE	Rm Peak	157	2.0	6,449	7,136	213	10.18	64	30	-4,624	149	4.4	4.4
	174F-CORRIDOR	Rm Peak	264	0.0	8,030	8,706	243	6.89	73	30	-6,224	170	6.5	6.5
	175A-OFFICE	Rm Peak	80	1.0	2,752	3,143	86	8.09	26	30	-1,435	60	5.6	5.6
	175B-OFFICE	Rm Peak	80	1.0	2,745	3,136	86	8.06	26	30	-1,426	60	5.6	5.6
	175C-OFFICE	Rm Peak	80	1.0	2,752	3,143	86	8.09	26	30	-1,435	60	5.6	5.6
	175D-OFFICE	Rm Peak	80	1.0	2,752	3,143	86	8.09	26	30	-1,435	60	5.6	5.6
	175-ELEC	Rm Peak	46	0.0	2,287	2,369	82	13.32	25	30	-2,816	57	3.4	3.4
AHU		Sys Peak	1,024	10.0	42,874	47,096	1,462				-29,942	1,014	4.2	4.2
AHU		Sys Block	1,024	10.0	43,249	47,031	1,453				-29,942	1,014	4.2	4.2

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

^{*} This report does not display heating only systems.

PEAK COOLING LOADS

MAIN SYSTEM

By RLF

SPACE COIL

					c	PΑ	Room	Supply	Space	Space	Space		0	Α			Coil	Coil
			Floor	Peak	Con	dition	Dry	Dry	Air	Sensible	Latent	Peak	Cond	dition	Supply	Coil	Sensible	Latent
			Area	Time	DB	WB	Bulb	Bulb	Flow	Load	Load	Time	DB	WB	Dry Bulb	Airflow	Load	Load
System	Zone Room		ft²	Mo/Hr	°F	°F	°F	°F	cfm	Btu/h	Btu/h	Mo/Hr	°F	°F	°F	cfm	Btu/h	Btu/h
Alterna	ative 1																	
	174-ENTRY/RECEPTION	Peak	237	6/18	91	74	75.0	55.1	580	12,813	800	6 /16	94	75	55.1	580	15,460	1,212
	174E-OFFICE	Peak	157	6/19	88	73	75.0	55.1	213	4,710	400	6 /17	93	75	55.1	213	6,449	687
	174F-CORRIDOR	Peak	264	6/16	94	75	75.0	55.1	243	5,365	0	8 /16	93	77	55.1	243	8,030	676
	175A-OFFICE	Peak	80	6/16	94	75	75.0	55.1	86	1,907	200	8 /15	93	77	55.1	86	2,752	391
	175B-OFFICE	Peak	80	6/16	94	75	75.0	55.1	86	1,900	200	8 /15	93	77	55.1	86	2,745	391
	175C-OFFICE	Peak	80	6/16	94	75	75.0	55.1	86	1,907	200	8 /15	93	77	55.1	86	2,752	391
	175D-OFFICE	Peak	80	6/16	94	75	75.0	55.1	86	1,907	200	8 /15	93	77	55.1	86	2,752	391
	175-ELEC	Peak	46	6/19	88	73	75.0	55.1	82	1,806	0	6 /18	91	74	55.1	82	2,287	83
AHU		Peak	1,024		91	74	75.0	55.1	1,462	32,316	2,000		94	75	55.1	1,462	42,874	4,221
AHU		Block	1,024	6/18	91	74	75.0	55.1	1,453	32,121	2,000	6 /16	94	75	55.1	1,436	43,249	3,782

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

PEAK HEATING LOADS

MAIN SYSTEM

By RLF

OA Condition
DB WB

DB WB Peak Time °F °F		[SPACE				COIL			
Htg Design 38 27	Block	Floor	Room Dry	Supply Dry	Space Air	Space Sensible	Supply Dry	Coil Air	Coil Sensible		
	or	Area	Bulb	Bulb	Flow	Load	Bulb	Flow	Load		
System Zone Room	Peak	ft²	°F	°F	cfm	Btu/h	°F	cfm	Btu/h		
Alternative 1											
174-ENTRY/RECEPTION	Peak	237	70.0	70.0	174	-7,670	70.0	0	-10,548		
174E-OFFICE	Peak	157	70.0	70.0	64	-3,566	70.0	0	-4,624		
174F-CORRIDOR	Peak	264	70.0	70.0	73	-5,019	70.0	0	-6,224		
175A-OFFICE	Peak	80	70.0	70.0	26	-1,006	70.0	0	-1,435		
175B-OFFICE	Peak	80	70.0	70.0	26	-999	70.0	0	-1,426		
175C-OFFICE	Peak	80	70.0	70.0	26	-1,006	70.0	0	-1,435		
175D-OFFICE	Peak	80	70.0	70.0	26	-1,006	70.0	0	-1,435		
175-ELEC	Peak	46	70.0	70.0	25	-2,410	70.0	0	-2,816		
AHU	Peak	1,024	70.0	70.0	439	-22,683	70.0	0	-29,942		
AHU	Block	1,024	70.0	70.0	439	-22,679	70.0	0	-29,942		

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

BUILDING ENVELOPE COOLING LOADS

at Space Peak

By RLF

Alternative 1

	1-								
			WA	LL					WINDOW
		Plenum	Plenum	Space	Space	Space	Plenum		Space
		Load	CLTD	Load	CLTD	Solar	Solar	Solar	Conduction
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h
174E-OFFICE	Zn Tot/Ave	341	24.3	1,325	28.6	0	0	0.000	154
175A-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0
175B-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0
175C-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0
175D-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0
174-ENTRY/RECEPTION	Zn Tot/Ave	391	21.2	895	26.6	3,980	0	0.828	1,765
175-ELEC	Zn Tot/Ave	127	30.9	576	35.2	0	0	0.000	0
174F-CORRIDOR	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0
AHU	Sys Tot/Ave	859	23.5	2,796	29.0	3,980	0	0.828	1,920
AHU	Sys Block	826	22.5	2,694	28.0	3,980	0	0.828	1,937

			— ROC	JF ———				§	SKYLIGHT -
		Plenum		Space					Plenum
		Sensible	Plenum	Sensible	Space	Plenum	Space		Conduction
		Load	CLTD	Load	CLTD	Solar	Solar		Load
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h
174E-OFFICE	Zn Tot/Ave	1,147	58.6	0	62.8	0	0	0.000	0
175A-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0
175B-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0
175C-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0
175D-OFFICE	Zn Tot/Ave	891	89.3	0	95.4	0	0	0.000	0
174-ENTRY/RECEPTION	Zn Tot/Ave	2,146	72.6	0	78.0	0	0	0.000	0
175-ELEC	Zn Tot/Ave	357	62.2	0	66.5	0	0	0.000	0
174F-CORRIDOR	Zn Tot/Ave	2,888	87.7	0	93.8	0	0	0.000	0
AHU	Sys Tot/Ave	10,103	79.1	0	83.0	0	0	0.000	0
AHU	Svs Block	9,196	72.0	0	77.4	0	0	0.000	0

Project Name:
Dataset Name: 22257.trc

BUILDING ENVELOPE HEATING LOADS

at Space Peak

By RLF

Alternative 1

	Ī		— WA	LL		1			- WINDOW -	
		Plenum	Plenum	Space	Space	Space	Plenum		Space	Sp
		Load	CLTD	Load	CLTD	Solar	Solar	Solar	Conduction	CL
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	
174E-OFFICE	Zn Tot/Ave	-300	-21.4	-1,484	-32.0	0	0	0.000	-305	-31
175A-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	C
175B-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	(
175C-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	(
175D-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	(
174-ENTRY/RECEPTION	Zn Tot/Ave	-396	-21.4	-1,078	-32.0	0	0	0.000	-2,989	-30
175-ELEC	Zn Tot/Ave	-88	-21.4	-524	-32.0	0	0	0.000	0	(
174F-CORRIDOR	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	(
AHU	Sys Tot/Ave	-784	-21.4	-3,086	-32.0	0	0	0.000	-3,294	-31
AHU	Sys Block	-787	-21.4	-3,082	-32.0	0	0	0.000	-3,294	-31

			— ROC	OF					SKYLIGHT -
		Plenum Sensible	Plenum	Space Sensible	Space	Plenum	Space		Plenum Conduction F
System Zone Room		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Solar Btu/h	Solar Btu/h	Solar CLF	Load Btu/h
174E-OFFICE	Zn Tot/Ave	-420	-21.4	0	-32.0	0	0	0.000	0
175A-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0
175B-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0
175C-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0
175D-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0
174-ENTRY/RECEPTION	Zn Tot/Ave	-634	-21.4	0	-32.0	0	0	0.000	0
175-ELEC	Zn Tot/Ave	-123	-21.4	0	-32.0	0	0	0.000	0
174F-CORRIDOR	Zn Tot/Ave	-706	-21.4	0	-32.0	0	0	0.000	0
AHU	Sys Tot/Ave	-2,739	-21.4	0	-32.0	0	0	0.000	0
AHU	Sys Block	-2 739	-21 4	0	-32 0	0	0	0.000	0

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

BUILDING ENVELOPE HEATING LOADS

at Space Peak

By RLF

	Ī	FLO	OR —	PART	TITION —	INFILT	RATION —	CE
		Load	CLTD	Load	CLTD	Airflow	Sensible	Plenum Dry Bulb Ter
System Zone Room		Btu/h	°F	Btu/h	°F	cfm	Btu/h	°F
174E-OFFICE	Zn Tot/Ave	-232	-32.0	-1,020	-20.0	0	0	59.4
175A-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4
175B-OFFICE	Zn Tot/Ave	0	0.0	-732	-20.0	0	0	59.4
175C-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4
175D-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4
174-ENTRY/RECEPTION	Zn Tot/Ave	-306	-32.0	-2,504	-20.0	0	0	59.4
175-ELEC	Zn Tot/Ave	-75	-32.0	-1,657	-32.0	0	0	59.4
174F-CORRIDOR	Zn Tot/Ave	0	0.0	-4,136	-20.0	0	0	59.4
AHU	Sys Tot/Ave	-613	-32.0	-12,264	-21.1	0	0	59.4
AHU	Sys Block	-613	-32.0	-12,264	-21.1	0	0	59.4

		SL	CONDUCTION HEA						
UNDER FLOOR System Zone Room		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	Supply Tem Entering Uflr Plen °F	nperature Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup ° F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Condu From Floor Btu
	7- T-#/A	<u> </u>							
174E-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0		
175A-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175B-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175C-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175D-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175-ELEC	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
174F-CORRIDOR	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
AHU	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	
AHU	Sys Block	0	0	0.0	0.0	0.0	0	0	

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

BUILDING ENVELOPE COOLING LOADS

at Space Peak

By RLF

	_	— FLO	OR —	PARTI	ITION —	. 	INFILTRATION —		
			-Oik	I AKI					
0t 7 D		Load	CLTD	Load	CLTD	Airflow	Sensible	Latent	
System Zone Room		Btu/h	°F	Btu/h	°F	cfm	Btu/h	Btu/h	
174E-OFFICE	Zn Tot/Ave	0	0.0	1,020	20.0	0	0	0	
175A-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	
175B-OFFICE	Zn Tot/Ave	0	0.0	732	20.0	0	0	0	
175C-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	
175D-OFFICE	Zn Tot/Ave	0	0.0	739	20.0	0	0	0	
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0.0	2,504	20.0	0	0	0	
175-ELEC	Zn Tot/Ave	0	0.0	728	14.1	0	0	0	
174F-CORRIDOR	Zn Tot/Ave	0	0.0	4,136	20.0	0	0	0	
AHU	Sys Tot/Ave	0	0.0	11,335	19.5	0	0	0	
AHU	Sys Block	0	0.0	11,281	19.4	0	0	0	

	[su		CONDUCTION HEA					
UNDER FLOOR		Supply Airflow into Uflr Plen	Uflr Plen Air Leakage To Space	Supply Tem Entering Uflr Plen	Leaving Uflr Plen	Uflr Plenum Air Heat Pickup	Conduction From Adj Ceiling Plen	Conduction From Adj Ceiling No Plen	Condu From Floor
System Zone Room		cfm	cfm	°F	°F	°F	Btu/h	Btu/h	Btu
174E-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175A-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175B-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175C-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175D-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
175-ELEC	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
174F-CORRIDOR	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	
AHU	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	
AHU	Sys Block	0	0	0.0	0.0	0.0	0	0	

Project Name:
Dataset Name: 22257.trc

By RLF

174E-OFFICE

•	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
	l at Time: itside Air:	Mo/H OADB/WB/HF	r: 6 / 17 R: 93 / 75 / 1	01	Mo/Hr: OADB:			Mo/Hr: He OADB: 38	eating Design 3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · · · · · · · · · · · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	! !	Btu/h	Btu/h	(%)
Envelope Loads				:			Envelope Loads			
Skylite Solar	0	0	0	0	0	0	,	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	1,618	1,618	23	0	0		0	-420	9.08
Glass Solar	0	0	0	0 ;	0	0		0	0	0.00
Glass/Door Cond	183	0	183	3;	154	3		-305	-305	6.60
Wall Cond	1,135	260	1,395	20 ;	1,325	28		-1,484	-1,784	38.59
Partition/Door	1,020		1,020	14	1,020	22		-1,020	-1,020	22.05
Floor	0		0	0	0.00	0	Floor	-232	-232	5.02
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Infiltration	0		0	0 :	0	0	Infiltration	0	0	0.00
Sub Total ==>	2,338	1,878	4,215	59	2,499	53	Sub Total ==>	-3,041	-3,761	81.34
Internal Loads							Internal Loads			
Lights	429	107	536	8	429	9	Lights	0	0	0.00
People	900	0	900	13	500	11	People	0	0	0.00
Misc	1,072	0	1,072	15	1,072	23	Misc	0	0	0.00
Sub Total ==>	2,400	107	2,508	35	2,000	42	Sub Total ==>	0	0	0.00
Ceiling Load	295	-295	0	0	211	4	Ceiling Load	-525	0	0.00
Ventilation Load	0	0	475	7	0	0	Ventilation Load	0	-335	7.24
Adj Air Trans Heat	0	Ŭ	0	0	0	ŭ	Adj Air Trans Heat	0	0	
Dehumid. Ov Sizing	O		0	0	O	U	Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	U	111	-2.39
Exhaust Heat	U	-62	-62	-1 ·	U	U	OA Preheat Diff.		0	0.00
Sup. Fan Heat		-02	-02	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0;			Additional Reheat		-803	17.36
Duct Heat Pkup		0	0	0 :			System Plenum Heat		164	-3.55
Underfir Sup Ht Pkup	,	•	0	0			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage	•	0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	5,033	1,628	7,136	100.00	4,710	100.00	Grand Total ==>	-3,566	-4,624	100.00

			COOLIN	G COIL SEL	ECTIC	N						
	Total Capacity Sens Cap.			. Coil Airflow Enter DB/			B/WB/HR Leav			ve DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	0.6	7.1	6.5	213	81.5	63.5	59.1	55.1	52.0	53.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	0.6	7.1										

Gre	AREAS	Glass	s (%)	
Floor Part	157 127			Maiı Aux
Int Door ExFIr	0 15			Prei Reh
Roof Wall	157 150	0 0	0 0	Hun Opt
Ext Door	24	0	0	Tota

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

174F-CORRIDOR

	COOLING C	OIL PEAK		(CLG SPACE	PEAK		HEATING CO	IL PEAK	
	d at Time: utside Air:	Mo/H OADB/WB/HF	r: 8 / 16 R: 93 / 77 / 1	18	Mo/Hr: OADB:			Mo/Hr: He OADB: 38	ating Design	
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percen
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	į.	Btu/h	Btu/h	(%
Envelope Loads				(,,,		(70)	Envelope Loads			(//
Skylite Solar	0	0	0	0 :	0	0		0	0	0.0
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.0
Roof Cond	0	2,771	2,771	32	0	0	Roof Cond	0	-706	11.3
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.0
Glass/Door Cond	0	0	0	0 :	0	0	Glass/Door Cond	0	0	0.0
Wall Cond	0	0	0	0 ;	0	0	Wall Cond	0	0	0.0
Partition/Door	4,136		4,136	48	4,136	77	Partition/Door	-4,136	-4,136	66.4
Floor	0		0	0 :	0.00	0	Floor	0	0	0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0
Infiltration	0		0	0	0	0	Infiltration	0	0	0.0
Sub Total ==>	4,136	2,771	6,906	79	4,136	77	Sub Total ==>	-4,136	-4,842	77.7
Internal Loads							Internal Loads			
Lights	721	180	901	10	721	13	Lights	0	0	0.0
People	0	0	0	0 :	0	0		0	0	0.0
Misc	0	0	0	0	0	0	Misc	0	0	0.0
Sub Total ==>	721	180	901	10	721	13	Sub Total ==>	0	0	0.0
Ceiling Load	411	-411	0	0	509	9	Ceiling Load	-883	0	0.0
Ventilation Load	0	0	986	11	0		Ventilation Load	0	-563	9.0
Adj Air Trans Heat	0		0	0	0		Adj Air Trans Heat	0	0	
Dehumid. Ov Sizing			0	0	ŭ	·	Ov/Undr Sizing	0	0	0.0
Ov/Undr Sizing	0		0	0:	0	٥	Exhaust Heat	· ·	186	-2.9
Exhaust Heat	U	-87	-87	-1 :	0	U	OA Preheat Diff.		0	0.0
Sup. Fan Heat		.	0	0			RA Preheat Diff.		0	0.0
Ret. Fan Heat		0	0	0			Additional Reheat		-793	12.
Duct Heat Pkup		0	0	0			System Plenum Heat		-212	3.4
Jnderfir Sup Ht Pku	q	•	0	0:			Underfir Sup Ht Pkup		0	0.0
Supply Air Leakage	r	0	0	0			Supply Air Leakage		0	0.0
Grand Total ==>	5,268	2,453	8,707	100.00	5,365	100.00	Grand Total ==>	-5,019	-6,224	100.0

			COOLIN	G COIL SEL	ECTIO	N					
	Total (Total Capacity Sens Cap.		Total Capacity Sens Cap. Coil Airflow Enter D			ter DB/W	DB/WB/HR Leave DE			3/WB/HR
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	0.7	8.7	8.0	243	80.8	63.7	61.2	55.1	51.4	50.6	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	0.7	8.7									

	AREAS	;		
Gr	oss Total	Glass	3	
		ft²	(%)	
Floor	264			Mai
Part	513			Aux
Int Door	0			Prei
ExFlr	0			Reh
Roof	264	0	0	Hun
Wall	0	0	0	Opt
Ext Door	0	0	0	Tota

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175A-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peaked	d at Time:	Mo/Hr	: 8 / 15		Mo/Hr:	6 / 16		Mo/Hr: He	eating Design	
Ou	utside Air:	OADB/WB/HR	: 93 / 77 / 1	14	OADB:	94		OADB: 38	3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	· i	Btu/h	Btu/h	(%)
Envelope Loads				` (;		` '	Envelope Loads			
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	873	873	28	0	0	Roof Cond	0	-214	14.9
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.0
Wall Cond	0	0	0	0 :	0	0	Wall Cond	0	0	0.00
Partition/Door	739		739	23	739	39	Partition/Door	-739	-739	51.48
Floor	0		0	0 :	0.00	0	Floor	0	0	0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0
Infiltration	0		0	0	0	0	Infiltration	0	0	0.0
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.3
Internal Loads							Internal Loads			
Lights	218	55	273	9	218	11	Lights	0	0	0.00
People	450	0	450	14		13	. 5	0	0	0.00
Misc	546	0	546	17	546	29		0	0	0.0
Sub Total ==>	1,215	55	1,269	40	1,015	53	!	0	0	0.0
Ceiling Load	119	-119	0	0	154	8	Ceiling Load	-268	0	0.0
Ventilation Load	0	0	287	9 :	0		Ventilation Load	0	-171	11.8
Adj Air Trans Heat	0	O	0	0:	0	-	Adj Air Trans Heat	0	0	
•	U		-		U	U	Ov/Undr Sizing	0	0	0.0
Dehumid. Ov Sizing Ov/Undr Sizing			0	0 ;	0	•	Exhaust Heat	U	56	-3.9
Exhaust Heat	0	-25	0 -25	0 ; -1 ;	0	0	OA Preheat Diff.		0	-3.9 0.0
Exnaust neat Sup. Fan Heat		-23	-25 0	0:			RA Preheat Diff.		0	0.0
Sup. ran neat Ret. Fan Heat		0	0	0:			Additional Reheat		-302	21.0
Ret. Fan Heat Duct Heat Pkup		0 0	0	0:			System Plenum Heat		-302 -66	4.6
•	_	U	0	0:			. -		0	0.0
Underfir Sup Ht Pku Supply Air Leakage	μ	0	0	0			Underfir Sup Ht Pkup Supply Air Leakage		0	0.0
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.0

			COOLIN	G COIL SEL	ECTIC	N						
	Total (Total Capacity Sens Cap.			Coil Airflow Enter DB/WB/HR					Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	0.3	3.1										

	AREAS	3		
Gros	ss Total	Glass ft ²	; (%)	
Floor Part	80 92			Ma
Int Door ExFIr	0 0			Pr Re
Roof Wall	80 0	0 0	0 0	Hu
Ext Door	0	0	0	To

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175B-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
	d at Time:		r: 8 / 15	:	Mo/Hr:		1		ating Design	
Οι	utside Air:	OADB/WB/HF	R: 93 / 77 / 1	114	OADB:	94	1 1 1	OADB: 38	3	
	Space	Plenum	Net	Percent	Space	Percent	t contract to the contract to	Space Peak	Coil Peak	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total	· ·	Space Sens	Tot Sens	
Familiana Lagda	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads Skylite Solar	0	0	0	0	0	0	Envelope Loads Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	873	873	28	0	0		0	-214	15.00
Glass Solar	0	0	0/3	0	0	0		0	-214	0.00
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00
Wall Cond	0	0	0	0	0	0		0	0	0.00
Partition/Door	732	· ·	732	23	732	38		-732	-732	51.30
Floor	0		0	0	0.00	0		0	0	0.00
Adiacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Infiltration	0.00	0.00	0.00	0.00	0.00	0.00	,	0.00	0.00	0.00
Sub Total ==>	732	873	1,605	51	732	38	Sub Total ==>	-732	-946	66.30
			,	1			Later and Lands			
Internal Loads				:			Internal Loads			
Lights	218	55	273	9 :	218	11	Lights	0	0	0.00
People	450	0	450	14	250	13	People	0	0	0.00
Misc	546	0	546	17	546	29	Misc	0	0	0.00
Sub Total ==>	1,215	55	1,269	40	1,015	53	Sub Total ==>	0	0	0.00
Ceiling Load	119	-119	0	0 :	154	8	Ceiling Load	-268	0	0.00
Ventilation Load	0	0	287	9	0	0	Ventilation Load	0	-171	11.97
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0 :			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		56	-3.95
Exhaust Heat	_	-25	-25	-1	•	-	OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0			Additional Reheat		-300	21.05
Duct Heat Pkup		0	0	0 :			System Plenum Heat		-66	4.64
Underfir Sup Ht Pku	р		0	0 :			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage	-	0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	2,065	784	3,136	100.00	1,900	100.00	Grand Total ==>	-999	-1,426	100.00

			COOLIN	G COIL SEL	ECTIC	N					
	Total (Capacity	Sens Cap.	Coil Airflow	Coil Airflow Enter DB/WB/HR				Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	0.3	3.1									

	AREAS	3						
Gross Total Glass ft ² (%)								
Floor	80							
Part	91							
Int Door	0							
ExFlr	0							
Roof	80	0	0					
Wall	0	0	0					
Ext Door	0	0	0					

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175C-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING COIL PEAK		
Peake	d at Time:	Mo/H	r: 8 / 15		Mo/Hr:	6 / 16	,	Mo/Hr: He	ating Design	
0	utside Air:	OADB/WB/HF	R: 93 / 77 / 1	14	OADB:	94	· ·	OADB: 38	3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	!	Btu/h	Btu/h	(%)
Envelope Loads				(70)		(70)	Envelope Loads			(70)
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	873	873	28	0	0	Roof Cond	0	-214	14.91
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0	0 :	0	0		0	0	0.00
Wall Cond	0	0	0	0 :	0	0	Wall Cond	0	0	0.00
Partition/Door	739		739	23	739	39		-739	-739	51.48
Floor	0		0	0 :	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	0		0	0	0	0	Infiltration	0	0	0.00
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.39
Internal Loads							Internal Loads			
Lights	218	55	273	9 :	218	11	Lights	0	0	0.00
People	450	0	450	14	250	13		0	0	0.00
Misc	546	0	546	17	546	29		0	0	0.00
Sub Total ==>	1,215	55	1,269	40	1,015	53		0	0	0.00
	, -		,		,-					
Ceiling Load	119	-119	0	0	154	8	Ceiling Load	-268	0	0.00
Ventilation Load	0	0	287	9 :	0	0	Ventilation Load	0	-171	11.89
Adj Air Trans Heat	0		0	0 :	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0 :			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		56	-3.92
Exhaust Heat		-25	-25	-1			OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0 :			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0:			Additional Reheat		-302	21.03
Duct Heat Pkup		0	0	0 :			System Plenum Heat		-66	4.61
Underfir Sup Ht Pku	р		0	0			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.00

			COOLIN	G COIL SEL	ECTIC	N					
	Total (Capacity	Sens Cap.	Coil Airflow	Coil Airflow Enter DB/WB/HR				Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	0.3	3.1									

Gro	AREAS	Glass	s (%)
Floor	80		
Part	92		
Int Door	0		
ExFlr	0		
Roof	80	0	0
Wall	0	0	0
Ext Door	0	0	0

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175D-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING COIL PEAK			
Peaked	d at Time:	Mo/Hr	: 8 / 15		Mo/Hr:	6 / 16		Mo/Hr: He	eating Design		
Ou	utside Air:	OADB/WB/HR	: 93 / 77 / 1	14	OADB:	94		OADB: 38	3		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens		
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	· i	Btu/h	Btu/h	(%)	
Envelope Loads				` (;		` '	Envelope Loads				
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00	
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.00	
Roof Cond	0	873	873	28	0	0	Roof Cond	0	-214	14.9	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.0	
Wall Cond	0	0	0	0 :	0	0	Wall Cond	0	0	0.00	
Partition/Door	739		739	23	739	39	Partition/Door	-739	-739	51.48	
Floor	0		0	0 :	0.00	0	Floor	0	0	0.0	
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0	
Infiltration	0		0	0	0	0	Infiltration	0	0	0.0	
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.3	
Internal Loads							Internal Loads				
Lights	218	55	273	9	218	11	Lights	0	0	0.00	
People	450	0	450	14		13	. 5	0	0	0.00	
Misc	546	0	546	17	546	29		0	0	0.0	
Sub Total ==>	1,215	55	1,269	40	1,015	53	!	0	0	0.0	
Ceiling Load	119	-119	0	0	154	8	Ceiling Load	-268	0	0.0	
Ventilation Load	0	0	287	9 :	0		Ventilation Load	0	-171	11.8	
Adj Air Trans Heat	0	O	0	0:	0	-	Adj Air Trans Heat	0	0		
•	U		-		U	U	Ov/Undr Sizing	0	0	0.0	
Dehumid. Ov Sizing Ov/Undr Sizing			0	0 ;	0	•	Exhaust Heat	U	56	-3.9	
Exhaust Heat	0	-25	0 -25	0 ; -1 ;	0	0	OA Preheat Diff.		0	-3.9 0.0	
Exnaust neat Sup. Fan Heat		-23	-25 0	0:			RA Preheat Diff.		0	0.0	
Sup. ran neat Ret. Fan Heat		0	0	0:			Additional Reheat		-302	21.0	
Ret. Fan Heat Duct Heat Pkup		0 0	0	0:			System Plenum Heat		-302 -66	4.6	
•	_	U	0	0:			. -		0	0.0	
Underfir Sup Ht Pku Supply Air Leakage	μ	0	0	0			Underfir Sup Ht Pkup Supply Air Leakage		0	0.0	
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.0	

	COOLING COIL SELECTION											
	Total (Total Capacity Sens Cap. Co			Ent	er DB/W	/B/HR	Leave DB/WB/HR				
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	0.3	3.1										

(AREAS Gross Total	Glass	s (%)	
Floor Part	80 92			Main H
Int Door ExFIr	0 0			Prehea Rehea
Roof Wall	80 0	0 0	0 0	Humid Opt Ve
Ext Door	0	0	0	Total

HE Htg ltg at dif ent

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175-ELEC

	COOLING C	OIL PEAK			CLG SPACE	: PEAK		HEATING CO		
	red at Time:	,	Hr: 6 / 18	:	Mo/Hr:				eating Design	
(Outside Air:	OADB/WB/HF	₹: 91 / 74 / 1	00	OADB:	88	1 1 1	OADB: 38	}	
	Space	Plenum	Net	Percent	Space	Percent	i .	Space Peak	Coil Peak	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total	1	Space Sens	Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads					_		Envelope Loads	_	_	
Skylite Solar	0	0	0	0	0	0	,	0	0	
Skylite Cond	0	0	0	0	0	0		0	0	0.0
Roof Cond	0	418	418	18	0	0		0	-123	
Glass Solar	0	0	0	0 ;	0	0		0	0	
Glass/Door Cond		0	0	0 ;	0	0		0	0	0.0
Wall Cond	571	121	692	29 ;	576	32		-524	-612	
Partition/Door	674		674	28	728	40		-1,657	-1,657	
Floor	0		0	0	0.00	0		-75	-75	
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
Infiltration	0		0	0 :	0	0	Infiltration	0	0	
Sub Total ==>	1,245	539	1,784	75	1,304	72	Sub Total ==>	-2,256	-2,467	87.6
Internal Loads						1	Internal Loads			
Lights	126	31	157	7	126	7	Lights	0	0	0.0
People	0	0	0	0	0	0	9	0	0	
Misc	314	0	314	13	314	17		Ő	0	
Sub Total ==>	440	31	471	20	440	24		0	0	
Ceiling Load	78	-78	0	0	62	3	Ceiling Load	-154	0	0.0
Ventilation Load	78 0	-78 0	131	6:	0		Ventilation Load	-134	-98	
Adi Air Trans Heat		U				- ,	1	0	-96	
	•		0	0	0		Adj Air Trans Heat	-	-	
Dehumid. Ov Sizin	•		0	0 ;	_		Ov/Undr Sizing	0	0	
Ov/Undr Sizing	0	40	0	0 :	0	0 '	Exhaust Heat		32	
Exhaust Heat		-16	-16	-1 :			OA Preheat Diff.		0	0
Sup. Fan Heat		•	0	0:			RA Preheat Diff.		0	
Ret. Fan Heat		0	0	0 :			Additional Reheat		-328	
Duct Heat Pkup		0	0	0		1	System Plenum Heat		45	
Underfir Sup Ht Pk	•		0	0		4	Underfir Sup Ht Pkup		0	• • • • • • • • • • • • • • • • • • • •
Supply Air Leakage	е	0	0	0		:	Supply Air Leakage		0	0.0
Grand Total ==>	1,763	475	2,369	100.00	1,806	100.00	Grand Total ==>	-2,410	-2,816	100.

	COOLING COIL SELECTION										
	Total C	Capacity	Sens Cap.	Coil Airflow	Coil Airflow Enter DB/WB/HR				Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	0.2	2.4	2.3	82	80.7	63.1	58.6	55.1	53.2	57.8	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	0.2	2.4									

Gı	AREAS ross Total	Glass	s (%)	
Floor Part	46 128			Main H Aux Ht
Int Door ExFlr	0 5			Preheat Reheat
Roof Wall	46 47	0 0	0 0	Humid Opt Ve
Ext Door	0	0	0	Total

HE Htg ltg at dif ent

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

174E-OFFICE

	COOLING C	COIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
	d at Time:		r: 6 / 17	. :	Mo/Hr:				eating Design	
Ot	utside Air:	OADB/WB/HF	R: 93 / 75 / 1	01	OADB:	88	1 1 1	OADB: 38	3	
	Space	Plenum	Net	Percent	Space	Percent	t contract to the contract to	Space Peak	Coil Peak	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total	· ·	Space Sens	Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads	0	0	0	0	0	0	Envelope Loads	0	0	0.00
Skylite Solar	0	0	0	0:	0	0	Skylite Solar	0	0	0.00
Skylite Cond Roof Cond	0	-	1.618		0	0	Skylite Cond Roof Cond	0	-420	9.08
Glass Solar	0	1,618 0	,	23	0	0		0	-420 0	9.08
Glass Solar Glass/Door Cond	183	0	0 183		154	3		-305	•	6.60
Wall Cond	1.135	260	1,395	3 ; 20 :	1,325	3 28		-305 -1.484	-305 -1.784	38.59
Partition/Door	1,135	200	1,020	20 , 14 :	1,020	20		-1,464 -1,020	-1,764	22.05
Floor	1,020		1,020	0:	0.00	0		-1,020 -232	-1,020	5.02
	0.00	0.00	-	- · · · · · · · · · · · · · · · · · · ·		-		0.00	0.00	0.00
Adjacent Floor		0.00	0.00	0.00	0.00	0.00				
Infiltration	0		0	0 ;	0	0	1	0	0	0.00
Sub Total ==>	2,338	1,878	4,215	59	2,499	53	Sub Total ==>	-3,041	-3,761	81.34
Internal Loads				:			Internal Loads			
Lights	429	107	536	8	429	9	Lights	0	0	0.00
People	900	0	900	13	500	11	People	0	0	0.00
Misc	1,072	0	1,072	15	1,072	23	Misc	0	0	0.00
	,		•		•			_	-	
Sub Total ==>	2,400	107	2,508	35	2,000	42	Sub Total ==>	0	0	0.00
Ceiling Load	295	-295	0	0	211	4	Ceiling Load	-525	0	0.00
Ventilation Load	0	0	475	7 :	0	0	Ventilation Load	0	-335	7.24
Adj Air Trans Heat	0		0	0:	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0 :			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		111	-2.39
Exhaust Heat	Ü	-62	-62	-1	· ·	Ū	OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0:			Additional Reheat		-803	17.36
Duct Heat Pkup		0	0	0			System Plenum Heat		164	-3.55
Underfir Sup Ht Pkuj	р		0	0:			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage	•	0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	5,033	1,628	7,136	100.00	4,710	100.00	Grand Total ==>	-3,566	-4,624	100.00

			COOLIN	G COIL SELE	CTIO	N				
	Total (Total Capacity Sens Cap. Coil Airflow Enter DB/WB/HR								
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.6	7.1	6.5	213	81.5	63.5	59.1	55.1	52.0	53.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.6	7.1								

G	AREAS Gross Total	Glass	s (%)	
Floor Part	157 127			Main H Aux Ht
Int Door ExFIr	0 15			Prehea Reheat
Roof Wall	157 150	0 0	0 0	Humid Opt Ve
Ext Door	24	0	0	Total

HE Htg ltg at dif

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

174F-CORRIDOR

(COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
	at Time: tside Air:	Mo/Hi OADB/WB/HF	r: 8 / 16 R: 93 / 77 / 1	18	Mo/Hr: OADB:			Mo/Hr: He OADB: 38	eating Design 3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · · · · · · · · · · · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	! !	Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	,	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	2,771	2,771	32	0	0		0	-706	11.34
Glass Solar	0	0	0	0 ;	0	0		0	0	0.00
Glass/Door Cond	0	0	0	0 ;	0	0		0	0	0.00
Wall Cond	0	0	0	0 ;	0	0	-	0	0	0.00
Partition/Door	4,136		4,136	48	4,136	77		-4,136	-4,136	66.44
Floor	0		0	0	0.00	0		0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Infiltration	0		0	0	0	0	Infiltration	0	0	0.00
Sub Total ==>	4,136	2,771	6,906	79	4,136	77	Sub Total ==>	-4,136	-4,842	77.79
Internal Loads				:			Internal Loads			
Lights	721	180	901	10	721	13	Lights	0	0	0.00
People	0	0	0	0	0	0		0	0	0.00
Misc	0	0	0	0 :	0	0	Misc	0	0	0.00
Sub Total ==>	721	180	901	10	721	13	Sub Total ==>	0	0	0.00
Ceiling Load	411	-411	0	0 :	509	9	Ceiling Load	-883	0	0.00
Ventilation Load	0	0	986	11	0	0	Ventilation Load	0	-563	9.05
Adj Air Trans Heat	0	ŭ	0	0	0	-	Adj Air Trans Heat	0	0	(
Dehumid. Ov Sizing	O		0	0	Ū	· ·	Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0:	0	0	Exhaust Heat	· ·	186	-2.99
Exhaust Heat	U	-87	-87	-1	U	U	OA Preheat Diff.		0	0.00
Sup. Fan Heat		-01	0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0;			Additional Reheat		-793	12.74
Duct Heat Pkup		0	0	0;			System Plenum Heat		-212	3.4
Underfir Sup Ht Pkup	•	v	0	0:			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0	o :			Supply Air Leakage		0	0.00
Grand Total ==>	5,268	2,453	8,707	100.00	5,365	100.00	Grand Total ==>	-5,019	-6,224	100.00

			COOLIN	G COIL SELE	CTIO	N				
	Total (Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	En °F		/WB/HR gr/lb	Lea °F		/WB/HR gr/lb
Main Clg Aux Clg	0.7 0.0	8.7 0.0	8.0 0.0	243 0	80.8 0.0	63.7 0.0	61.2 0.0	55.1 0.0	51.4 0.0	50.6 0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	8.7								

Gro	AREAS	Glass	; (%)	
Floor Part	264 513			M: At
Int Door ExFIr	0 0			Pr Re
Roof Wall	264 0	0 0	0 0	Hi Oi
Ext Door	0	0	0	To

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175A-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peaked	d at Time:	Mo/Hr	: 8 / 15		Mo/Hr:	6 / 16		Mo/Hr: He	eating Design	
Ou	utside Air:	OADB/WB/HR	: 93 / 77 / 1	14	OADB:	94		OADB: 38	3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	· ·	Btu/h	Btu/h	(%)
Envelope Loads				` (` '	Envelope Loads			•
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.0
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.0
Roof Cond	0	873	873	28	0	0	Roof Cond	0	-214	14.9
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.0
Glass/Door Cond	0	0	0	0 :	0	0	Glass/Door Cond	0	0	0.0
Wall Cond	0	0	0	0 :	0	0	Wall Cond	0	0	0.0
Partition/Door	739		739	23	739	39	Partition/Door	-739	-739	51.4
Floor	0		0	0 :	0.00	0	Floor	0	0	0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0
Infiltration	0		0	0	0	0	Infiltration	0	0	0.0
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.3
Internal Loads							Internal Loads			
Lights	218	55	273	9	218	11	Lights	0	0	0.0
People	450	0	450	14		13	. 5	0	0	0.0
Misc	546	0	546	17	546	29		0	0	0.0
Sub Total ==>	1,215	55	1,269	40	1,015	53	!	0	0	0.0
Ceiling Load	119	-119	0	0	154	8	Ceiling Load	-268	0	0.0
Ventilation Load	0	0	287	9	0		Ventilation Load	0	-171	11.8
Adj Air Trans Heat	0	Ŭ	0	0	0	-	Adj Air Trans Heat	0	0	
Dehumid. Ov Sizing	U		0	0	U	U	Ov/Undr Sizing	0	0	0.0
Ov/Undr Sizing	0		0	0 :	0	^	Exhaust Heat	U	56	-3.9
Exhaust Heat	0	-25	-25	-1 :	0	U	OA Preheat Diff.		0	0.0
Sup. Fan Heat		-25	-23	0:			RA Preheat Diff.		0	0.0
Ret. Fan Heat		0	0	0;			Additional Reheat		-302	21.0
Duct Heat Pkup		0	0	0:			System Plenum Heat		-302 -66	4.6
Underfir Sup Ht Pku	_	U	0	0:			Underfir Sup Ht Pkup		0	0.0
Supply Air Leakage	μ	0	0	0			Supply Air Leakage		0	0.0
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.0

			COOLIN	G COIL SELE	CTIO	N						
	Total Capacity Sens Cap. Coil Airflow Enter DB/WB/HR								Leave DB/WB/HR			
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	0.3	3.1										

	AREAS	3		
Gro	oss Total	Glass	-	
		ft²	(%)	
Floor	80			H
Part	92			
Int Door	0			H
ExFlr	0			H
Roof	80	0	0	H
Wall	0	0	0	
Ext Door	0	0	0	

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175B-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peake	d at Time:	Mo/H	r: 8 / 15		Mo/Hr:	6 / 16	•	Mo/Hr: He	ating Design	
0	utside Air:	OADB/WB/HF	R: 93 / 77 / 1	14	OADB:	94	1 1 1	OADB: 38		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · · · · · · · · · · · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	•	Btu/h	Btu/h	(%)
Envelope Loads				` (;		` ,	Envelope Loads			`
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0		0	0	0.00
Roof Cond	0	873	873	28	0	0	,	0	-214	15.00
Glass Solar	0	0	0	0 ;	0	0	,	0	0	0.00
Glass/Door Cond	0	0	0	0 :	0	0		0	0	0.00
Wall Cond	0	0	0	0 ;	0	0	-	0	0	0.00
Partition/Door	732		732	23	732	38		-732	-732	51.30
Floor	0		0	0	0.00	0		0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	, ,	0.00	0.00	0.00
Infiltration	0		0	0 ;	0	0	Infiltration	0	0	0.00
Sub Total ==>	732	873	1,605	51	732	38	Sub Total ==>	-732	-946	66.30
Internal Loads				:			Internal Loads			
Lights	218	55	273	9	218	11	Lights	0	0	0.00
People	450	0	450	14	250	13		0	0	0.00
Misc	546	0	546	17	546	29		0	0	0.00
Sub Total ==>	1,215	55	1,269	40	1,015	53	•	0	0	0.00
Cub rotar	.,		,,200		.,0.0		, cab rotar	ŭ	ŭ	0.00
Ceiling Load	119	-119	0	0 :	154	8	Ceiling Load	-268	0	0.00
Ventilation Load	0	0	287	9	0	0	Ventilation Load	0	-171	11.97
Adj Air Trans Heat	0		0	0 :	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0 :			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		56	-3.95
Exhaust Heat	ŭ	-25	-25	-1	ŭ	·	OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0:			Additional Reheat		-300	21.05
Duct Heat Pkup		0	0	0:			System Plenum Heat		-66	4.64
Underfir Sup Ht Pku	р		0	0 :			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage	•	0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	2,065	784	3,136	100.00	1,900	100.00	Grand Total ==>	-999	-1,426	100.00

			COOLIN	G COIL SELE	CTIO	N						
	Total Capacity Sens Cap. Coil Airflow Enter DB/WB/HR								Leave DB/WB/HR			
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		
Total	0.3	3.1										

Gre	AREAS oss Total	Glass	s (%)
Floor	80		
Part	91		
Int Door	0		
ExFlr	0		
Roof	80	0	0
Wall	0	0	0
Ext Door	0	0	0

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175C-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peake	d at Time:	Mo/H	r: 8 / 15		Mo/Hr:	6 / 16	•	Mo/Hr: He	ating Design	
0	utside Air:	OADB/WB/HF	R: 93 / 77 / 1	14	OADB:	94	1 1 1	OADB: 38		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · · · · · · · · · · · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	•	Btu/h	Btu/h	(%)
Envelope Loads				` (;		` ,	Envelope Loads			`
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0		0	0	0.00
Roof Cond	0	873	873	28	0	0	,	0	-214	14.91
Glass Solar	0	0	0	0 ;	0	0	,	0	0	0.00
Glass/Door Cond	0	0	0	0 :	0	0		0	0	0.00
Wall Cond	0	0	0	0 :	0	0	-	0	0	0.00
Partition/Door	739		739	23	739	39		-739	-739	51.48
Floor	0		0	0	0.00	0		0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	, ,	0.00	0.00	0.00
Infiltration	0		0	0 :	0	0	Infiltration	0	0	0.00
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.39
Internal Loads							Internal Loads			
Lights	218	55	273	9	218	11	Lights	0	0	0.00
People	450	0	450	14	250	13		0	0	0.00
Misc	546	0	546	17	546	29		0	0	0.00
Sub Total ==>	1,215	55	1,269	40	1,015	53	•	0	0	0.00
						_	· ·	000		
Ceiling Load	119	-119	0	0	154		Ceiling Load	-268	0	0.00
Ventilation Load	0	0	287	9 ;	0	0	l .	0	-171	11.89
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00
Ov/Undr Sizing	0		0	0 ;	0	0	Exhaust Heat		56	-3.92
Exhaust Heat		-25	-25	-1 :			OA Preheat Diff.		0	0.00
Sup. Fan Heat			0	0 :			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0			Additional Reheat		-302	21.03
Duct Heat Pkup		0	0	0			System Plenum Heat		-66	4.61
Underfir Sup Ht Pku	р		0	0			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.00

			COOLIN	G COIL SELE	CTIO	N				
		Capacity	•	Sens Cap. Coil Airflow			/WB/HR	Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.3	3.1								

	AREAS	;	
Gro	ss Total	Glas	-
		ft²	(%)
Floor	80		
Part	92		
Int Door	0		
ExFlr	0		
Roof	80	0	0
Wall	0	0	0
Ext Door	0	0	0

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175D-OFFICE

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peaked	d at Time:	Mo/Hr	: 8 / 15		Mo/Hr:	6 / 16		Mo/Hr: He	eating Design	
Ou	utside Air:	OADB/WB/HR	: 93 / 77 / 1	14	OADB:	94		OADB: 38	3	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	· ·	Btu/h	Btu/h	(%)
Envelope Loads				` (` '	Envelope Loads			•
Skylite Solar	0	0	0	0 :	0	0	Skylite Solar	0	0	0.0
Skylite Cond	0	0	0	0 :	0	0	Skylite Cond	0	0	0.0
Roof Cond	0	873	873	28	0	0	Roof Cond	0	-214	14.9
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.0
Glass/Door Cond	0	0	0	0 :	0	0	Glass/Door Cond	0	0	0.0
Wall Cond	0	0	0	0 :	0	0	Wall Cond	0	0	0.0
Partition/Door	739		739	23	739	39	Partition/Door	-739	-739	51.4
Floor	0		0	0 :	0.00	0	Floor	0	0	0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.0
Infiltration	0		0	0	0	0	Infiltration	0	0	0.0
Sub Total ==>	739	873	1,612	51	739	39	Sub Total ==>	-739	-953	66.3
Internal Loads							Internal Loads			
Lights	218	55	273	9	218	11	Lights	0	0	0.0
People	450	0	450	14		13	. 5	0	0	0.0
Misc	546	0	546	17	546	29		0	0	0.0
Sub Total ==>	1,215	55	1,269	40	1,015	53	!	0	0	0.0
Ceiling Load	119	-119	0	0	154	8	Ceiling Load	-268	0	0.0
Ventilation Load	0	0	287	9	0		Ventilation Load	0	-171	11.8
Adj Air Trans Heat	0	Ŭ	0	0	0	-	Adj Air Trans Heat	0	0	
Dehumid. Ov Sizing	U		0	0	U	U	Ov/Undr Sizing	0	0	0.0
Ov/Undr Sizing	0		0	0 :	0	^	Exhaust Heat	U	56	-3.9
Exhaust Heat	0	-25	-25	-1 :	0	U	OA Preheat Diff.		0	0.0
Sup. Fan Heat		-25	-23	0:			RA Preheat Diff.		0	0.0
Ret. Fan Heat		0	0	0;			Additional Reheat		-302	21.0
Duct Heat Pkup		0	0	0:			System Plenum Heat		-302 -66	4.6
Underfir Sup Ht Pku	_	U	0	0:			Underfir Sup Ht Pkup		0	0.0
Supply Air Leakage	μ	0	0	0			Supply Air Leakage		0	0.0
Grand Total ==>	2,072	784	3,143	100.00	1,907	100.00	Grand Total ==>	-1,006	-1,435	100.0

			COOLIN	G COIL SELE	CTIO	N				
		Capacity	•	Sens Cap. Coil Airflow			/WB/HR	Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	3.1	2.8	86	80.4	63.4	60.4	55.1	50.8	48.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.3	3.1								

Cros	AREAS	Glass	_	
Gros	ss iotai	ft ²	(%)	
Floor	80			М
Part	92			Α
Int Door	0			P
ExFlr	0			R
Roof	80	0	0	Н
Wall	0	0	0	0
Ext Door	0	0	0	Te

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

175-ELEC

(COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	IL PEAK	
Peaked	l at Time:	Mo/Hı	: 6 / 18		Mo/Hr:	6 / 19		Mo/Hr: He	eating Design	
Ou	itside Air:	OADB/WB/HR	: 91 / 74 / 1	00	OADB:	88		OADB: 38	3	
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percen
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%
Envelope Loads	•	•	•		•		Envelope Loads	•		
Skylite Solar	0	0	0	0 :	0	0		0	0	0.0
Skylite Cond	0	0	0	0	0	0		0	0	0.0
Roof Cond	0	418	418	18	0	0		0	-123	4.3
Glass Solar	0	0	0	0 ;	0	0 ;		0	0	0.0
Glass/Door Cond	_0	0	0	0 :	0	0 :		0	0	0.0
Wall Cond	571	121	692	29 ;	576	32		-524	-612	21.7
Partition/Door	674		674	28	728	40		-1,657	-1,657	58.8
Floor	0		0	0	0.00	0		-75	-75	2.6
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	,	0.00	0.00	0.0
Infiltration	0		0	0 ;	0	0		0	0	0.
Sub Total ==>	1,245	539	1,784	75	1,304	72	Sub Total ==>	-2,256	-2,467	87.6
Internal Loads				:			Internal Loads			
Lights	126	31	157	7:	126	7	Lights	0	0	0.0
People	0	0	0	0 :	0	0		0	0	0.0
Misc	314	0	314	13	314	17	Misc	0	0	0.0
Sub Total ==>	440	31	471	20	440	24	Sub Total ==>	0	0	0.
Ceiling Load	78	-78	0	0	62	3	Ceiling Load	-154	0	0.
Ventilation Load	0	0	131	6	0		Ventilation Load	0	-98	3.4
Adj Air Trans Heat	0	O	0	0:	0	- ,	Adj Air Trans Heat	0	0	0.
Dehumid. Ov Sizing	U				U	U :	Ov/Undr Sizing	0	0	0.
Ov/Undr Sizing	0		0	0 :	0	0	Exhaust Heat	U	32	-1.
Exhaust Heat	0	-16	0 -16	0 : -1 :	0	U	OA Preheat Diff.		0	0.
Sup. Fan Heat		-10	-10	0		:	RA Preheat Diff.		0	0.
Ret. Fan Heat		0	0	0:			Additional Reheat		-328	11.
		0	0	0:			System Plenum Heat		-328 45	-1.
Duct Heat Pkup Underfir Sup Ht Pkup	_	U	0	0:			Underfir Sup Ht Pkup		0	0.
	,	0	0	0					0	
Supply Air Leakage		U	Ü	U			Supply Air Leakage		0	0.0
Grand Total ==>	1,763	475	2,369	100.00	1,806	100.00	Grand Total ==>	-2,410	-2,816	100.

			COOLIN	G COIL SELE	CTIO	N				
	Total (Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F °F gr/lb			Leave DB/WB/ °F °F gr		
Main Ola							Ū			Ū
Main Clg Aux Clg	0.2 0.0	2.4 0.0	2.3 0.0	82 0	80.7 0.0	0.0	58.6 0.0	0.0	53.2 0.0	57.8 0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.2	2.4								

AREAS Gross Total Glass ft² (%)								
Floor Part	46 128			Mair Aux				
Int Door ExFIr	0 5			Preh Reh				
Roof Wall	46 47	0 0	0 0	Hum Opt				
Ext Door	0	0	0	Tota				

Main Htg Aux Htg Preheat Reheat Humidif Opt Vent Total

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

By RLF

Room Description: 174E-OFFICE

GENERAL INFORMATION

Floor Area: 157 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr:

Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Room Multiplier: 1

Humidistat Location:Room CO2 Sensor Location: None

Room Type:Conditioned

Zone Description: No Zone **PEOPLE**

People Type: General Office Space

of People: 2 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design) Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

01---

Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

AIRFLO

Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

									Jass		
Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft²-°F	Alpha	Type / Energy Type	Area ft²	Shade Coef	U Value Btu/h·ft²·°F	External Shading	In St
Roof - 1	157 ft²	0	90 Steel Sheet, 2* Ins	0.1247	0.90		0			Overhang - None	N
Wall - 1	174 ft²	0	0 8* HW Block	0.4022	0.90						
Opening - 1			Door			Standard Door	24	0.00	0.40	Overhang - None	N
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)			None					
Partition - 1	127 ft ²		8* HW Conc Block	0.4030							
Floor - 1											

22257 UCF B016A F&S Bldg Dept Reno Project Name:

Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

By RLF

Room Description: 174F-CORRIDOR

GENERAL INFORMATION

Floor Area: 264 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr: Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²-°F/Btu Is There Carpet?: YES

Design Clg DB / Drift Point: 75 0 °F / 81 0 °F 70.0 °F / 64.0 °F Design Htg DB / Drift Point:

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1

CO2 Sensor Location: None Room Type:Conditioned Zone Description: No Zone **PEOPLE**

People Type: General Office Space

of People: 0 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design) Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

AIRFLO

AIRFLO

Infil Type: None Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

						Glass		
	Area/	Const Type /	U Value	Type /	Area	Shade U Value	External	In
Description	Amount Dir	r Tilt Schedule	Btu/h·ft²·°F	Alpha Energy Type	ft²	Coef Btu/h·ft²·°	F Shading	SI
Roof - 1	264 ft² (0 90 Steel Sheet, 2* Ins	0.1247	0.90	0		Overhang - None	N
Partition - 1	513 ft ²	8* HW Conc Block	0.4030					

Room Description: 175A-OFFICE Zone Description: No Zone

GENERAL INFORMATION

Floor Area: 80 ft² FIr-FIr Height: 10.0 ft

Height Above FIr: Plenum Height: 2.0 ft Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²·°F/Btu

Is There Carpet?: YES

Design Clg DB / Drift Point:

75.0 °F / 81.0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1

CO2 Sensor Location: None Room Type:Conditioned

PEOPLE People Type: General Office Space

of People: 1 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV

% Load to RA: 20 %

Lighting Schedule: Cooling Only (Design)

Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%) Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow: Vav Sched: Available (100%)

Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

					Glass					
	Area/	Const Type /	U Value	Type /	Area Shade	U Value External	ln			
Description	Amount Di	r Tilt Schedule	Btu/h·ft²·°F	Alpha Energy Typ	e ft² Coef	Btu/h·ft²·°F Shading	Sł			
Roof - 1	80 ft²	0 90 Steel Sheet, 2* Ins	0.1247	0.90	0	Overhang - None	: N			
Misc Load 1	2.00 W/sq ft	Cooling Only (Design)		None						

2.00 W/sq ft Partition - 1 92 ft² 8* HW Conc Block 0.4030

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc Dataset Name:

By RLF

Room Description: 175B-OFFICE

GENERAL INFORMATION

Floor Area: 80 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr:

Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²-°F/Btu Is There Carpet?: YES

Design Clg DB / Drift Point: 75 0 °F / 81 0 °F 70.0 °F / 64.0 °F Design Htg DB / Drift Point:

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1

CO2 Sensor Location: None

Room Type:Conditioned

Zone Description: No Zone **PEOPLE**

People Type: General Office Space

of People: 1 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design) Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

Vent Type: None Vent Value: 0.06 cfm/sq ft

AIRFLO

Vent Schedule: Available (100%) Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

						Glass					
December	Area/	D:-	Const Type /	U Value		Type /	Area	Shade	U Value	External	In
Description	Amount	Dir	Tilt Schedule	Btu/h·ft²·°F	Alpna	Energy Type	π²	Coef	Btu/h·ft²·°F	Shading	Sł
Roof - 1	80 ft²	0	90 Steel Sheet, 2* Ins	0.1247	0.90		0			Overhang - None	Ν
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)			None					

Partition - 1 91 ft² 8* HW Conc Block 0.4030

Room Description: 175C-OFFICE **GENERAL INFORMATION**

Floor Area: 80 ft² FIr-FIr Height: 10.0 ft

Height Above FIr: Plenum Height: 2.0 ft

Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Cpiling R-Value: 1.786 hr·ft²-°F/Btu Is There Carpet?: YES

Design Clg DB / Drift Point: 75 0 °F / 81 0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Partition - 1

Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1

CO2 Sensor Location: None

Room Type:Conditioned

Zone Description: No Zone

People Type: General Office Space

of People: 1 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

PEOPLE

Lighting Type: Recessed fluorescent, not vented, 80% load

to space

Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design)

Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

0.4030

AIRFLO

Cooling Vent Type: None

Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated

Aux Supply: To be calculated Room Exhaust:

Rm Exh Sched: Available (100%)

						Glass					
Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft².°F	Type / Alpha Energy Type	Area	Shade Coef	U Value Btu/h·ft²·°F	External Shading	In St	
Roof - 1	80 ft ²	0	90 Steel Sheet, 2* Ins	0.1247	0.90	0		Dta/II I	Overhang - None	N	
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)		None						

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

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8* HW Conc Block

92 ft²

TRACE®

By RLF

Room Description: 175D-OFFICE

GENERAL INFORMATION

Floor Area: 80 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr: Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Room Multiplier: 1

Humidistat Location:Room CO2 Sensor Location: None

Room Type:Conditioned

PEOPLE

Zone Description: No Zone

People Type: General Office Space # of People: 1 People

People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design) Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

AIRFLO

Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

Infil Type: None Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

								(Glass		
Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft²·°F	Alpha	Type / Energy Type	Area ft²	Shade Coef	U Value Btu/h·ft².°F	External Shading	In St
Roof - 1	80 ft²	0	90 Steel Sheet, 2* Ins	0.1247	0.90		0			Overhang - None	N
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)			None					
Partition - 1	92 ft²		8* HW Conc Block	0.4030							

22257 UCF B016A F&S Bldg Dept Reno Project Name:

Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc

By RLF

Room Description: 175-ELEC

GENERAL INFORMATION

Floor Area: 46 ft² FIr-FIr Height: 10.0 ft

Plenum Height: 2.0 ft Height Above Flr:

Slab Cnstr Type: 4* LW Concrete

Room Mass: Time delay based on actual mass

Ceiling R-Value: 1.786 hr·ft²·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 70.0 °F / 64.0 °F

Design Relative Humidity: 50 % Moisture Capacitance: Medium

Clg Tstat: None Htg Tstat: None

Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1

CO2 Sensor Location: None

Room Type:Conditioned

Zone Description: No Zone **PEOPLE**

People Type: General Office Space

of People: 0 People People Sensible: 250 Btu/h People Latent: 200 Btu/h

People Schedule: Cooling Only (Design)

Workstation: 1.0 workstation/person

LIGHTS

Lighting Type: Recessed fluorescent, not vented, 80% load

to space Fixture Type: RECFL-NV % Load to RA: 20 %

Lighting Schedule: Cooling Only (Design) Lighting Amount: 1.000 W/sq ft

Ballast Factor: 1.0

Cooling

Vent Type: None Vent Value: 0.06 cfm/sq ft Vent Schedule: Available (100%)

AIRFLO

Infil Type: None

Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%)

Vav Airflow:

Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated

Room Exhaust:

Rm Exh Sched: Available (100%)

Description						Glass					
	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft²·°F	Alpha	Type / Energy Type	Area ft²	Shade Coef	U Value Btu/h·ft².°F	External Shading	In St
Roof - 1	46 ft²	0	90 Steel Sheet, 2* Ins	0.1247	0.90		0			Overhang - None	N
Wall - 1	47 ft²	0	0 Frame Wall, No Ins	0.4376	0.90						ŀ
Misc Load 1	2.00 W/sq ft		Cooling Only (Design)			None					ļ
Partition - 1	128 ft²		8* HW Conc Block	0.4030							ļ
Floor - 1											

22257 UCF B016A F&S Bldg Dept Reno Project Name:

Dataset Name: I:\22257\ME\Calculations\Load Calculations\TRACE\22257.trc