



**Robert J. Dole VA Medical Center
Renovate and Modernize HVAC
Systems, Building B6
Wichita, KS**

Mechanical Calculations

Prepared for:

M+HFG
Wichita, KS

PEC Project No.:

180248-000

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Final Construction Documents



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

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Room Checksums

By PEC

002 - BASEMENT

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design						Cooling	Heating		
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7						SADB	55.0	86.4	
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.5	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.1	69.5	
Envelope Loads				Envelope Loads								Ret/OA	80.7	55.1	
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.0	0.0	
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.0	0.0	
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00				Fn Frict	0.0	0.0	
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00				AIRFLOWS			
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00					Diffuser	152	152
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00				Terminal	152	152	
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00				Main Fan	152	152	
Floor	0	0	0	0	0	Floor	0	0.00				Sec Fan	0	0	
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00				Nom Vent	35	35	
Infiltration	1,796	1,796	38	1,163	42	Infiltration	-2,592	51.40				AHU Vent	35	35	
Sub Total ==>	1,796	1,796	38	1,163	42	Sub Total ==>	-2,592	51.40				Infil	39	39	
Internal Loads				Internal Loads								MinStop/Rh	0	0	
Lights	800	200	1,000	21	800	Lights	0	0.00				Return	192	192	
People	0	0	0	0	0	People	0	0.00				Exhaust	74	74	
Misc	500	0	500	11	500	Misc	0	0.00				Rm Exh	0	0	
Sub Total ==>	1,300	200	1,500	32	1,300	Sub Total ==>	0	0.00				Auxiliary	0	0	
Ceiling Load				Ceiling Load								Leakage Dwn	0	0	
Ventilation Load	284	-284	0	0	284	Ventilation Load	-51	0.00				Leakage Ups	0	0	
Adj Air Trans Heat	0	0	1,617	35	0	Adj Air Trans Heat	0	46.26				ENGINEERING CKS			
Dehumid. Ov Sizing	0	0	0	0	0	Dehumid. Ov Sizing	0	0.00					Cooling	Heating	
Ov/Undr Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00				% OA	23.1	23.1	
Exhaust Heat	0	-240	-240	-5	0	Exhaust Heat	43	-0.85				cfm/ft²	0.52	0.52	
Sup. Fan Heat	0	0	0	0	0	OA Preheat Diff.	0	0.00				cfm/ton	391.54		
Ret. Fan Heat	0	0	0	0	0	RA Preheat Diff.	0	0.00				ft²/ton	752.41		
Duct Heat Pkup	0	0	0	0	0	Additional Reheat	0	0.00				Btu/hr-ft²	15.95	-17.21	
Underflr Sup Ht Pkup	0	0	0	0	0	System Plenum Heat	-161	3.20				No. People	0.0	0.0/1000 ft²	
Supply Air Leakage	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00							
						Supply Air Leakage	0	0.00							
Grand Total ==>	3,380	-324	4,673	100.00	2,747	Grand Total ==>	-2,642	100.00							

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Ent	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								
Main Clg	0.4	4.7	3.4	152	80.7	65.2	73.0	55.0	55.0	67.9	Floor	293		Main Htg	-5.0	152	55.1	86.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.4	4.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-5.0			

Room Checksums

By PEC

003 - STORAGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Btu/h	Btu/h				
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	0	0	0	0	0	0	0	0.00						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	1,109		1,109	36	702	43	-1,751	50.47						
<i>Sub Total ==></i>	1,109	0	1,109	36	702	43	-1,751	50.47						
Internal Loads				Internal Loads										
Lights	541	135	676	22	541	33	0	0.00						
People	0	0	0	0	0	0	0	0.00						
Misc	338	0	338	11	338	20	0	0.00						
<i>Sub Total ==></i>	879	135	1,014	33	879	53	0	0.00						
Ceiling Load	72	-72	0	0	71	4	-74	0.00						
Ventilation Load	0	0	998	33	0	0	-1,576	45.42						
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			0	0.00						
Ov/Undr Sizing	0		0	0	0	0	63	-1.82						
Exhaust Heat		-61	-61	-2			0	0.00						
Sup. Fan Heat			0	0			0	0.00						
Ret. Fan Heat		0	0	0			0	0.00						
Duct Heat Pkup		0	0	0			-206	5.92						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	2,060	2	3,061	100.00	1,652	100.00	-1,826	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	78	78
Terminal	78	78
Main Fan	78	78
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	26	26
MinStop/Rh	0	0
Return	104	104
Exhaust	50	50
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	30.5	30.5
cfm/ft²	0.39	0.39
cfm/ton	305.51	
ft²/ton	776.33	
Btu/hr-ft²	15.46	-17.53
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	2.3	78	83.2	66.5	75.7	55.0	53.5	61.9
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	
		ft²	(%)
Floor	198		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-3.5	78	50.1	92.1
Aux Htg	0.0	0	0.0	0.0
Preheat	-0.4	78	50.1	55.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-3.5			

Room Checksums

By PEC

005 - HSKPG

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum		
									Return			Ret/OA		
									Fn MtrTD			Fn BldTD		
									Fn Frict					
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total					
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	(%)					
Envelope Loads														
Skylite Solar	0	0	0	0	0	0	0	0	0.00					
Skylite Cond	0	0	0	0	0	0	0	0	0.00					
Roof Cond	0	0	0	0	0	0	0	0	0.00					
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	0	0	0	0	0	0	0	0	0.00					
Floor	0	0	0	0	0	0	0	0	0.00					
Adjacent Floor	0	0	0	0	0	0	0	0	0.00					
Infiltration	90	0	90	36	57	43	-142	-142	50.47					
Sub Total ==>	90	0	90	36	57	43	-142	-142	50.47					
Internal Loads														
Lights	44	11	55	22	44	33	0	0	0.00					
People	0	0	0	0	0	0	0	0	0.00					
Misc	27	0	27	11	27	20	0	0	0.00					
Sub Total ==>	71	11	82	32	71	53	0	0	0.00					
Ceiling Load	6	-6	0	0	6	4	-6	0	0.00					
Ventilation Load	0	0	81	32	0	0	0	-127	45.42					
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0.00					
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0.00					
Exhaust Heat	0	0	0	0	0	0	0	0	0.00					
Sup. Fan Heat	0	0	0	0	0	0	0	0	0.00					
Ret. Fan Heat	0	0	0	0	0	0	0	0	0.00					
Duct Heat Pkup	0	0	0	0	0	0	0	-12	4.10					
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00					
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00					
Grand Total ==>	166	5	252	100.00	133	100.00	-148	-280	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	6	6
Terminal	6	6
Main Fan	6	6
Sec Fan	0	0
Nom Vent	2	2
AHU Vent	2	2
Infil	2	2
MinStop/Rh	0	0
Return	4	4
Exhaust	0	0
Rm Exh	4	4
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	30.5	30.5
cfm/ft²	0.39	0.39
cfm/ton	299.56	
ft²/ton	761.05	
Btu/hr-ft²	15.77	-17.53
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	0.0	0.3	0.2	6	83.2	66.5	75.7	55.0	53.2	60.7
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	0.0	0.3								

AREAS			
	Gross Total	Glass	(%)
		ft²	
Floor	16		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-0.3	6	50.1	92.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	6	50.1	55.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.3			

Room Checksums

By PEC

007 - STORAGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads												
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	312		312	36	199	44	-495	-495	51.64							
	312	0	312	36	199	44	-495	-495	51.64							
Internal Loads				Internal Loads												
	153	38	191	22	153	34	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	96	0	96	11	96	21	0	0	0.00							
	248	38	287	33	248	55	0	0	0.00							
	1	-1	0	0	1	0	-10	0	0.00							
	0	0	281	32	0	0	0	-446	46.48							
	0		0	0	0	0	0	0	0							
			0	0			0	0	0.00							
	0		0	0	0	0	0	8	-0.85							
		-1	-1	0			0	0	0.00							
			0	0			0	0	0.00							
		0	0	0			0	0	0.00							
		0	0	0			-26	2.73								
			0	0			0	0	0.00							
		0	0	0			0	0	0.00							
Grand Total ==>	562	36	879	100.00	448	100.00	-505	-959	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	21	21
Terminal	21	21
Main Fan	21	21
Sec Fan	0	0
Nom Vent	7	7
AHU Vent	7	7
Infil	7	7
MinStop/Rh	0	0
Return	29	29
Exhaust	14	14
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	31.8	31.8
cfm/ft²	0.38	0.38
cfm/ton	288.52	
ft²/ton	764.30	
Btu/hr-ft²	15.70	-17.13
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	0.1	0.9	0.7	21	82.8	66.5	76.3	55.0	52.6	58.3
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	0.1	0.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	56		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-1.0	21	49.7	92.6
Aux Htg	0.0	0	0.0	0.0
Preheat	-0.1	21	49.7	55.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1.0			

Room Checksums

By PEC

008 - STORAGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	0	0	0	0	0	0	0	0.00						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	1,114		1,114	36	709	44	-1,769	51.64						
<i>Sub Total ==></i>	1,114	0	1,114	36	709	44	-1,769	51.64						
Internal Loads				Internal Loads										
Lights	546	137	683	22	546	34	0	0.00						
People	0	0	0	0	0	0	0	0.00						
Misc	341	0	341	11	341	21	0	0.00						
<i>Sub Total ==></i>	887	137	1,024	33	887	55	0	0.00						
Ceiling Load	3	-3	0	0	3	0	-35	0.00						
Ventilation Load	0	0	1,003	32	0	0	-1,592	46.48						
Adj Air Trans Heat	0		0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			0	0.00						
Ov/Undr Sizing	0		0	0	0	0	29	-0.85						
Exhaust Heat		-3	-3	0			0	0.00						
Sup. Fan Heat			0	0			0	0.00						
Ret. Fan Heat			0	0			0	0.00						
Duct Heat Pkup			0	0			-94	2.73						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage			0	0			0	0.00						
Grand Total ==>	2,005	130	3,138	100.00	1,600	100.00	-1,804	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	75	75
Terminal	75	75
Main Fan	75	75
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	27	27
MinStop/Rh	0	0
Return	102	102
Exhaust	51	51
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	31.8	31.8
cfm/ft²	0.38	0.38
cfm/ton	288.69	
ft²/ton	764.80	
Btu/hr-ft²	15.69	-17.13
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	2.3	75	82.8	66.5	76.3	55.0	52.6	58.4
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	
		ft²	(%)
Floor	200		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-3.4	75	49.7	92.5
Aux Htg	0.0	0	0.0	0.0
Preheat	-0.4	75	49.7	55.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-3.4			

Room Checksums

By PEC

009 - STORAGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads							AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Cooling			Heating		
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Diffuser	71	71			
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Terminal	71	71			
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Main Fan	71	71			
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Sec Fan	0	0			
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Nom Vent	23	23			
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00	AHU Vent	23	23			
Floor	0	0	0	0	0	0	Floor	0	0	0.00	Infil	25	25			
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00	MinStop/Rh	0	0			
Infiltration	1,047	0	1,047	36	667	44	Infiltration	-1,663	-1,663	51.64	Return	96	96			
Sub Total ==>	1,047	0	1,047	36	667	44	Sub Total ==>	-1,663	-1,663	51.64	Exhaust	48	48			
Internal Loads				Internal Loads							ENGINEERING CKS					
Lights	513	128	642	22	513	34	Lights	0	0	0.00	% OA	31.8	31.8			
People	0	0	0	0	0	0	People	0	0	0.00	cfm/ft²	0.38	0.38			
Misc	321	0	321	11	321	21	Misc	0	0	0.00	cfm/ton	288.69				
Sub Total ==>	834	128	962	33	834	55	Sub Total ==>	0	0	0.00	ft²/ton	764.80				
Ceiling Load	3	-3	0	0	3	0	Ceiling Load	-32	0	0.00	Btu/hr-ft²	15.69	-17.13			
Ventilation Load	0	0	943	32	0	0	Ventilation Load	0	-1,497	46.48	No. People	0.0	0.0/1000 ft²			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00						
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	28	-0.85						
Exhaust Heat	0	-3	-3	0	0	0	OA Preheat Diff.	0	0	0.00						
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0.00						
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	-88	2.73							
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00						
Grand Total ==>	1,885	122	2,950	100.00	1,504	100.00	Grand Total ==>	-1,695	-3,220	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.3	3.0	2.2	71	82.8	66.5	76.3	55.0	52.6	58.4	Floor	188	-3.2	71	49.7	92.5	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	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	Int Door	0	-0.4	71	49.7	55.0	
											ExFlr	0					
Total	0.3	3.0									Roof	0	0.0	0	0.0	0.0	
											Wall	0	0.0	0	0.0	0.0	
											Ext Door	0	-3.2				

Room Checksums

By PEC

102 - EX HALL

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads							AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	0	0	0.00	Cooling			Heating			
Skylite Cond	0	0	0	0	0	0	0	0	0.00	Diffuser			Terminal			
Roof Cond	0	0	0	0	0	0	0	0	0.00	Main Fan			Sec Fan			
Glass Solar	0	0	0	0	0	0	0	0	0.00	Nom Vent			AHU Vent			
Glass/Door Cond	0	0	0	0	0	0	0	0	0.00	Infil			MinStop/Rh			
Wall Cond	0	0	0	0	0	0	0	0	0.00	Return			Exhaust			
Partition/Door	0	0	0	0	0	0	0	0	0.00	Rm Exh			Auxiliary			
Floor	0	0	0	0	0	0	0	0	0.00	Leakage Dwn			Leakage Ups			
Adjacent Floor	0	0	0	0	0	0	0	0	0.00							
Infiltration	323		323	48	209	56	-522	-522	67.34							
Sub Total ==>	323	0	323	48	209	56	-522	-522	67.34							
Internal Loads				Internal Loads							ENGINEERING CKS					
Lights	161	40	201	30	161	43	0	0	0.00	% OA			20.2			
People	0	0	0	0	0	0	0	0	0.00	cfm/ft²			0.30			
Misc	0	0	0	0	0	0	0	0	0.00	cfm/ton			314.05			
Sub Total ==>	161	40	201	30	161	43	0	0	0.00	ft²/ton			1,057.47			
Ceiling Load	1	-1	0	0	1	0	-10	0	0.00	Btu/hr-ft²			11.35			
Ventilation Load	0	0	145	22	0	0	0	-235	30.30	No. People			0.0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0							
Dehumid. Ov Sizing			0	0			0	0	0.00							
Ov/Undr Sizing	0		0	0	0	0	0	7	-0.85							
Exhaust Heat		-1	-1	0			0	0	0.00							
Sup. Fan Heat			0	0			0	0	0.00							
Ret. Fan Heat			0	0			0	0	0.00							
Duct Heat Pkup			0	0			0	0	0.00							
Underflr Sup Ht Pkup			0	0			0	-25	3.21							
Supply Air Leakage			0	0			0	0	0.00							
Grand Total ==>	485	39	669	100.00	371	100.00	-532	-775	100.00							

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION			
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F
Main Clg	0.1	0.7	0.5	18	80.0	65.2	74.4	55.0	52.2	56.9	Floor	59	-0.8	18	56.9	98.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	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	Int Door	0	0.0	0	0.0	0.0
											ExFlr	0	0.0	0	0.0	0.0
Total	0.1	0.7									Roof	0	0.0	0	0.0	0.0
											Wall	0	0.0	0	0.0	0.0
											Ext Door	0	0.0	0	0.0	0.0
											Total	-0.8				

Room Checksums

By PEC

104 - FOYER

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads												
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	292		292	49	188	53	-469	-469	65.43							
	292	0	292	49	188	53	-469	-469	65.43							
Internal Loads				Internal Loads												
	145	36	181	31	145	41	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	145	36	181	31	145	41	0	0	0.00							
Ceiling Load				Ceiling Load												
	19	-19	0	0	19	5	-20	0	0.00							
	0	0	132	22	0	0	0	-211	29.44							
	0		0	0	0	0	0	0	0							
			0	0			0	0	0.00							
	0		0	0	0	0	0	13	-1.80							
		-12	-12	-2			0	0	0.00							
			0	0			0	0	0.00							
			0	0			0	0	0.00							
			0	0			0	0	0.00							
			0	0			-50	6.93								
			0	0			0	0	0.00							
		0	0	0			0	0	0.00							
Grand Total ==>	456	5	592	100.00	352	100.00	-489	-717	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	17	17
Terminal	17	17
Main Fan	17	17
Sec Fan	0	0
Nom Vent	3	3
AHU Vent	3	3
Infil	7	7
MinStop/Rh	0	0
Return	24	24
Exhaust	10	10
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.2	19.2
cfm/ft²	0.31	0.31
cfm/ton	336.16	
ft²/ton	1,073.84	
Btu/hr-ft²	11.17	-13.52
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	0.1	0.6	0.4	17	80.6	65.3	73.8	55.0	53.3	61.1
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	0.1	0.6								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	53		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-0.7	17	57.0	97.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.7			

Room Checksums

By PEC

105 - ENTRY

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 13		Mo/Hr: 7 / 14		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 98 / 74 / 94		OADB: 99		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads												
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	157	38	195	40	153	47	-374	-465	63.38							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	147		147	30	90	28	-230	-230	31.33							
	305	38	343	70	242	75	-604	-695	94.71							
Internal Loads				Internal Loads												
	71	18	89	18	71	22	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	71	18	89	18	71	22	0	0	0.00							
	9	-9	0	0	9	3	-10	0	0.00							
	0	0	66	13	0	0	0	-104	14.10							
	0	0	0	0	0	0	0	0	0							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	6	-0.86							
	0	-6	-6	-1	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	58	-7.95								
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
Grand Total ==>	385	40	492	100.00	323	100.00	-613	-734	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	15	15
Terminal	15	15
Main Fan	15	15
Sec Fan	0	0
Nom Vent	2	2
AHU Vent	2	2
Infil	3	3
MinStop/Rh	0	0
Return	19	19
Exhaust	5	5
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.2	10.2
cfm/ft²	0.59	0.59
cfm/ton	371.88	
ft²/ton	634.71	
Btu/hr-ft²	18.91	-28.23
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	0.0	0.5	0.4	15	78.3	63.6	68.9	55.0	52.4	57.7
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	0.0	0.5								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	26		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	77	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-0.7	15	62.5	108.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.7			

Room Checksums

By PEC

106 - CUBICLES

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 18		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 98 / 71 / 74		OADB: 95		OADB: 7						SADB	55.0	79.3
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.5
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.1	69.5
Envelope Loads				Envelope Loads								Ret/OA	76.6	65.2
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Glass Solar	2,441	0	2,441	23	2,596	30	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	403	0	403	4	380	4	-1,141	18.83	-1,141	-1,141	18.83	Diffuser	404	404
Wall Cond	320	96	416	4	327	4	-912	19.52	-1,183	-1,183	19.52	Terminal	404	404
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	404	404
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	28	28
Infiltration	950	0	950	9	613	7	-1,902	31.38	-1,902	-1,902	31.38	AHU Vent	28	28
Sub Total ==>	4,113	96	4,209	39	3,917	46	-3,955	69.74	-4,226	-4,226	69.74	Infil	29	29
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	587	147	734	7	587	7	0	0.00	0	0	0.00	Return	432	432
People	1,500	0	1,500	14	750	9	0	0.00	0	0	0.00	Exhaust	57	57
Misc	3,300	0	3,300	31	3,300	39	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	5,387	147	5,534	52	4,637	54	0	0.00	0	0	0.00	Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-4	0	0	4	0	-37	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	925	9	0	0	0	30.54	-1,851	-1,851	30.54	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	6.9	6.9
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	1.88	1.88
Exhaust Heat	0	-3	-3	0	0	0	0	0.00	33	33	-0.54	cfm/ton	454.36	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	ft²/ton	241.95	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	49.60	-28.19
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	-16	-16	0.26	No. People	3.0	14.0/1000 ft²
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	9,504	235	10,663	100.00	8,558	100.00	-3,992	100.00	-6,060	-6,060	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.9	10.7	9.4	404	76.6	61.5	61.7	55.0	52.1	56.4	Floor	215	Main Htg	-6.1	404	65.2	79.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	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	Int Door	0	Preheat	0.0	0	0.0	0.0
											ExFlr	0					
Total	0.9	10.7									Roof	0	Humidif	0.0	0	0.0	0.0
											Wall	226	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	Total	-6.1			

Room Checksums

By PEC

107 - OFFICE 1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: 7 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 100 / 74 / 89		OADB: 99		OADB: 7						SADB	55.0	84.7
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.5
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.1	69.5
Envelope Loads				Envelope Loads								Ret/OA	76.1	66.9
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Glass Solar	2,561	0	2,561	37	2,562	45	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	518	0	518	8	548	10	-1,712	34.12	-1,712	-1,712	34.12	Diffuser	266	266
Wall Cond	536	158	694	10	539	10	-1,488	38.35	-1,488	-1,925	38.35	Terminal	266	266
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	266	266
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	11	11
Infiltration	639	0	639	9	355	6	-911	18.16	-911	-911	18.16	AHU Vent	11	11
Sub Total ==>	4,254	158	4,412	64	4,003	71	-4,111	90.63	-4,111	-4,548	90.63	Infil	14	14
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	281	70	352	5	281	5	0	0.00	0	0	0.00	Return	280	280
People	500	0	500	7	250	4	0	0.00	0	0	0.00	Exhaust	25	25
Misc	1,100	0	1,100	16	1,100	20	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	1,881	70	1,952	28	1,631	29	0	0.00	0	0	0.00	Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-2	0	0	2	0	-18	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	520	8	0	0	0	14.78	0	-742	14.78	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	4.2	4.2
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	2.58	2.58
Exhaust Heat	0	-1	-1	0	0	0	0	0.00	0	0	0.00	cfm/ton	463.69	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	ft²/ton	179.60	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	66.81	-48.72
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	1.0	9.7/1000 ft²
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	6,137	225	6,882	100.00	5,636	100.00	-4,129	100.00	-4,129	-5,018	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.6	6.9	6.1	266	76.1	61.1	60.4	55.0	51.8	55.1	Floor	103	Main Htg	-5.0	266	66.9	84.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	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	Int Door	0	Preheat	0.0	0	0.0	0.0
											ExFlr	0	Humidif	0.0	0	0.0	0.0
Total	0.6	6.9									Roof	0	Opt Vent	0.0	0	0.0	0.0
											Wall	363	Total	-5.0			
											Ext Door	0					

Room Checksums

By PEC

109 - M TLT

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 100		OADB: 7				SADB	55.0	105.8
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.5
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.1	69.5
Envelope Loads				Envelope Loads								Ret/OA	75.1	69.5
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00				Fn Frict	0.0	0.0
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00				AIRFLOWS		
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00				Diffuser	Cooling	Heating
Wall Cond	239	60	299	36	243	39	Wall Cond	-682	-851	75.80		Terminal	29	29
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00	Main Fan	29	29	
Floor	0	0	0	0	0	0	Floor	0	0	0.00	Sec Fan	0	0	
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00	Nom Vent	0	0	
Infiltration	282	0	282	34	167	27	Infiltration	-416	-416	37.03	AHU Vent	0	0	
Sub Total ==>	522	60	581	71	409	66	Sub Total ==>	-1,098	-1,267	112.83	Infil	6	6	
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	128	32	160	20	128	21	Lights	0	0	0.00	Return	29	29	
People	0	0	0	0	0	0	People	0	0	0.00	Exhaust	0	0	
Misc	80	0	80	10	80	13	Misc	0	0	0.00	Rm Exh	6	6	
Sub Total ==>	209	32	241	29	209	34	Sub Total ==>	0	0	0.00	Auxiliary	0	0	
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-1	0	0	1	0	Ventilation Load	-8	0	0.00	Leakage Ups	0	0	
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0.00	ENGINEERING CKS			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00	% OA	Cooling	Heating	
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0	0.00	cfm/ft²	0.0	0.0	
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	0	0	0.00	cfm/ton	0.62	0.62	
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0.00	ft²/ton	426.16		
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00	Btu/hr-ft²	686.17		
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	144	-12.83			17.49	-23.89	
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00	No. People	0.0	0.0/1000 ft²	
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00				
Grand Total ==>	731	91	822	100.00	619	100.00	Grand Total ==>	-1,106	-1,123	100.00				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.1	0.8	0.7	29	75.1	61.4	63.8	55.0	51.4	53.5	Floor	47		Main Htg	-1.1	29	69.5	105.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.1	0.8									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	141	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-1.1			

Room Checksums

By PEC

110 - CONF RM

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: 7 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 100 / 74 / 89		OADB: 98		OADB: 98		OADB: 7		OADB: 7		SADB	55.0	80.2
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.1	68.8
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	76.1	68.8
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass Solar	1,837	0	1,837	14	2,652	29	0	0.00	0	0	0.00	Diffuser	430	430
Glass/Door Cond	409	0	409	3	406	4	-1,141	12.86	-1,141	-1,141	12.86	Terminal	430	430
Wall Cond	396	113	509	4	417	5	-939	13.68	-1,214	-1,214	13.68	Main Fan	430	430
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	57	57
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	57	57
Infiltration	1,522	0	1,522	11	895	10	-2,459	27.71	-2,459	-2,459	27.71	Infil	37	37
Sub Total ==>	4,164	113	4,277	32	4,371	48	-4,539	54.25	-4,539	-4,814	54.25	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	467	467
Lights	759	190	949	7	759	8	0	0.00	0	0	0.00	Exhaust	94	94
People	4,000	0	4,000	30	2,000	22	0	0.00	0	0	0.00	Rm Exh	0	0
Misc	1,898	0	1,898	14	1,898	21	0	0.00	0	0	0.00	Auxiliary	0	0
Sub Total ==>	6,657	190	6,846	51	4,657	51	0	0.00	0	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	-99	0	0	90	1	-104	0.00	0	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	2,327	17	0	0	0	0.00	-3,760	-3,760	42.38	% OA	13.2	13.2
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	1.55	1.55
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	118	118	-1.33	cfm/ton	386.97	
Exhaust Heat	0	-112	-112	-1	0	0	0	0.00	0	0	0.00	ft²/ton	250.11	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	47.98	-31.92
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	8.0	28.8/1000 ft²
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	-417	-417	4.70			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	10,920	91	13,338	100.00	9,117	100.00	-4,644	100.00	-4,644	-8,873	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION							
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F				
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb										
Main Clg	1.1	13.3	10.0	430	79.3	64.2	70.2	55.0	53.6	62.4	Floor	278				Main Htg	-8.9	430	60.7	80.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0				Aux Htg	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	Int Door	0				Preheat	0.0	0	0.0	0.0
											ExFlr	0				Humidif	0.0	0	0.0	0.0
Total	1.1	13.3									Roof	0	0	0	Opt Vent	0.0	0	0.0	0.0	
											Wall	231	30	13	Total	-8.9				
											Ext Door	0	0	0						

Room Checksums

By PEC

112 - HALL

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 18		Mo/Hr: 7 / 18		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 95 / 69 / 70		OADB: 95		OADB: 95		OADB: 7		OADB: 7		SADB	55.0	83.8
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.9	68.8
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.9	68.8
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass Solar	1,989	0	1,989	61	1,989	67	0	0.00	0	0	0.00	Diffuser	140	140
Glass/Door Cond	227	0	227	7	227	8	-709	28.75	-709	-709	28.75	Terminal	140	140
Wall Cond	285	79	364	11	285	10	-767	39.87	-767	-983	39.87	Main Fan	140	140
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	4	4
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	4	4
Infiltration	258	0	258	8	177	6	0	0.00	-548	-548	22.23	Infil	8	8
Sub Total ==>	2,759	79	2,838	87	2,678	90	-2,025	90.85	-2,025	-2,241	90.85	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	148	148
Lights	169	42	212	6	169	6	0	0.00	0	0	0.00	Exhaust	12	12
People	0	0	0	0	0	0	0	0.00	0	0	0.00	Rm Exh	0	0
Misc	106	0	106	3	106	4	0	0.00	0	0	0.00	Auxiliary	0	0
Sub Total ==>	275	42	317	10	275	9	0	0.00	0	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	-18	0	0	18	1	-23	0.00	0	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	116	4	0	0	0	0.00	0	-247	10.01	% OA	2.7	2.7
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	2.26	2.26
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ton	516.30	
Exhaust Heat	0	-12	-12	0	0	0	0	0.00	0	15	-0.61	ft²/ton	228.30	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	52.56	-39.78
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	0.0	0.0/1000 ft²
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	3,053	90	3,259	100.00	2,972	100.00	-2,048	100.00	-2,048	-2,467	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.3	3.3	3.1	140	76.5	60.2	55.8	55.0	51.7	54.9	Floor	62		Main Htg	-2.5	140	67.2	83.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.3	3.3									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	182	19	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-2.5			

Room Checksums

By PEC

113 - BREAK RM

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 95 / 73 / 93		OADB: 91		OADB: 7						SADB	55.0	81.7
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.1	68.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	76.1	68.8
Envelope Loads				Envelope Loads								Ret/OA	77.3	64.8
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Glass Solar	1,446	0	1,446	9	2,223	18	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	187	0	187	1	147	1	-709	6.76	-709	-709	6.76	Diffuser	588	588
Wall Cond	4,223	1,131	5,354	32	3,877	31	-5,323	64.43	-6,754	-6,754	64.43	Terminal	588	588
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	588	588
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	38	38
Infiltration	724	0	724	4	305	2	-1,185	11.31	-1,185	-1,185	11.31	AHU Vent	38	38
Sub Total ==>	6,581	1,131	7,712	46	6,552	53	-7,218	82.50	-7,218	-8,649	82.50	Infil	18	18
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	366	91	457	3	366	3	0	0.00	0	0	0.00	Return	606	606
People	3,000	0	3,000	18	1,500	12	0	0.00	0	0	0.00	Exhaust	56	56
Misc	4,000	0	4,000	24	4,000	32	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	7,366	91	7,457	45	5,866	47	0	0.00	0	0	0.00	Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-48	0	0	45	0	-50	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	1,542	9	0	0	0	24.07	0	-2,524	24.07	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	6.5	6.5
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	4.39	4.39
Exhaust Heat	0	-66	-66	0	0	0	0	0.00	0	70	-0.67	cfm/ton	423.92	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	ft²/ton	96.61	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	124.21	-78.23
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	619	-5.91	No. People	6.0	44.8/1000 ft²
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	13,995	1,108	16,645	100.00	12,463	100.00	-7,268	100.00	-7,268	-10,483	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	1.4	16.6	14.1	588	77.3	62.5	65.3	55.0	52.6	58.3	Floor	134		Main Htg	-10.5	588	64.8	81.7	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0	
											ExFlr	0		Humidif	0.0	0	0.0	0.0	
Total	1.4	16.6									Roof	0	0	Opt Vent	0.0	0	0.0	0.0	
											Wall	266	19	7	Total	-10.5			
											Ext Door	0	0	0					

Room Checksums

By PEC

202 - OFFICE 4

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 13		Mo/Hr: 7 / 12		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 98 / 74 / 94		OADB: 95		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads							AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Cooling			Heating		
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Diffuser	217	217			
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Terminal	217	217			
Glass Solar	2,068	0	2,068	37	2,200	48	Glass Solar	0	0	0.00	Main Fan	217	217			
Glass/Door Cond	285	0	285	5	236	5	Glass/Door Cond	-1,141	-1,141	29.41	Sec Fan	0	0			
Wall Cond	267	79	346	6	266	6	Wall Cond	-740	-963	24.82	Nom Vent	11	11			
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00	AHU Vent	11	11			
Floor	0	0	0	0	0	0	Floor	0	0	0.00	Infil	13	13			
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00	MinStop/Rh	0	0			
Infiltration	571	0	571	10	263	6	Infiltration	-832	-832	21.42	Return	230	230			
Sub Total ==>	3,190	79	3,270	58	2,965	64	Sub Total ==>	-2,713	-2,936	75.65	Exhaust	23	23			
Internal Loads				Internal Loads							ENGINEERING CKS					
Lights	257	64	321	6	257	6	Lights	0	0	0.00	% OA	4.9	4.9			
People	500	0	500	9	250	5	People	0	0	0.00	cfm/ft²	2.31	2.31			
Misc	1,100	0	1,100	19	1,100	24	Misc	0	0	0.00	cfm/ton	461.18				
Sub Total ==>	1,857	64	1,921	34	1,607	35	Sub Total ==>	0	0	0.00	ft²/ton	199.66				
Ceiling Load	31	-31	0	0	31	1	Ceiling Load	-55	0	0.00	Btu/hr-ft²	60.10	-41.29			
Ventilation Load	0	0	484	9	0	0	Ventilation Load	0	-706	18.19	No. People	1.0	10.6/1000 ft²			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00						
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	46	-1.18						
Exhaust Heat	0	-25	-25	0	0	0	OA Preheat Diff.	0	0	0.00						
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0.00						
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	-285	7.34							
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00						
Grand Total ==>	5,078	87	5,650	100.00	4,602	100.00	Grand Total ==>	-2,768	-3,881	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.5	5.7	4.9	217	77.1	62.0	63.1	55.0	52.8	59.2	Floor	94	-3.9	217	65.2	82.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	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	Int Door	0	0.0	0	0.0	0.0	
											ExFlr	0	0.0	0	0.0	0.0	
Total	0.5	5.7									Roof	0	0.0	0	0.0	0.0	
											Wall	190	0.0	0	0.0	0.0	
											Ext Door	0	-3.9	0	0.0	0.0	
											Total						

Room Checksums

By PEC

203 - OFFICE 2

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES										
Peaked at Time:		Mo/Hr: 7 / 18		Mo/Hr: 7 / 18		Mo/Hr: Heating Design			Cooling			Heating									
Outside Air:		OADB/WB/HR: 95 / 69 / 70		OADB: 95		OADB: 7			SADB			Ra Plenum									
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA								
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD								
							Btu/h	Btu/h		Fn Frict											
Envelope Loads				Envelope Loads							AIRFLOWS										
Skylite Solar	0	0	0	0	0	0	0	0	0.00	Cooling			Heating								
Skylite Cond	0	0	0	0	0	0	0	0	0.00	Diffuser			Terminal								
Roof Cond	0	0	0	0	0	0	0	0	0.00	Main Fan			Sec Fan								
Glass Solar	2,199	0	2,199	31	2,199	36	0	0	0.00	Nom Vent			AHU Vent								
Glass/Door Cond	373	0	373	5	373	6	-1,141	-1,141	26.14	Infil			MinStop/Rh								
Wall Cond	270	78	348	5	270	4	-763	-992	22.72	Return			Exhaust								
Partition/Door	0	0	0	0	0	0	0	0	0.00	Rm Exh			Auxiliary								
Floor	0	0	0	0	0	0	0	0	0.00	Leakage Dwn			Leakage Ups								
Adjacent Floor	0	0	0	0	0	0	0	0	0.00												
Infiltration	352		352	5	268	4	-832	-832	19.04												
Sub Total ==>	3,194	78	3,272	45	3,110	51	-2,736	-2,965	67.91												
Internal Loads				Internal Loads							ENGINEERING CKS										
Lights	257	64	321	4	257	4	0	0	0.00	% OA			Cooling			Heating					
People	1,000	0	1,000	14	500	8	0	0	0.00	cfm/ft²			cfm/ton			ft²/ton					
Misc	2,200	0	2,200	31	2,200	36	0	0	0.00	Btu/hr-ft²											
Sub Total ==>	3,457	64	3,521	49	2,957	48	0	0	0.00	No. People						2.0			21.3/1000 ft²		
Ceiling Load	40	-40	0	0	40	1	-55	0	0.00												
Ventilation Load	0	0	440	6	0	0	0	-1,038	23.77												
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0												
Dehumid. Ov Sizing			0	0			0	0	0.00												
Ov/Undr Sizing	0		0	0	0	0	0	56	-1.27												
Exhaust Heat		-40	-40	-1				0	0.00												
Sup. Fan Heat			0	0				0	0.00												
Ret. Fan Heat			0	0				0	0.00												
Duct Heat Pkup			0	0				-419	9.60												
Underflr Sup Ht Pkup			0	0				0	0.00												
Supply Air Leakage			0	0				0	0.00												
Grand Total ==>	6,690	63	7,192	100.00	6,106	100.00	-2,791	-4,366	100.00												

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg			
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.6	7.2	6.5	288	77.4	61.5	60.5	55.0	52.7	58.6	Floor	94	-4.4	288	64.8	79.1			
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	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	Int Door	0	0.0	0	0.0	0.0			
											ExFlr	0							
Total	0.6	7.2									Roof	0	0.0	0	0.0	0.0			
											Wall	195	30	15	0.0	0.0			
											Ext Door	0	0	0	0.0	0.0			
											Total	-4.4							

Room Checksums

By PEC

205 - CUBICLES

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 98 / 71 / 74		OADB: 98		OADB: 98		OADB: 7		OADB: 7		SADB	55.0	78.4
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.2	68.5
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	76.2	68.5
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.0	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.0	0.0
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	Roof Cond	0	0.00	AIRFLOWS		
Glass Solar	2,290	0	2,290	41	2,290	48	Glass Solar	0	Glass Solar	0	0.00	Diffuser	223	223
Glass/Door Cond	203	0	203	4	203	4	Glass/Door Cond	-571	Glass/Door Cond	-571	18.09	Terminal	223	223
Wall Cond	99	32	131	2	99	2	Wall Cond	-259	Wall Cond	-345	10.93	Main Fan	223	223
Partition/Door	0	0	0	0	0	0	Partition/Door	0	Partition/Door	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	0	Floor	0	Floor	0	0.00	Nom Vent	12	12
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	Adjacent Floor	0	0.00	AHU Vent	12	12
Infiltration	562	0	562	10	399	8	Infiltration	-1,097	Infiltration	-1,097	34.77	Infil	17	17
Sub Total ==>	3,154	32	3,186	57	2,991	63	Sub Total ==>	-1,927	Sub Total ==>	-2,012	63.79	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	240	240
Lights	339	85	423	8	339	7	Lights	0	Lights	0	0.00	Exhaust	29	29
People	500	0	500	9	250	5	People	0	People	0	0.00	Rm Exh	0	0
Misc	1,100	0	1,100	20	1,100	23	Misc	0	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	1,939	85	2,023	36	1,689	36	Sub Total ==>	0	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	-46	0	0	46	1	Ventilation Load	-60	Ventilation Load	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	423	8	0	0	Adj Air Trans Heat	0	Adj Air Trans Heat	-825	26.16	% OA	5.6	5.6
Dehumid. Ov Sizing	0	0	0	0	0	0	Dehumid. Ov Sizing	0	Dehumid. Ov Sizing	0	0.00	cfm/ft²	1.80	1.80
Ov/Undr Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	Ov/Undr Sizing	47	-1.49	cfm/ton	478.08	
Exhaust Heat	-36	-36	-1	-1	0	0	Exhaust Heat	0	Exhaust Heat	0	0.00	ft²/ton	265.87	
Sup. Fan Heat	0	0	0	0	0	0	OA Preheat Diff.	0	OA Preheat Diff.	0	0.00	Btu/hr-ft²	45.13	-25.44
Ret. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	RA Preheat Diff.	0	0.00	No. People	1.0	8.1/1000 ft²
Duct Heat Pkup	0	0	0	0	0	0	Additional Reheat	0	Additional Reheat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	System Plenum Heat	-364	System Plenum Heat	11.53				
Supply Air Leakage	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	Supply Air Leakage	0	0.00			
Grand Total ==>	5,139	34	5,597	100.00	4,726	100.00	Grand Total ==>	-1,987	Grand Total ==>	-3,154	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.5	5.6	5.1	223	77.4	61.5	60.3	55.0	52.5	58.1	Floor	124		Main Htg	-3.2	223	65.1	78.4	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0	
											ExFlr	0							
Total	0.5	5.6									Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	72	15	21	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.2			

Room Checksums

By PEC

206 - CUBICLES

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 100		OADB: 7						SADB	55.0	79.2			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.0	68.5			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	76.0	68.5			
Envelope Loads				Envelope Loads								Ret/OA	78.7	61.4			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0			
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00				Diffuser	94	94
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0.00				Terminal	94	94
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	94	94
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	11	11
Infiltration	560	560	19	348	17	-867	-867	48.93	-867	-867	48.93				AHU Vent	11	11
Sub Total ==>	560	560	19	348	17	-867	-867	48.93	-867	-867	48.93				Infil	13	13
Internal Loads				Internal Loads											MinStop/Rh	0	0
Lights	268	67	334	11	268	13	0	0.00	0	0	0.00				Return	107	107
People	500	0	500	17	250	13	0	0.00	0	0	0.00	Exhaust	24	24			
Misc	1,100	0	1,100	37	1,100	55	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	1,868	67	1,934	66	1,618	81	0	0.00	0	0	0.00	Auxiliary	0	0			
Ceiling Load				Ceiling Load								Leakage Dwn	0	0			
Ventilation Load	0	-31	0	0	33	2	-48	0.00	0	0	0.00	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	466	16	0	0	0	40.74	0	-722	40.74	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	11.5	11.5
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				cfm/ft²	0.96	0.96
Exhaust Heat	0	-26	-26	-1	0	0	39	-2.20	0	0	0.00				cfm/ton	385.36	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00				ft²/ton	400.69	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00				Btu/hr-ft²	29.95	-18.08
Duct Heat Pkup	0	0	0	0	0	0	-222	12.53	0	0	0.00				No. People	1.0	10.2/1000 ft²
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	2,459	10	2,935	100.00	1,998	100.00	-914	100.00	-1,772	-1,772	100.00						

COOLING COIL SELECTION											AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.2	2.9	2.3	94	78.7	63.9	70.1	55.0	53.3	61.1	Floor	98	Main Htg	-1.8	94	61.4	79.2	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	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	Int Door	0	Preheat	0.0	0	0.0	0.0	
											ExFlr	0	Humidif	0.0	0	0.0	0.0	
Total	0.2	2.9									Roof	0	Opt Vent	0.0	0	0.0	0.0	
											Wall	0	Total	-1.8				
											Ext Door	0						

Room Checksums

By PEC

207 - UNISEX RR

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 16		Mo/Hr: Heating Design										
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 99		OADB: 7										
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Cooling	Heating						
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Btu/h	Btu/h						
Envelope Loads				Envelope Loads							AIRFLOWS					
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0	0.00				Diffuser	32	32	
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0.00				Terminal	32	32	
Roof Cond	0	0	0	0	0	Roof Cond	0	0	0.00				Main Fan	32	32	
Glass Solar	0	0	0	0	0	Glass Solar	0	0	0.00				Sec Fan	0	0	
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0	0.00				Nom Vent	0	0	
Wall Cond	253	61	314	35	263	38	Wall Cond	-682	-848	70.10				AHU Vent	0	0
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00				Infil	7	7
Floor	0	0	0	0	0	0	Floor	0	0	0.00				MinStop/Rh	0	0
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00				Return	32	32
Infiltration	316	0	316	35	176	26	Infiltration	-451	-451	37.27				Exhaust	0	0
<i>Sub Total ==></i>	569	61	630	71	438	64	<i>Sub Total ==></i>	-1,133	-1,300	107.38				Rm Exh	7	7
Internal Loads				Internal Loads							ENGINEERING CKS					
Lights	139	35	174	20	139	20	Lights	0	0	0.00				% OA	0.0	0.0
People	0	0	0	0	0	0	People	0	0	0.00				cfm/ft²	0.63	0.63
Misc	87	0	87	10	87	13	Misc	0	0	0.00				cfm/ton	433.69	
<i>Sub Total ==></i>	226	35	261	29	226	33	<i>Sub Total ==></i>	0	0	0.00				ft²/ton	686.81	
Ceiling Load	16	-16	0	0	18	3	Ceiling Load	-25	0	0.00				Btu/hr-ft²	17.47	-23.73
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0.00				No. People	0.0	0.0/1000 ft²
Adj Air Trans Heat	0	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	0	0	0.00						
Exhaust Heat		0	0	0			OA Preheat Diff.	0	0	0.00						
Sup. Fan Heat			0	0			RA Preheat Diff.	0	0	0.00						
Ret. Fan Heat			0	0			Additional Reheat	0	0	0.00						
Duct Heat Pkup			0	0			System Plenum Heat	89	-7.38							
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0	0.00						
Supply Air Leakage			0	0			Supply Air Leakage	0	0	0.00						
Grand Total ==>	812	79	891	100.00	683	100.00	Grand Total ==>	-1,158	-1,210	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.1	0.9	0.8	32	76.0	61.3	61.7	55.0	51.4	53.6	Floor	51		Main Htg	-1.2	32	68.5	103.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.1	0.9									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	141	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-1.2			

Room Checksums

By PEC

208 - OFFICE 3

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 9 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 98 / 71 / 74		OADB: 83		OADB: 7						SADB	55.0	78.7
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.2	68.5
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	76.2	68.5
Envelope Loads				Envelope Loads								Ret/OA	77.3	65.3
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Glass Solar	2,389	0	2,389	31	3,127	49	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	385	0	385	5	107	2	-1,141	26.47	-1,141	-1,141	26.47	Diffuser	304	304
Wall Cond	284	83	367	5	117	2	-774	23.37	-1,008	-1,008	23.37	Terminal	304	304
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	304	304
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	16	16
Infiltration	429	0	429	6	109	2	-840	19.49	-840	-840	19.49	AHU Vent	16	16
<i>Sub Total ==></i>	3,487	83	3,571	47	3,460	54	-2,756	69.33	-2,989	-2,989	69.33	Infil	13	13
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	259	65	324	4	259	4	0	0.00	0	0	0.00	Return	316	316
People	1,000	0	1,000	13	500	8	0	0.00	0	0	0.00	Exhaust	28	28
Misc	2,200	0	2,200	29	2,200	34	0	0.00	0	0	0.00	Rm Exh	0	0
<i>Sub Total ==></i>	3,459	65	3,524	46	2,959	46	0	0.00	0	0	0.00	Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-35	0	0	19	0	-46	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	531	7	0	0	0	24.16	-1,042	-1,042	24.16	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	5.2	5.2
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	3.20	3.20
Exhaust Heat	0	-35	-35	0	0	0	0	0.00	46	46	-1.07	cfm/ton	480.20	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	ft²/ton	150.18	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	79.91	-45.39
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	2.0	21.1/1000 ft²
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Grand Total ==></i>	6,982	78	7,591	100.00	6,439	100.00	-2,802	100.00	-4,312	-4,312	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.6	7.6	6.8	304	77.3	61.5	60.5	55.0	52.6	58.3	Floor	95	-4.3	304	65.3	78.7	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	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	Int Door	0	0.0	0	0.0	0.0	
											ExFlr	0	0.0	0	0.0	0.0	
Total	0.6	7.6									Roof	0	0.0	0	0.0	0.0	
											Wall	197	0.0	0	0.0	0.0	
											Ext Door	0	-4.3	0	0.0	0.0	

Room Checksums

By PEC

301 - ATTIC N

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15			Mo/Hr: 7 / 17		Mo/Hr: Heating Design										
Outside Air:		OADB/WB/HR: 100 / 74 / 89			OADB: 98		OADB: 7										
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent Of Total	Space Sens	Coil Peak	Percent Of Total	SADB	Cooling	Heating			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	(%)	Btu/h	Btu/h	(%)	Ra Plenum					
Envelope Loads					Envelope Loads										AIRFLOWS		
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	Diffuser	185	185			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Terminal	185	185			
Roof Cond	0	540	9	0	0	Roof Cond	0	24.11	0	-1,198	24.11	Main Fan	185	185			
Glass Solar	853	0	15	1,047	27	Glass Solar	0	0.00	0	0	0.00	Sec Fan	0	0			
Glass/Door Cond	273	0	5	271	7	Glass/Door Cond	-761	15.32	0	-761	15.32	Nom Vent	15	15			
Wall Cond	150	44	3	153	4	Wall Cond	-490	12.85	0	-638	12.85	AHU Vent	15	15			
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Infil	34	34			
Floor	0	0	0	0	0	Floor	0	0.00	0	0	0.00	MinStop/Rh	0	0			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	0	0	0.00	Return	219	219			
Infiltration	1,570	1,570	27	812	21	Infiltration	-2,229	44.87	0	-2,229	44.87	Exhaust	49	49			
Sub Total ==>	2,845	584	59	2,282	58	Sub Total ==>	-3,480	97.15	0	-4,826	97.15	Rm Exh	0	0			
Internal Loads					Internal Loads										ENGINEERING CKS		
Lights	688	172	15	688	18	Lights	0	0.00	0	0	0.00	% OA	8.2	8.2			
People	0	0	0	0	0	People	0	0.00	0	0	0.00	cfm/ft²	0.74	0.74			
Misc	860	0	15	860	22	Misc	0	0.00	0	0	0.00	cfm/ton	383.76				
Sub Total ==>	1,548	172	30	1,548	39	Sub Total ==>	0	0.00	0	0	0.00	ft²/ton	521.53				
Ceiling Load	89	-89	0	101	3	Ceiling Load	-149	0.00	0	96	-1.93	Btu/hr-ft²	23.01	-19.71			
Ventilation Load	0	0	12	0	0	Ventilation Load	0	20.19	0	0	0.00	No. People	0.0	0.0/1000 ft²			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0						
Dehumid. Ov Sizing			0			Ov/Undr Sizing	0	0.00									
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat											
Exhaust Heat		-58	-1			OA Preheat Diff.											
Sup. Fan Heat		0	0			RA Preheat Diff.											
Ret. Fan Heat		0	0			Additional Reheat											
Duct Heat Pkup		0	0			System Plenum Heat				766	-15.41						
Underflr Sup Ht Pkup		0	0			Underflr Sup Ht Pkup				0	0.00						
Supply Air Leakage		0	0			Supply Air Leakage				0	0.00						
Grand Total ==>	4,483	609	100.00	3,930	100.00	Grand Total ==>	-3,629	100.00		-4,968	100.00						

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.5	5.8	185	78.1	61.9	61.3	55.0	50.7	51.1	Floor	252		Main Htg	-5.0	185	63.2	88.5		
Aux Clg	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	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	Int Door	0		Preheat	0.0	0	0.0	0.0		
										ExFlr	0								
Total	0.5	5.8								Roof	252	0	Humidif	0.0	0	0.0	0.0		
										Wall	126	20	Opt Vent	0.0	0	0.0	0.0		
										Ext Door	0	0	Total	-5.0					

Room Checksums

By PEC

301 - ATTIC S

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 9 / 14		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: 83		OADB: 7			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads												
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	492	492	8	0	0	0	-1,204	24.41							
	1,408	0	1,408	22	2,572	56	0	0	0.00							
	254	0	254	4	72	2	-761	-761	15.42							
	163	48	212	3	82	2	-490	-639	12.95							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	1,628	0	1,628	25	290	6	-2,229	-2,229	45.18							
	3,453	540	3,993	62	3,016	65	-3,480	-4,833	97.96							
Internal Loads				Internal Loads												
	688	172	860	13	688	15	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	860	0	860	13	860	19	0	0	0.00							
	1,548	172	1,720	27	1,548	34	0	0	0.00							
Ceiling Load				Ceiling Load												
	80	-80	0	0	43	1	-122	0	0.00							
Ventilation Load				Ventilation Load												
	0	0	733	11	0	0	0	-1,003	20.33							
Adj Air Trans Heat				Adj Air Trans Heat												
	0	0	0	0	0	0	0	0	0							
Dehumid. Ov Sizing				Ov/Undr Sizing												
	0	0	0	0	0	0	0	0	0.00							
Exhaust Heat				OA Preheat Diff.												
	0	-52	-52	-1	0	0	0	79	-1.60							
Sup. Fan Heat				RA Preheat Diff.												
	0	0	0	0	0	0	0	0	0.00							
Ret. Fan Heat				Additional Reheat												
	0	0	0	0	0	0	0	0	0.00							
Duct Heat Pkup				System Plenum Heat												
	0	0	0	0	0	0	0	823	-16.69							
Underflr Sup Ht Pkup				Underflr Sup Ht Pkup												
	0	0	0	0	0	0	0	0	0.00							
Supply Air Leakage				Supply Air Leakage												
	0	0	0	0	0	0	0	0	0.00							
Grand Total ==>				Grand Total ==>				Grand Total ==>								
	5,082	580	6,394	100.00	4,607	100.00	-3,602	-4,934	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	217	217
Terminal	217	217
Main Fan	217	217
Sec Fan	0	0
Nom Vent	15	15
AHU Vent	15	15
Infil	34	34
MinStop/Rh	0	0
Return	251	251
Exhaust	49	49
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	7.0	7.0
cfm/ft²	0.86	0.86
cfm/ton	407.91	
ft²/ton	472.94	
Btu/hr-ft²	25.37	-19.58
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.5	6.4	5.3	217	77.6	61.7	61.1	55.0	51.2	52.9
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	0.5	6.4								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	252		
Part	0		
Int Door	0		
ExFlr	0		
Roof	252	0	0
Wall	126	20	16
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-4.9			

Room Checksums

By PEC

302 - ATTIC STORAGE

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 95 / 73 / 93		OADB: 91		OADB: 7						SADB	55.0	86.3
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.0	68.1
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	76.0	68.1
Envelope Loads				Envelope Loads								Ret/OA	78.6	59.7
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.0	0.0
Roof Cond	0	208	208	7	0	Roof Cond	0	19.58				Fn Frict	0.0	0.0
Glass Solar	910	0	910	29	1,111	Glass Solar	0	0.00						
Glass/Door Cond	70	0	70	2	55	Glass/Door Cond	-304	10.90						
Wall Cond	127	35	162	5	126	Wall Cond	-318	14.59						
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	626	0	626	20	262	Infiltration	-1,017	36.44						
<i>Sub Total ==></i>	1,733	243	1,976	64	1,553	<i>Sub Total ==></i>	-1,640	81.51						
Internal Loads				Internal Loads										
Lights	314	79	393	13	314	Lights	0	0.00						
People	0	0	0	0	0	People	0	0.00						
Misc	196	0	196	6	196	Misc	0	0.00						
<i>Sub Total ==></i>	510	79	589	19	510	<i>Sub Total ==></i>	0	0.00						
Ceiling Load	37	-37	0	0	38	Ceiling Load	-68	0.00						
Ventilation Load	0	0	563	18	0	Ventilation Load	0	32.80						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	57						
Exhaust Heat	0	-32	-32	-1	0	OA Preheat Diff.	0	0.00						
Sup. Fan Heat	0	0	0	0	0	RA Preheat Diff.	0	0.00						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	342	-12.25						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	2,281	253	3,097	100.00	2,101	Grand Total ==>	-1,708	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	99	99
Terminal	99	99
Main Fan	99	99
Sec Fan	0	0
Nom Vent	14	14
AHU Vent	14	14
Infil	15	15
MinStop/Rh	0	0
Return	114	114
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	13.9	13.9
cfm/ft²	0.86	0.86
cfm/ton	384.15	
ft²/ton	445.63	
Btu/hr-ft²	26.93	-24.27
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										
	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	2.5	99	78.6	63.3	67.1	55.0	52.5	57.9
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	
		ft²	(%)
Floor	115		
Part	0		
Int Door	0		
ExFlr	0		
Roof	115	0	0
Wall	76	8	11
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-2.8	99	59.7	86.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2.8			

System Checksums

By PEC

AHU-1

Single Zone

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: Sum of		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: Peaks		OADB: 7		OADB: 7				SADB	55.0	85.3
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.5
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.1	69.5
Envelope Loads				Envelope Loads								Ret/OA	78.1	61.8
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00				Fn Frict	0.0	0.0
Glass Solar	5,001	0	5,001	16	5,159	Glass Solar	0	0.00				AIRFLOWS		
Glass/Door Cond	921	0	921	3	927	Glass/Door Cond	-2,853	10.78				Diffuser	1,066	1,066
Wall Cond	1,137	324	1,462	5	1,151	Wall Cond	-3,239	15.70				Terminal	1,066	1,066
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00				Main Fan	1,066	1,066
Floor	0	0	0	0	0	Floor	0	0.00				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0				Nom Vent	131	131
Infiltration	6,890	0	6,890	22	4,345	Infiltration	-10,925	41.28				AHU Vent	131	131
Sub Total ==>	13,949	324	14,274	45	11,582	Sub Total ==>	-17,017	67.76				Infil	165	165
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	3,372	843	4,215	13	3,372	Lights	0	0.00				Return	1,215	1,215
People	2,000	0	2,000	6	1,000	People	0	0.00				Exhaust	280	280
Misc	5,864	0	5,864	19	5,864	Misc	0	0.00				Rm Exh	16	16
Sub Total ==>	11,236	843	12,079	38	10,236	Sub Total ==>	0	0.00				Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-300	0	0	300	Ventilation Load	-213	0.00				Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0				ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00				% OA	12.3	12.3
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00				cfm/ft²	0.86	0.86
Exhaust Heat	0	-252	-252	-1	0	OA Preheat Diff.	0	0.00				cfm/ton	405.81	
Sup. Fan Heat	0	0	0	0	0	RA Preheat Diff.	0	0.00				ft²/ton	469.97	
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00				Btu/hr-ft²	25.53	-21.43
Duct Heat Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00				No. People	4	
Underflr Sup Ht Pkup	0	0	0	0	0	Supply Air Leakage	0	0.00						
Supply Air Leakage	0	0	0	0	0	Grand Total ==>	-17,230	100.00						
Grand Total ==>	25,486	615	31,534	100.00	22,118	Grand Total ==>	-26,465	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION							
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F				
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb										
Main Clg	2.6	31.5	26.0	1,066	78.0	62.8	65.7	55.0	52.5	58.0	Floor	1,235				Main Htg	-26.5	1,066	61.8	85.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0				Aux Htg	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	Int Door	0				Preheat	0.0	0	0.0	0.0
											ExFlr	0				Humidif	0.0	0	0.0	0.0
Total	2.6	31.5									Roof	0	0	0		Opt Vent	0.0	0	0.0	0.0
											Wall	761	75	10		Total	-26.5			
											Ext Door	0	0	0						

System Checksums

By PEC

AHU-2

Single Zone

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: Sum of		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 100 / 74 / 89		OADB: Peaks		OADB: 7		OADB: 7				SADB	55.0	82.6
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.1	68.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	76.1	68.8
Envelope Loads				Envelope Loads								Ret/OA	78.5	62.6
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Glass Solar	5,273	0	5,273	14	6,864	25	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	823	0	823	2	780	3	-2,560	9.47	-2,560	-2,560	9.47	Diffuser	1,274	1,274
Wall Cond	5,062	1,360	6,423	17	4,732	18	-7,403	34.84	-9,416	-9,416	34.84	Terminal	1,274	1,274
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	1,274	1,274
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	Nom Vent	129	129
Infiltration	4,142	0	4,142	11	2,414	9	-6,785	25.11	-6,785	-6,785	25.11	AHU Vent	129	129
Sub Total ==>	15,300	1,360	16,661	44	14,790	55	-16,747	69.42	-16,747	-18,761	69.42	Infil	102	102
Internal Loads				Internal Loads								MinStop/Rh	0	0
Lights	2,094	524	2,618	7	2,094	8	0	0.00	0	0	0.00	Return	1,373	1,373
People	7,000	0	7,000	19	3,500	13	0	0.00	0	0	0.00	Exhaust	227	227
Misc	6,369	0	6,369	17	6,369	24	0	0.00	0	0	0.00	Rm Exh	4	4
Sub Total ==>	15,463	524	15,986	42	11,963	44	0	0.00	0	0	0.00	Auxiliary	0	0
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-272	0	0	258	1	-288	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	5,261	14	0	0	0	31.63	0	-8,549	31.63	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	10.1	10.1
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	1.66	1.66
Exhaust Heat	0	-270	-270	-1	0	0	0	-1.06	0	285	-1.06	cfm/ton	406.30	
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	ft²/ton	244.54	
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	49.07	-35.23
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	14	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	31,035	1,342	37,638	100.00	27,012	100.00	-17,035	100.00	-17,035	-27,024	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft²	Gross (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	3.1	37.6	30.4	1,274	78.3	63.1	66.8	55.0	52.9	59.6	Floor	767					
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	3.1	37.6									ExFlr	0					
											Roof	0	0	0			
											Wall	756	67	9			
											Ext Door	0	0	0			
											Total	-27.0					

System Checksums

By PEC

AHU-3

Single Zone

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: Sum of		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 99 / 74 / 93		OADB: Peaks		OADB: 7		OADB: 7				SADB	55.0	82.6
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	76.1	68.1
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	76.1	68.1
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.0	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.0	0.0
Roof Cond	0	748	3	0	0	Roof Cond	0	8.65	Roof Cond	-1,745	8.65	AIRFLOWS		
Glass Solar	6,498	0	23	7,012	33	Glass Solar	0	0.00	Glass Solar	0	0.00	Diffuser	1,002	1,002
Glass/Door Cond	1,192	0	4	1,140	5	Glass/Door Cond	-3,918	19.43	Glass/Door Cond	-3,918	19.43	Terminal	1,002	1,002
Wall Cond	951	275	4	952	4	Wall Cond	-2,819	18.12	Wall Cond	-3,654	18.12	Main Fan	1,002	1,002
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	Partition/Door	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	Floor	0	0.00	Floor	0	0.00	Nom Vent	74	74
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0	Adjacent Floor	0	0	AHU Vent	74	74
Infiltration	4,011	4,011	14	2,143	10	Infiltration	-6,254	31.01	Infiltration	-6,254	31.01	Infil	94	94
Sub Total ==>	12,652	1,023	49	11,247	53	Sub Total ==>	-12,991	77.20	Sub Total ==>	-15,571	77.20	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	1,097	1,097
Lights	1,930	483	9	1,930	9	Lights	0	0.00	Lights	0	0.00	Exhaust	169	169
People	2,500	0	9	1,250	6	People	0	0.00	People	0	0.00	Rm Exh	0	0
Misc	6,556	0	23	6,556	31	Misc	0	0.00	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	10,987	483	41	9,737	46	Sub Total ==>	0	0.00	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load	248	-248	0	263	1	Ceiling Load	-417	0.00	Ceiling Load	-417	0.00	Leakage Ups	0	0
Ventilation Load	0	0	3,036	0	0	Ventilation Load	0	24.45	Ventilation Load	-4,931	24.45	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	Adj Air Trans Heat	0	0	% OA	7.4	7.4
Dehumid. Ov Sizing	0	0	0	0	0	Dehumid. Ov Sizing	0	0.00	Dehumid. Ov Sizing	0	0.00	cfm/ft²	1.42	1.42
Ov/Undr Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00	Ov/Undr Sizing	0	0.00	cfm/ton	429.89	
Exhaust Heat	0	-199	-1	0	0	Exhaust Heat	0	-1.65	Exhaust Heat	333	-1.65	ft²/ton	303.21	
Sup. Fan Heat	0	0	0	0	0	OA Preheat Diff.	0	0.00	OA Preheat Diff.	0	0.00	Btu/hr-ft²	39.58	-28.53
Ret. Fan Heat	0	0	0	0	0	RA Preheat Diff.	0	0.00	RA Preheat Diff.	0	0.00	No. People	5	
Duct Heat Pkup	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
Grand Total ==>	23,888	1,058	27,981	100.00	21,247	Grand Total ==>	-13,408	100.00	Grand Total ==>	-20,169	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft²	Glass (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb									
Main Clg	2.3	28.0	23.8	1,002	77.7	62.2	63.4	55.0	52.4	57.7	Floor	707			Main Htg	-20.2	1,002	63.6	82.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	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	Int Door	0			Preheat	0.0	0	0.0	0.0
											ExFlr	0							
Total	2.3	28.0									Roof	367	0	0	Humidif	0.0	0	0.0	0.0
											Wall	710	103	15	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-20.2			

System Checksums

By PEC

AHU-4

Single Zone

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: Sum of		Mo/Hr: Heating Design		Mo/Hr: Heating Design						
Outside Air:		OADB/WB/HR: 100 / 74 / 89		OADB: Peaks		OADB: 7		OADB: 7						
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Cooling	Heating	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	SADB	55.0	81.3
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Ra Plenum	76.1	68.5
Roof Cond	0	492	492	2	0	0	0	7.83	0	-1,204	7.83	Return	76.1	68.5
Glass Solar	6,087	0	6,087	26	7,989	43	0	0.00	0	0	0.00	Ret/OA	77.6	64.7
Glass/Door Cond	842	0	842	4	382	2	0	16.08	-2,473	-2,473	16.08	Fn MtrTD	0.0	0.0
Wall Cond	800	224	1,024	4	561	3	0	18.46	-2,206	-2,840	18.46	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0			
Infiltration	3,495	0	3,495	15	1,321	7	0	35.65	-5,484	-5,484	35.65			
<i>Sub Total ==></i>	11,224	716	11,940	51	10,253	56	0	78.02	-10,163	-12,001	78.02			
Internal Loads				Internal Loads				Internal Loads						
Lights	1,693	423	2,116	9	1,693	9	0	0.00	0	0	0.00			
People	2,000	0	2,000	9	1,000	5	0	0.00	0	0	0.00			
Misc	5,347	0	5,347	23	5,347	29	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	9,040	423	9,463	40	8,040	44	0	0.00	0	0	0.00			
Ceiling Load	209	-209	0	0	159	1	0	0.00	-301	0	0.00			
Ventilation Load	0	0	2,153	9	0	0	0	23.35	0	-3,592	23.35			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	0	-1.37	0	211	-1.37			
Exhaust Heat	0	-149	-149	-1	0	0	0	0.00	0	0	0.00			
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Grand Total ==></i>	20,473	781	23,408	100.00	18,452	100.00	<i>Grand Total ==></i>	100.00	-10,464	-15,382	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	871	871
Terminal	871	871
Main Fan	871	871
Sec Fan	0	0
Nom Vent	54	54
AHU Vent	54	54
Infil	83	83
MinStop/Rh	0	0
Return	946	946
Exhaust	130	130
Rm Exh	7	7
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.2	6.2
cfm/ft²	1.40	1.40
cfm/ton	446.28	
ft²/ton	317.84	
Btu/hr-ft²	37.75	-24.81
No. People	4	

COOLING COIL SELECTION										
	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	2.0	23.4	20.2	871	77.5	61.8	61.6	55.0	52.3	57.0
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	2.0	23.4								

AREAS			
	Gross Total	Glass	(%)
		ft²	
Floor	620		
Part	0		
Int Door	0		
ExFlr	0		
Roof	252	0	0
Wall	536	65	12
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-15.4	871	64.7	81.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-15.4			