

Room Checksums

By AKF

Administration

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 10 / 15					Mo/Hr: 10 / 15					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 72 / 59 / 56					OADB: 72					OADB: 15							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total	(%)				
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Ra Plenum	57.8	68.0
Roof Cond	-235	0	-235	-1	-235	-1	0	0	0	-3,342	-3,342	20.69	0	0.00	Return	75.5	68.0
Glass Solar	21,301	0	21,301	71	21,301	77	0	0	0	0	0	0.00	0	0.00	Ret/OA	75.5	68.0
Glass Cond	-449	0	-449	-1	-449	-2	0	0	0	-5,127	-5,127	31.74	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	-26	0	-26	0	-26	0	0	0	0	-2,736	-2,736	16.94	0	0.00	Fn BldTD	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	20,591	0	20,591	69	20,591	74				-11,205	-11,205	69.36					
Internal Loads					Internal Loads					Internal Loads							
Lights	2,932	733	3,666	12	2,932	11	0	0	0	0	0	0.00	0	0.00			
People	3,000	0	3,000	10	1,500	5	0	0	0	0	0	0.00	0	0.00			
Misc	2,800	0	2,800	9	2,800	10	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	8,732	733	9,466	31	7,232	26				0	0	0.00					
Ceiling Load	0	0	0	0	0	0				0	0	0.00					
Ventilation Load	0	0	0	0	0	0				0	0	0.00					
Adj Air Trans Heat	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	0	0.00					
Exhaust Heat		0	0	0						0	0	0.00					
Sup. Fan Heat			0	0						0	0	0.00					
Ret. Fan Heat		0	0	0						0	0	0.00					
Duct Heat Pkup		0	0	0						0	0	0.00					
Underflr Sup Ht Pkup			0	0						0	0	0.00					
Supply Air Leakage		0	0	0						0	0	0.00					
Grand Total ==>	29,324	733	30,057	100.00	27,824	100.00				-11,205	-16,153	100.00					

	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	75.0	68.0
Return	75.5	68.0
Ret/OA	75.5	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	1,452	436
Terminal	1,452	436
Main Fan	1,452	436
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	436	436
Return	1,452	436
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	2.70	0.81
cfm/ton	579.60	
ft²/ton	214.39	
Btu/hr-ft²	55.97	-30.08
No. People	6	

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	2.5	30.1	28.6	1,452	75.5 62.7	64.8	57.8 55.8	63.3		
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	2.5	30.1								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	537		
Part	0		
ExFlr	0		
Roof	537	0	0
Wall	633	160	25

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent °F	Lvg °F
	MBh	cfm		
Main Htg	-16.2	0	0.0	0.0
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	-16.2			

Room Checksums

By AKF

Kitchen

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES			
Peaked at Time: Mo/Hr: 7 / 20					Mo/Hr: 7 / 22					Mo/Hr: Heating Design					Cooling Heating			
Outside Air: OADB/WB/HR: 82 / 71 / 95					OADB: 79					OADB: 15					SADB	57.8	68.0	
															Ra Plenum	78.1	59.7	
															Return	78.1	59.7	
															Ret/OA	78.1	59.7	
															Fn MtrTD	0.0	0.0	
															Fn BldTD	0.0	0.0	
															Fn Frict	0.0	0.0	
															AIRFLOWS			
															Cooling	Heating		
															Diffuser	443	133	
															Terminal	443	133	
															Main Fan	443	133	
															Sec Fan	0	0	
															Nom Vent	0	0	
															AHU Vent	0	0	
															Infil	0	0	
															MinStop/Rh	133	133	
															Return	443	133	
															Exhaust	0	0	
															Rm Exh	0	0	
															Auxiliary	0	0	
															Leakage Dwn	0	0	
															Leakage Ups	0	0	
															ENGINEERING CKS			
															Cooling	Heating		
															% OA	0.0	0.0	
															cfm/ft²	1.65	0.50	
															cfm/ton	384.25		
															ft²/ton	232.66		
															Btu/hr-ft²	51.58	-8.25	
															No. People	16		
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	1.2	13.8	9.8	442	78.1	63.6	64.8	57.8	53.1	52.5	Floor	268		0	0.0	0.0		
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		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	ExFlr	0		0	0.0	0.0		
											Roof	268	0	0				
											Wall	0	0	0				

Project Name:

Dataset Name: P:\Y070000\Y071268 - 31 West 27th Street - EDAW\calculations\Hvac\ledaw 1.trc

TRACE® 700 v6.2 calculated at 10:14 AM on 02/09/2009

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Room Checksums

By AKF

Meeting

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 14					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 86 / 70 / 85					OADB: 86					OADB: 15					SADB	57.8	68.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent			Ra Plenum	75.0	68.0
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total			Return	75.2	68.0
										Btu/h	Btu/h	(%)			Ret/OA	75.2	68.0
Envelope Loads					Envelope Loads					Envelope Loads					Fn MtrTD	0.0	0.0
Skylite Solar	21,068	0	21,068	66	21,068	75				0	0	0.00			Fn BldTD	0.0	0.0
Skylite Cond	583	0	583	2	583	2				-3,525	-3,525	37.02			Fn Frict	0.0	0.0
Roof Cond	436	0	436	1	436	2				-1,014	-1,014	10.65					
Glass Solar	0	0	0	0	0	0				0	0	0.00					
Glass Cond	0	0	0	0	0	0				0	0	0.00					
Wall Cond	0	0	0	0	0	0				0	0	0.00					
Partition	0	0	0	0	0	0				0	0	0.00					
Floor	0	0	0	0	0.00	0				0	0	0.00					
Adjacent Floor	0	0	0	0	0	0				0	0	0.00					
Infiltration	0	0	0	0	0	0				0	0	0.00					
Sub Total ==>	22,087	0	22,087	69	22,087	79				-4,539	-4,539	47.68					
Internal Loads					Internal Loads					Internal Loads					AIRFLOWS		
Lights	1,491	373	1,864	6	1,491	5				0	0	0.00			Diffuser	1,461	438
People	7,000	0	7,000	22	3,500	12				0	0	0.00			Terminal	1,461	438
Misc	932	0	932	3	932	3				0	0	0.00			Main Fan	1,461	438
Sub Total ==>	9,423	373	9,795	31	5,923	21				0	0	0.00			Sec Fan	0	0
Ceiling Load	0	0	0	0	0	0				0	0	0.00			Nom Vent	0	0
Ventilation Load	0	0	0	0	0	0				0	0	0.00			AHU Vent	0	0
Adj Air Trans Heat	0	0	0	0	0	0				0	0	0			Infil	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0				0	0	0.00			MinStop/Rh	438	438
Ov/Undr Sizing	0	0	0	0	0	0				0	0	0.00			Return	1,461	438
Exhaust Heat	0	0	0	0	0	0				0	0	0.00			Exhaust	0	0
Sup. Fan Heat	0	0	0	0	0	0				0	0	0.00			Rm Exh	0	0
Ret. Fan Heat	0	0	0	0	0	0				0	0	0.00			Auxiliary	0	0
Duct Heat Pkup	0	0	0	0	0	0				0	0	0.00			Leakage Dwn	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0				0	0	0.00			Leakage Ups	0	0
Supply Air Leakage	0	0	0	0	0	0				0	0	0.00			ENGINEERING CKS		
Grand Total ==>	31,509	373	31,882	100.00	28,009	100.00				-4,539	-9,521	100.00			% OA	0.0	0.0
															cfm/ft²	5.35	1.61
															cfm/ton	550.06	
															ft²/ton	102.75	
															Btu/hr-ft²	116.78	-34.87
															No. People	14	

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 °F	Lvg °F	
ton	MBh	cfm	°F °F gr/lb	°F °F gr/lb							ft² (%)			MBh	cfm			
Main Clg	2.7	31.9	28.4	1,461	75.2	62.6	64.8	57.8	55.3	61.4				Main Htg	-9.5	0	0.0	0.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0				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				Preheat	0.0	0	0.0	0.0
Total	2.7	31.9												Humidif	0.0	0	0.0	0.0
														Opt Vent	0.0	0	0.0	0.0
														Total	-9.5			

Room Checksums

By AKF

Meeting 2

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 20					Mo/Hr: 7 / 20					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 82 / 71 / 95					OADB: 82					OADB: 15					SADB	57.8	68.0
															Ra Plenum	75.0	68.0
															Return	76.0	68.0
															Ret/OA	76.0	68.0
															Fn MtrTD	0.0	0.0
															Fn BldTD	0.0	0.0
															Fn Frict	0.0	0.0
Envelope Loads					Envelope Loads					Envelope Loads					AIRFLOWS		
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Diffuser	189	57	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Terminal	189	57	
Roof Cond	764	0	764	14	764	21	0	0	-946	-946	59.55	0	0	Main Fan	189	57	
Glass Solar	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Sec Fan	0	0	
Glass Cond	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Nom Vent	0	0	
Wall Cond	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	AHU Vent	0	0	
Partition	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Infil	0	0	
Floor	0	0	0	0	0.00	0	0	0	0	0	0.00	0	0.00	MinStop/Rh	57	57	
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Return	189	57	
Infiltration	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Exhaust	0	0	
Sub Total ==>	764	0	764	14	764	21	0	0	-946	-946	59.55	0	0	Rm Exh	0	0	
Internal Loads					Internal Loads					Internal Loads					ENGINEERING CKS		
Lights	830	208	1,038	20	830	23	0	0	0	0	0.00	0	0.00	% OA	0.0	0.0	
People	3,000	0	3,000	56	1,500	42	0	0	0	0	0.00	0	0.00	cfm/ft²	1.24	0.37	
Misc	519	0	519	10	519	14	0	0	0	0	0.00	0	0.00	cfm/ton	425.16		
Sub Total ==>	4,349	208	4,556	86	2,849	79	0	0	0	0	0.00	0	0.00	ft²/ton	342.85		
Ceiling Load	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Btu/hr-ft²	35.00	-10.45	
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	No. People	6		
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	-643	40.45	0	0.00				
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00				
Grand Total ==>	5,113	208	5,320	100.00	3,613	100.00	Grand Total ==>	-946	-1,588	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		CapacityCoil Airflow		Ent °F	Lvg °F			
ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm					
Main Clg	0.4	5.3	3.8	189	76.0	62.9	64.8	57.8	53.3	53.5	Floor	152		Main Htg	-1.6	0	0.0	0.0	
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	ExFlr	0		Preheat	0.0	0	0.0	0.0	
											Roof	152	0	0					
Total	0.4	5.3									Wall	0	0	0	Humidif	0.0	0	0.0	0.0
														Opt Vent	0.0	0	0.0	0.0	
														Total	-1.6				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft² (%)	Capacity	Coil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb				MBh	cfm			
Main Clg	0.4	5.3	3.8	189	76.0	62.9	64.8	57.8	53.3	152			Main Htg	-1.6	0	0.0	0.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	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			Preheat	0.0	0	0.0	0.0
Total	0.4	5.3								152	0	0	Humidif	0.0	0	0.0	0.0
										0	0	0	Opt Vent	0.0	0	0.0	0.0
													Total	-1.6			

Room Checksums

By AKF

Meeting 3

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES					
Peaked at Time: Mo/Hr: 10 / 15					Mo/Hr: 10 / 15					Mo/Hr: Heating Design					Cooling Heating					
Outside Air: OADB/WB/HR: 72 / 59 / 56					OADB: 72					OADB: 15					SADB	57.8	68.0			
															Ra Plenum	75.0	68.0			
															Return	75.2	68.0			
															Ret/OA	75.2	68.0			
															Fn MtrTD	0.0	0.0			
															Fn BldTD	0.0	0.0			
															Fn Frict	0.0	0.0			
															AIRFLOWS					
															Cooling	Heating				
															Diffuser	963	289			
															Terminal	963	289			
															Main Fan	963	289			
															Sec Fan	0	0			
															Nom Vent	0	0			
															AHU Vent	0	0			
															Infil	0	0			
															MinStop/Rh	289	289			
															Return	963	289			
															Exhaust	0	0			
															Rm Exh	0	0			
															Auxiliary	0	0			
															Leakage Dwn	0	0			
															Leakage Ups	0	0			
															ENGINEERING CKS					
															Cooling	Heating				
															% OA	0.0	0.0			
															cfm/ft²	5.47	1.64			
															cfm/ton	572.16				
															ft²/ton	104.58				
															Btu/hr-ft²	114.75	-55.55			
															No. People	6				
COOLING COIL SELECTION													AREAS				HEATING COIL SELECTION			
Total Capacity		Sens Cap.		Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		CapacityCoil Airflow		Ent	Lvg		
ton MBh		MBh		cfm	°F °F gr/lb			°F °F gr/lb					ft² (%)		MBh cfm		°F	°F		
Main Clg	1.7	20.2	18.7	963	75.2	62.6	64.8	57.8	55.6	62.6	Floor	176			Main Htg	-9.8	0	0.0		
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		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	ExFlr	0			Preheat	0.0	0	0.0		
											Roof	176	0	0	Humidif	0.0	0	0.0		
											Wall	352	128	36	Opt Vent	0.0	0	0.0		
															Total	-9.8				

Room Checksums

By AKF

Modeling/Drafting Area

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 19					Mo/Hr: 6 / 19					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 81 / 68 / 82					OADB: 81					OADB: 15							
Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Percent Of Total (%)				Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)			SADB	Cooling	Heating
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	57.8	68.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	75.0	68.0
Roof Cond	1,320	0	1,320	7	1,320	8	0	0	0	-1,811	-1,811	15.71	0	0	0.00	75.4	68.0
Glass Solar	10,910	0	10,910	59	10,910	64	0	0	0	0	0	0.00	0	0	0.00	0.0	0.0
Glass Cond	736	0	736	4	736	4	0	0	0	-5,127	-5,127	44.48	0	0	0.00	0.0	0.0
Wall Cond	575	0	575	3	575	3	0	0	0	-1,542	-1,542	13.38	0	0	0.00	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0.0	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0	0.00	0.0	0.0
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0.0	0.0
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0.0	0.0
Sub Total ==>	13,541	0	13,541	73	13,541	79	0	0	0	-8,479	-8,479	73.58	0	0	0.00	0.0	0.0
Internal Loads					Internal Loads					Internal Loads							
Lights	1,589	397	1,986	11	1,589	9	0	0	0	0	0	0.00	0	0	0.00	0	0
People	2,000	0	2,000	11	1,000	6	0	0	0	0	0	0.00	0	0	0.00	0	0
Misc	993	0	993	5	993	6	0	0	0	0	0	0.00	0	0	0.00	0	0
Sub Total ==>	4,582	397	4,980	27	3,582	21	0	0	0	0	0	0.00	0	0	0.00	0	0
Ceiling Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0.00	0	0
Grand Total ==>	18,123	397	18,520	100.00	17,123	100.00	0	0	0	-8,479	-11,525	100.00	0	0	0.00	0	0

	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	75.0	68.0
Return	75.4	68.0
Ret/OA	75.4	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	893	268
Terminal	893	268
Main Fan	893	268
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	268	268
Return	893	268
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	3.07	0.92
cfm/ton	578.88	
ft²/ton	188.55	
Btu/hr-ft²	63.64	-39.60
No. People	4	

COOLING COIL SELECTION										
	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F °F gr/lb	Leave DB/WB/HR °F °F gr/lb				
Main Clg	1.5	18.5	17.5	893	75.4 62.7 64.8	57.8 55.8 63.2				
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	1.5	18.5								

AREAS			
	Gross Total	Glass ft² (%)	
Floor	291		
Part	0		
ExFlr	0		
Roof	291	0 0	
Wall	426	160 38	

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.5	0	0.0	0.0
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	-11.5			

Room Checksums

By AKF

Office 1

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 21					Mo/Hr: 7 / 21					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 80 / 71 / 97					OADB: 80					OADB: 15							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total	(%)				
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	SADB	Cooling 57.8	Heating 68.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Ra Plenum	75.0	68.0
Roof Cond	5,880	0	5,880	17	5,880	21	0	0	0	-7,549	-7,549	45.49	0	0.00	Return	76.0	68.0
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Ret/OA	76.0	68.0
Glass Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	1,461	0	1,461	4	1,461	5	0	0	0	-4,164	-4,164	25.10	0	0.00	Fn BldTD	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	7,341	0	7,341	21	7,341	27	0	0	0	-11,713	-11,713	70.59	0	0.00			
Internal Loads					Internal Loads					Internal Loads							
Lights	6,624	1,656	8,280	23	6,624	24	0	0	0	0	0	0.00	0	0.00			
People	12,500	0	12,500	35	6,250	23	0	0	0	0	0	0.00	0	0.00			
Misc	7,225	0	7,225	20	7,225	26	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	26,349	1,656	28,005	79	20,099	73	0	0	0	0	0	0.00	0	0.00			
Ceiling Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Grand Total ==>	33,689	1,656	35,346	100.00	27,439	100.00	0	0	0	-11,713	-16,593	100.00	0	0.00			

	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	75.0	68.0
Return	76.0	68.0
Ret/OA	76.0	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	1,432	430
Terminal	1,432	430
Main Fan	1,432	430
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	430	430
Return	1,432	430
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.18	0.35
cfm/ton	486.07	
ft²/ton	411.82	
Btu/hr-ft²	29.14	-13.68
No. People	25	

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	3.0	35.4	1,432	76.0 62.9 64.8	57.8 54.6 58.6				
Aux Clg	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				
Total	3.0	35.4							

AREAS			
	Gross Total	Glass	
		ft² (%)	
Floor	1,213		
Part	0		
ExFlr	0		
Roof	1,213	0 0	
Wall	719	0 0	

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent °F	Lvg °F
	MBh	cfm		
Main Htg	-16.6	0	0.0	0.0
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	-16.6			

Room Checksums

By AKF

Office 2

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 20					Mo/Hr: 7 / 20					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 82 / 71 / 95					OADB: 82					OADB: 15							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total	(%)				
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Ra Plenum	57.8	68.0
Roof Cond	6,568	0	6,568	19	6,568	24	0	0	0	-8,134	-8,134	62.72	0	0.00	Return	75.0	68.0
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Ret/OA	76.1	68.0
Glass Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn BldTD	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	6,568	0	6,568	19	6,568	24	0	0	0	-8,134	-8,134	62.72	0	0.00			
Internal Loads					Internal Loads					Internal Loads							
Lights	7,137	1,784	8,922	25	7,137	26	0	0	0	0	0	0.00	0	0.00			
People	12,500	0	12,500	35	6,250	23	0	0	0	0	0	0.00	0	0.00			
Misc	7,225	0	7,225	21	7,225	27	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	26,862	1,784	28,647	81	20,612	76	0	0	0	0	0	0.00	0	0.00			
Ceiling Load					Ceiling Load					Ceiling Load							
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Grand Total ==>	33,430	1,784	35,215	100.00	27,180	100.00	0	0	0	-8,134	-12,968	100.00	0	0.00			

TEMPERATURES		
	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	75.0	68.0
Return	76.1	68.0
Ret/OA	76.1	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	1,418	425
Terminal	1,418	425
Main Fan	1,418	425
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	425	425
Return	1,418	425
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.09	0.33
cfm/ton	483.26	
ft²/ton	445.38	
Btu/hr-ft²	26.94	-9.92
No. People	25	

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	2.9	35.2	1,418	76.1 62.9	64.8	57.8	54.6	58.5		
Aux Clg	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		
Total	2.9	35.2								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	1,307		
Part	0		
ExFlr	0		
Roof	1,307	0	0
Wall	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent °F	Lvg °F
	MBh	cfm		
Main Htg	-13.0	0	0.0	0.0
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	-13.0			

By AKF

Office 3

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 10 / 14					Mo/Hr: 10 / 14					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 72 / 59 / 56					OADB: 72					OADB: 15					SADB	57.8	68.0
															Ra Plenum	75.0	68.0
															Return	75.5	68.0
															Ret/OA	75.5	68.0
															Fn MtrTD	0.0	0.0
															Fn BldTD	0.0	0.0
															Fn Frict	0.0	0.0
Space		Plenum		Net Total	Percent Of Total	Space		Percent Of Total	Space Peak		Coil Peak		Percent Of Total				
Sens. + Lat.	Sens. + Lat	Sens. + Lat	Sensible			Space Sens	Tot Sens										
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	0	0	0	0.00					
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00					
Roof Cond	-980	0	-980	-1	-980	-1	-980	-1	-8,426	-8,426	26.34						
Glass Solar	45,934	0	45,934	62	45,934	69	45,934	69	0	0	0.00						
Glass Cond	-898	0	-898	-1	-898	-1	-898	-1	-9,228	-9,228	28.84						
Wall Cond	205	0	205	0	205	0	205	0	-2,512	-2,512	7.85						
Partition	0		0	0	0	0	0	0	0	0	0.00						
Floor	0		0	0	0.00	0		0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0.00						
Infiltration	0		0	0	0	0	0	0	0	0	0.00						
Sub Total ==>	44,261	0	44,261	60	44,261	67	44,261	67	-20,167	-20,167	63.03						
Internal Loads					Internal Loads					Internal Loads							
Lights	7,394	1,848	9,242	13	7,394	11	7,394	11	0	0	0.00						
People	11,000	0	11,000	15	5,500	8	5,500	8	0	0	0.00						
Misc	9,350	0	9,350	13	9,350	14	9,350	14	0	0	0.00						
Sub Total ==>	27,744	1,848	29,592	40	22,244	33	22,244	33	0	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0.00						
Adj Air Trans Heat	0		0	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing			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	0.00					
Sup. Fan Heat			0	0			0	0			-11,828	36.97					
Ret. Fan Heat		0	0	0			0	0			0	0.00					
Duct Heat Pkup		0	0	0			0	0			0	0.00					
Underflr Sup Ht Pkup			0	0			0	0			0	0.00					
Supply Air Leakage		0	0	0							0	0.00					
Grand Total ==>	72,005	1,849	73,853	100.00	66,505	100.00	66,505	100.00	-20,167	-31,995	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		CapacityCoil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)				MBh
Main Clg	6.2	73.9	68.4	3,470	75.5	62.7	64.8	57.8	55.6	62.5	Floor	1,354	-32.0	0	0.0	0.0
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	ExFlr	0	0.0	0	0.0	0.0
											Roof	1,354				
Total	6.2	73.9									Wall	722	288	40		

HEATING COIL SELECTION				
Main Htg	Aux Htg	Preheat	Humidif	Opt Vent
-32.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0	0	0.0	0.0
0.0	0</			

Project Name:

Dataset Name: P:\Y070000\Y071268 - 31 West 27th Street - EDAW\calculations\Hvac\edaw 1.trc

TRACE® 700 v6.2 calculated at 10:14 AM on 02/09/2009

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Room Checksums

By AKF

Office 4

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 20					Mo/Hr: 7 / 20					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 82 / 71 / 95					OADB: 82					OADB: 15					SADB	57.8	68.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent			Ra Plenum	75.0	68.0
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total			Return	76.4	68.0
										Btu/h	Btu/h	(%)			Ret/OA	76.4	68.0
Envelope Loads					Envelope Loads					Envelope Loads					Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn BldTD	0.0	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn Frict	0.0	0.0
Roof Cond	1,663	0	1,663	24	1,663	30	0	0	0	-2,060	-2,060	67.40	0	0			
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Glass Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Sub Total ==>	1,663	0	1,663	24	1,663	30	0	0	0	-2,060	-2,060	67.40	0	0			
Internal Loads					Internal Loads					Internal Loads							
Lights	1,808	452	2,259	32	1,808	32	0	0	0	0	0	0.00	0	0			
People	2,000	0	2,000	28	1,000	18	0	0	0	0	0	0.00	0	0			
Misc	1,130	0	1,130	16	1,130	20	0	0	0	0	0	0.00	0	0			
Sub Total ==>	4,937	452	5,389	76	3,937	70	0	0	0	0	0	0.00	0	0			
Ceiling Load					Ceiling Load					Ceiling Load							
Ventilation Load	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Grand Total ==>	6,601	452	7,052	100.00	5,601	100.00	0	0	0	-2,060	-3,056	100.00	0	0			

TEMPERATURES		
	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	75.0	68.0
Return	76.4	68.0
Ret/OA	76.4	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	292	88
Terminal	292	88
Main Fan	292	88
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	88	88
Return	292	88
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.88	0.26
cfm/ton	497.22	
ft²/ton	563.21	
Btu/hr-ft²	21.31	-9.23
No. People	4	

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	0.6	7.1	6.1	292 76.4 63.0 64.8	57.8 54.9 59.9				
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	0.6	7.1							

AREAS			
	Gross Total	Glass	
		ft² (%)	
Floor	331		
Part	0		
ExFlr	0		
Roof	331	0 0	
Wall	0	0 0	

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent °F	Lvg °F
	MBh	cfm		
Main Htg	-3.1	0	0.0	0.0
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	-3.1			

Room Checksums

By AKF

Plotters

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 19					Mo/Hr: 6 / 19					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 71 / 92					OADB: 81					OADB: 15							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total	(%)				
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Roof Cond	0	3,807	3,807	18	0	0	0	0	0	0	-4,449	68.97	0	0.00			
Glass Solar	827	0	827	4	957	6	0	0	0	0	0	0.00	0	0.00			
Glass Cond	197	0	197	1	144	1	0	0	0	-1,025	-1,025	15.90	0	0.00			
Wall Cond	132	60	191	1	115	1	0	0	0	-411	-600	9.30	0	0.00			
Partition	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	1,156	3,867	5,023	24	1,217	8				-1,436	-6,074	94.17					
Internal Loads					Internal Loads					Internal Loads							
Lights	4,625	1,156	5,782	27	4,625	29	0	0	0	0	0	0.00	0	0.00			
People	2,500	0	2,500	12	1,250	8	0	0	0	0	0	0.00	0	0.00			
Misc	7,870	0	7,870	37	7,870	50	0	0	0	0	0	0.00	0	0.00			
Sub Total ==>	14,996	1,156	16,152	76	13,746	87				0	0	0.00					
Ceiling Load	773	-773	0	0	758	5				-2,218	0	0.00					
Ventilation Load	0	0	0	0	0	0				0	0	0.00					
Adj Air Trans Heat	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	0	0.00					
Exhaust Heat		0	0	0						0	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							0	0.00					
Underflr Sup Ht Pkup			0	0							0	0.00					
Supply Air Leakage		0	0	0							0	0.00					
Grand Total ==>	16,925	4,250	21,175	100.00	15,720	100.00				-3,655	-6,451	100.00					

	Cooling	Heating
SADB	57.8	68.0
Ra Plenum	77.9	59.7
Return	77.9	59.7
Ret/OA	77.9	59.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	820	246
Terminal	820	246
Main Fan	820	246
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	246	246
Return	820	246
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.97	0.29
cfm/ton	464.82	
ft²/ton	480.00	
Btu/hr-ft²	25.00	-7.62
No. People	5	

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	1.8	21.2	19.9	818	77.9 63.5	64.8	57.8 54.9	59.8		
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	1.8	21.2								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	847		
Part	0		
ExFlr	0		
Roof	847	0	0
Wall	142	32	23

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent °F	Lvg °F
	MBh	cfm		
Main Htg	-6.5	0	0.0	0.0
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	-6.5			

Room Checksums

By AKF

Reception

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 20					Mo/Hr: 7 / 22					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 82 / 71 / 95					OADB: 79					OADB: 15					SADB	57.8	68.0
															Ra Plenum	78.1	59.7
															Return	78.1	59.7
															Ret/OA	78.1	59.7
															Fn MtrTD	0.0	0.0
															Fn BldTD	0.0	0.0
															Fn Frict	0.0	0.0
Space Sens. + Lat.		Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total				Space Peak Space Sens	Coil Peak Tot Sens	Percent 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	Skylite Solar	0	0	0.00							
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00							
Roof Cond	0	1,440	1,440	26	0	0	Roof Cond	0	-1,623	118.06							
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00							
Glass Cond	0	0	0	0	0	0	Glass Cond	0	0	0.00							
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00							
Partition	0	0	0	0	0	0	Partition	0	0	0.00							
Floor	0	0	0	0	0.00	0	Floor	0	0	0.00							
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00							
Infiltration	0	0	0	0	0	0	Infiltration	0	0	0.00							
Sub Total ==>	0	1,440	1,440	26	0	0	Sub Total ==>	0	-1,623	118.06							
Internal Loads							Internal Loads										
Lights	1,687	422	2,109	39	1,687	53	Lights	0	0	0.00							
People	1,500	0	1,500	27	750	24	People	0	0	0.00							
Misc	425	0	425	8	425	13	Misc	0	0	0.00							
Sub Total ==>	3,612	422	4,034	74	2,862	90	Sub Total ==>	0	0	0.00							
Ceiling Load	303	-303	0	0	318	10	Ceiling Load	-809	0	0.00							
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0.00							
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	0	0.00							
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	0	0	0.00							
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	-107	7.78								
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	355	-25.84								
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 ==>	3,916	1,559	5,475	100.00	3,180	100.00	Grand Total ==>	-809	-1,375	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				CapacityCoil Airflow	Ent °F	Lvg °F		
ton MBh	MBh	cfm	°F °F gr/lb	°F °F gr/lb		ft² (%)				MBh cfm				
Main Clg	0.5	5.5	4.7	165 78.1 63.6 64.8	57.8 52.4 49.9	Floor	309			Main Htg	-1.4	0 0.0 0.0		
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	ExFlr	0			Preheat	0.0	0 0.0 0.0		
						Roof	309	0 0						
Total	0.5	5.5				Wall	0	0 0		Humidif	0.0	0 0.0 0.0		
										Opt Vent	0.0	0 0.0 0.0		
										Total	-1.4			

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	0.5	5.5	4.7	165	78.1	63.6	64.8	57.8	52.4	309			Main Htg	-1.4	0	0.0	0.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	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			Preheat	0.0	0	0.0	0.0
Total	0.5	5.5								309	0	0	Humidif	0.0	0	0.0	0.0
										0	0	0	Opt Vent	0.0	0	0.0	0.0
													Total	-1.4			