

Zone Checksums

By MATENO

1/5 del area total de mesas

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 14			Mo/Hr: 8 / 14		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 106 / 89 / 190			OADB: 106		OADB: 46				SADB			73.8
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak Tot	Percent Of Total	Space Sens	Coil Peak Tot	Percent Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	86.6	86.6	86.6
Envelope Loads														
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof Cond	0	6,700	6,700	33	0	0	0	0	0	-1,826	46	0	0	0
Glass Solar	4,440	0	4,440	22	4,440	41	0	0	0	0	0	86.6	86.6	86.6
Glass Cond	1,208	0	1,208	6	1,208	11	0	0	-888	-888	23	86.6	86.6	86.6
Wall Cond	864	478	1,342	7	864	8	0	0	-314	-497	13	0.0	0.0	0.0
Partition	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Infiltration	4,221	0	4,221	21	1,213	11	0	0	-856	-856	22	0.0	0.0	0.0
Sub Total ==>	10,734	7,179	17,913	88	7,726	71	Sub Total ==>	-2,058	-4,067	103		0.0	0.0	0.0
Internal Loads														
Lights	0	0	0	0	0	0	Lights	0	0	0	0	0	0	0
People	3,000	0	3,000	15	1,500	14	People	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	Misc	0	0	0	0	0	0	0
Sub Total ==>	3,000	0	3,000	15	1,500	14	Sub Total ==>	0	0	0	0	0	0	0
Ceiling Load														
Ceiling Load	1,679	-1,679	0	0	1,679	15	Ceiling Load	-470	0	0	0	0	0	0
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	127	-3	0	0	0	0
Exhaust Heat	0	-452	-452	-2	0	0	OA Preheat Diff.	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0								
Grand Total ==>	15,413	5,048	20,461	100.00	10,904	100.00	Grand Total ==>	-2,528	-3,941	100.00				

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	36	36
Supply	401	401
MinStop/Rh	0	0
Return	437	437
Exhaust	36	36
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.88	0.88
cfm/ton	235.00	
ft2/ton	267.44	
Btu/hr-ft2	44.87	-8.64
No. People	6	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			F	F	gr/lb	F	F	gr/lb
Main Clg	1.7	20.5	16.0	401	86.6	66.3	66.8	49.9	48.6	50.3
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	1.7	20.5								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	456		
Part	0		
ExFlr	0		
Roof	456	0	0
Wall	264	79	30

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			MBh	Lvg
		cfm	F	F
Main Htg	-3.9	401	64.8	73.8
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	-3.9			

Zone Checksums

By MATENO

KITCHEN

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14			Mo/Hr: 7 / 14		Mo/Hr: Heating Design			Cooling			Heating			
Outside Air:		OADB/WB/HR: 109 / 90 / 188			OADB: 109		OADB: 46			SADB			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 (%)	Envelope Loads	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total (%)	Space Sens	Coil Peak Tot Sens	Percent Of Total (%)	Space Sens	Coil Peak Tot Sens	Percent Of Total (%)	
Envelope Loads																
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0	0	Skylite Solar	0	0	0	0	0	
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0	Skylite Cond	0	0	0	0	0	
Roof Cond	0	27,824	27,824	40	0	Roof Cond	0	-6,465	42	Roof Cond	0	0	0	0	0	
Glass Solar	0	0	0	0	0	Glass Solar	0	0	0	Glass Solar	0	0	0	0	0	
Glass Cond	0	0	0	0	0	Glass Cond	0	0	0	Glass Cond	0	0	0	0	0	
Wall Cond	8,057	2,181	10,238	15	8,057	27	Wall Cond	-3,259	-4,302	28	Wall Cond	-3,259	-4,302	28	28	
Partition	0	0	0	0	0	Partition	0	0	0	Partition	0	0	0	0	0	
Exposed Floor	0	0	0	0	0	Exposed Floor	0	0	0	Exposed Floor	0	0	0	0	0	
Infiltration	16,097	0	16,097	23	4,994	17	Infiltration	-3,211	-3,211	21	Infiltration	-3,211	-3,211	21	21	
Sub Total ==>	24,154	30,005	54,159	77	13,051	44	Sub Total ==>	-6,470	-13,978	92	Sub Total ==>	-6,470	-13,978	92	92	
Internal Loads																
Lights	1,365	341	1,707	2	1,365	5	Lights	0	0	0	Lights	0	0	0	0	
People	2,500	0	2,500	4	1,250	4	People	0	0	0	People	0	0	0	0	
Misc	4,500	0	4,500	6	4,500	15	Misc	0	0	0	Misc	0	0	0	0	
Sub Total ==>	8,365	341	8,707	12	7,115	24	Sub Total ==>	0	0	0	Sub Total ==>	0	0	0	0	
Ceiling Load																
Ceiling Load	9,408	-9,408	0	0	9,408	32	Ceiling Load	-2,328	0	0	Ceiling Load	-2,328	0	0	0	
Ventilation Load	0	0	11,961	17	0	0	Ventilation Load	0	-2,386	16	Ventilation Load	0	-2,386	16	16	
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0	Ov/Undr Sizing	0	0	0	0	
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	1,093	-7	-7	Exhaust Heat	1,093	-7	-7	-7	
Exhaust Heat	0	-4,417	-4,417	-6	0	0	OA Preheat Diff.	0	0	0	OA Preheat Diff.	0	0	0	0	
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0	RA Preheat Diff.	0	0	0	0	
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0	Additional Reheat	0	0	0	0	
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	0	0	0	System Plenum Heat	0	0	0	0	
Reheat at Design	0	0	0	0	0	0										
Grand Total ==>	41,927	16,521	70,410	100.00	29,574	100.00	Grand Total ==>	-8,797	-15,271	100.00	Grand Total ==>	-8,797	-15,271	100.00	100.00	

AIRFLOWS		
	Cooling	Heating
Vent	100	100
Infil	135	135
Supply	977	977
MinStop/Rh	0	0
Return	1,112	1,112
Exhaust	235	235
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.2	10.2
cfm/ft2	0.57	0.57
cfm/ton	166.58	
ft2/ton	291.44	
Btu/hr-ft2	41.18	-8.93
No. People	5	

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	5.9	70.4	49.8	977	94.1	70.8	79.1	47.1	46.9	48.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5.9	70.4								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	1,710		
Part	0		
ExFlr	0		
Roof	1,710	0	0
Wall	1,593	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			F	F
Main Htg	-15.3	977	61.9	76.3
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	-15.3			