

Zone Checksums

By MATENO

CHILD ROOM PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 8 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 101		OADB: 46				SADB	60.1	71.3	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total	Space Sens	Coil Peak Tot Sens	Percent Of Total	Plenum	81.3	65.7
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	81.3	65.7
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	2,402	2,402	28	0	0	0	0	0	-787	38	0	0	0
Glass Solar	1,457	0	1,457	17	1,607	29	0	0	0	0	0	0	0	0
Glass Cond	711	0	711	8	636	11	0	0	-530	-530	25	0	0	0
Wall Cond	1,279	552	1,830	21	1,317	23	0	0	-560	-808	39	0	0	0
Partition	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
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sub Total ==></i>	3,447	2,954	6,401	74	3,560	63	<i>Sub Total ==></i>	102	-1,090	-2,125	102	<i>Sub Total ==></i>	0.0	0.0
Internal Loads														
Lights	205	51	256	3	205	4	Lights	0	0	0	0	0	0	0
People	1,000	0	1,000	12	500	9	People	0	0	0	0	0	0	0
Misc	1,000	0	1,000	12	1,000	18	Misc	0	0	0	0	0	0	0
<i>Sub Total ==></i>	2,205	51	2,256	26	1,705	30	<i>Sub Total ==></i>	0	0	0	0	0	0	0
Ceiling Load														
Ventilation Load	374	-374	0	0	344	6	Ceiling Load	-135	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	Ventilation Load	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0	0	0	0	0
Exhaust Heat	0	0	0	0	0	0	Exhaust Heat	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	OA Preheat Diff.	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	Additional Reheat	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	System Plenum Heat	40	-2	-2	-2	0	0	0
<i>Grand Total ==></i>	6,025	2,631	8,657	100.00	5,609	100.00	<i>Grand Total ==></i>	-1,226	-2,085	100.00	-1,226	-2,085	100.00	-1,226

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	347	347
MinStop/Rh	0	0
Return	347	347
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.85	1.85
cfm/ton	480.72	
ft2/ton	259.29	
Btu/hr-ft2	46.28	-11.15
No. People	2	

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	0.7	8.7	8.2	347	81.3	64.5	66.8	60.1	56.4	63.9
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	0.7	8.7								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	187		
Part	0		
ExFlr	0		
Roof	187	0	0
Wall	340	47	14

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			MBh	Lvg
		cfm	F	F
Main Htg	-2.1	347	65.7	71.3
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	-2.1			

Zone Checksums

By MATENO

CHILDS BATH PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 8 / 12			Mo/Hr: 8 / 12		Mo/Hr: Heating Design					Cooling			Heating
Outside Air:		OADB/WB/HR: 101 / 88 / 192			OADB: 101		OADB: 46					SADB	60.6	74.2	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	80.8	65.7	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	80.8	65.7	
Envelope Loads															
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	Ret/OA	80.8	65.7	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	Fn MtrTD	0.0	0.0	
Roof Cond	0	876	876	16	0	0	0	16	0	-313	0	Fn BldTD	0.0	0.0	
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	Fn Frict	0.0	0.0	
Glass Cond	0	0	0	0	0	0	0	0	0	0	0				
Wall Cond	2,824	975	3,800	70	2,824	83	2,824	95	-1,408	-1,910	95				
Partition	0	0	0	0	0	0	0	0	0	0	0				
Exposed Floor	0	0	0	0	0	0	0	0	0	0	0				
Infiltration	0	0	0	0	0	0	0	0	0	0	0				
<i>Sub Total ==></i>	2,825	1,851	4,676	86	2,825	83	2,825	111	-1,408	-2,223	111				
Internal Loads															
Lights	205	51	256	5	205	6	205	0	0	0	0				
People	500		500	9	250	7	250	0	0	0	0				
Misc	0	0	0	0	0	0	0	0	0	0	0				
<i>Sub Total ==></i>	705	51	756	14	455	13	455	0	0	0	0				
Ceiling Load															
Ventilation Load	137	-137	0	0	137	4	137	-54	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0				
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0				
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0				
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0				
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0				
Reheat at Design	0	0	0	0	0	0	0	219	-11	-11	-11				
<i>Grand Total ==></i>	3,666	1,766	5,432	100.00	3,416	100.00	3,416	-1,462	-2,004	100.00	100.00				

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	219	219
MinStop/Rh	0	0
Return	219	219
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	2.94	2.94
cfm/ton	483.20	
ft2/ton	164.37	
Btu/hr-ft2	73.01	-26.94
No. People	1	

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	0.5	5.4	5.2	219	80.8	64.4	66.8	60.6	56.2	62.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.5	5.4								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	74		
Part	0		
ExFlr	0		
Roof	74	0	0
Wall	688	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			MBh	Lvg
	MBh	cfm	F	F
Main Htg	-2.0	219	65.7	74.2
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	-2.0			

Zone Checksums

By MATENO

CHILDS ROOM 2 PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB	60.8	71.1	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total	Space Sens	Coil Peak Tot Sens	Percent Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
Envelope Loads														
Skylite Solar	0	0	0	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	0.0	0.0
Roof Cond	0	2,452	2,452	23	0	0	-804	28	0	0	0	0.0	0.0	0.0
Glass Solar	2,786	0	2,786	27	2,786	37	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	1,826	0	1,826	17	1,826	24	-1,360	48	0	0	0	0.0	0.0	0.0
Wall Cond	266	322	588	6	266	4	-135	11	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sub Total ==>	4,878	2,774	7,652	73	4,878	65	-1,495	87	-1,495	-2,470	87			
Internal Loads														
Lights	273	68	341	3	273	4	0	0	0	0	0	0	0	0
People	1,000	0	1,000	10	500	7	0	0	0	0	0	0	0	0
Misc	1,500	0	1,500	14	1,500	20	0	0	0	0	0	0	0	0
Sub Total ==>	2,773	68	2,841	27	2,273	30	0	0	0	0	0			
Ceiling Load														
Ventilation Load	381	-381	0	0	381	5	-138	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total ==>	8,032	2,461	10,493	100.00	7,532	100.00	-1,633	-2,847	100.00	-1,633	-2,847			

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	490	490
MinStop/Rh	0	0
Return	490	490
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	2.56	2.56
cfm/ton	560.00	
ft2/ton	218.38	
Btu/hr-ft2	54.95	-14.91
No. People	2	

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	0.9	10.5	10.0	490	81.3	64.5	66.8	60.8	57.3	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.9	10.5								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	191		
Part	0		
ExFlr	0		
Roof	191	0	0
Wall	235	121	51

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			MBh	Lvg
	MBh	cfm	F	F
Main Htg	-2.9	490	65.7	71.1
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	-2.9			

Zone Checksums

By MATENO

CORRIDOR PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design			Cooling			Heating	
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46			SADB			73.3	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	81.3	81.3	81.3
Envelope Loads														
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	81.3	81.3	81.3
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	81.3	81.3	81.3
Roof Cond	0	3,098	3,098	86	0	0	0	0	0	-1,015	407	81.3	81.3	81.3
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
<i>Sub Total ==></i>	0	3,098	3,098	86	0	0	0	0	0	-1,015	407	0.0	0.0	0.0
Internal Loads														
Lights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
People	500	0	500	14	250	34	0	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sub Total ==></i>	500	0	500	14	250	34	0	0	0	0	0	0	0	0
Ceiling Load														
Ventilation Load	482	-482	0	0	482	66	-175	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total ==>	982	2,616	3,598	100.00	732	100.00	-175	-250	100.00	-175	-250	100.00	100.00	100.00

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	30	30
MinStop/Rh	0	0
Return	30	30
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.13	0.13
cfm/ton	100.77	
ft2/ton	804.51	
Btu/hr-ft2	14.92	-1.04
No. People	1	

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	0.3	3.6	3.4	30	81.3	64.5	66.8	52.7	37.5	10.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.3	3.6								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	241		
Part	0		
ExFlr	0		
Roof	241	0	0
Wall	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent Lvg	
			MBh	F
Main Htg	-0.3	30	65.7	73.3
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	-0.3			

Zone Checksums

By MATENO

GENERAL BATH PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB	58.3	68.8	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
Envelope Loads														
Skylite Solar	0	0	0	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	0.0	0.0
Roof Cond	0	1,377	1,377	44	0	0	0	148	0	-451	148	0.0	0.0	0.0
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
<i>Sub Total ==></i>	0	1,377	1,377	44	0	0	0	148	0	-451	148	0.0	0.0	0.0
Internal Loads														
Lights	205	51	256	8	205	12	0	0	0	0	0	0	0	0
People	500		500	16	250	15	0	0	0	0	0	0	0	0
Misc	1,000	0	1,000	32	1,000	60	0	0	0	0	0	0	0	0
<i>Sub Total ==></i>	1,705	51	1,756	56	1,455	87	0	0	0	0	0	0	0	0
Ceiling Load														
Ventilation Load	214	-214	0	0	214	13	-78	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exhaust Heat		0	0	0			0	0	0	0	0	0	0	0
Sup. Fan Heat			0	0			0	0	0	0	0	0	0	0
Ret. Fan Heat		0	0	0			0	0	0	0	0	0	0	0
Duct Heat Pkup		0	0	0			0	0	0	0	0	0	0	0
Reheat at Design			0	0			0	0	0	0	0	0	0	0
<i>Grand Total ==></i>	1,919	1,214	3,133	100.00	1,669	100.00	-78	-305	100.00					

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	92	92
MinStop/Rh	0	0
Return	92	92
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	0.86	0.86
cfm/ton	351.95	
ft2/ton	410.67	
Btu/hr-ft2	29.22	-2.85
No. People	1	

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	0.3	3.1	2.9	92	81.3	64.5	66.8	58.3	53.1	53.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.3	3.1								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	107		
Part	0		
ExFlr	0		
Roof	107	0	0
Wall	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
Main Htg	-0.3	92	65.7	68.8
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	-0.3			

Zone Checksums

By MATENO

KITCHEN PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB	55.0	75.5	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
Envelope Loads														
Skylite Solar	0	0	0	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	0.0	0.0
Roof Cond	0	2,671	2,671	15	0	0	-876	13	0	0	0	0.0	0.0	0.0
Glass Solar	3,922	0	3,922	22	3,922	29	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	3,000	0	3,000	17	3,000	22	-2,220	34	-2,220	-2,220	34	0.0	0.0	0.0
Wall Cond	4,542	1,669	6,211	35	4,542	34	-2,660	57	-2,660	-3,712	57	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	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sub Total ==>	11,465	4,340	15,805	90	11,465	86	-4,880	104	-4,880	-6,808	104			
Internal Loads														
Lights	205	51	256	1	205	2	0	0	0	0	0	0	0	0
People	500	0	500	3	250	2	0	0	0	0	0	0	0	0
Misc	1,000	0	1,000	6	1,000	7	0	0	0	0	0	0	0	0
Sub Total ==>	1,705	51	1,756	10	1,455	11	0	0	0	0	0			
Ceiling Load														
Ceiling Load	416	-416	0	0	416	3	-151	0	0	0	0	0	0	0
Ventilation Load	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	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	253	-4	0	0	0	0	0	0
Grand Total ==>	13,585	3,976	17,561	100.00	13,335	100.00	-5,031	-6,555	100.00					

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	615	615
MinStop/Rh	0	0
Return	615	615
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	2.96	2.96
cfm/ton	420.17	
ft2/ton	142.14	
Btu/hr-ft2	84.43	-31.51
No. People	1	

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	1.5	17.6	17.3	615	81.3	61.5	52.2	55.0	51.3	52.0
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	1.5	17.6								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	208		
Part	0		
ExFlr	0		
Roof	208	0	0
Wall	1,443	102	7

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			F	Lvg
Main Htg	-6.6	615	65.7	75.5
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	-6.6			

Zone Checksums

By MATENO

LIVING ROOM PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB			73.6
Space	Plenum	Net	Percent		Space	Percent	Space Peak	Coil Peak	Percent					
Sens. + Lat.	Sens. + Lat	Total	Of Total		Sensible	Of Total	Space Sens	Tot Sens	Of Total					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)	Btu/h	Btu/h	(%)					
Envelope Loads														
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	11,756	11,756	29	0	0	0	-3,854	33	0	0	0	0	0
Glass Solar	15,521	0	15,521	38	15,521	53	0	0	0	0	0	0	0	0
Glass Cond	10,174	0	10,174	25	10,174	35	-7,575	-7,575	65	0	0	0	0	0
Wall Cond	0	1,291	1,291	3	0	0	0	-688	6	0	0	0	0	0
Partition	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
Infiltration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub Total ==>	25,695	13,047	38,742	94	25,695	88	-7,575	-12,116	105					
Internal Loads														
Lights	273	68	341	1	273	1	0	0	0	0	0	0	0	0
People	1,000	0	1,000	2	500	2	0	0	0	0	0	0	0	0
Misc	1,000	0	1,000	2	1,000	3	0	0	0	0	0	0	0	0
Sub Total ==>	2,273	68	2,341	6	1,773	6	0	0	0					
Ceiling Load														
Ventilation Load	1,829	-1,829	0	0	1,829	6	-663	0	0	0	0	0	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total ==>	29,797	11,287	41,084	100.00	29,297	100.00	-8,238	-11,586	100.00					

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	1,351	1,351
MinStop/Rh	0	0
Return	1,351	1,351
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.48	1.48
cfm/ton	394.57	
ft2/ton	267.38	
Btu/hr-ft2	44.88	-12.66
No. People	2	

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
Main Clg	3.4	41.1	40.6	1,351	81.3	61.4	51.9	55.0	50.5	49.0
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	3.4	41.1								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	915		
Part	0		
ExFlr	0		
Roof	915	0	0
Wall	944	675	72

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
Main Htg	-11.6	1,351	65.7	73.6
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	-11.6			

Zone Checksums

By MATENO

MAIN ROOM BATH PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB	60.2	71.8	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	81.3	65.7
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	81.3	65.7
Envelope Loads														
Skylite Solar	0	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0	0
Roof Cond	0	2,897	2,897	31	0	0	0	39	Roof Cond	0	-950	39	0	0
Glass Solar	1,763	0	1,763	19	1,763	30	0	0	Glass Solar	0	0	0	0	0
Glass Cond	1,162	0	1,162	12	1,162	20	0	36	Glass Cond	-865	-865	36	0	0
Wall Cond	849	416	1,265	14	849	14	0	30	Wall Cond	-473	-720	30	0	0
Partition	0	0	0	0	0	0	0	0	Partition	0	0	0	0	0
Exposed Floor	0	0	0	0	0	0	0	0	Exposed Floor	0	0	0	0	0
Infiltration	0	0	0	0	0	0	0	0	Infiltration	0	0	0	0	0
Sub Total ==>	3,774	3,313	7,088	76	3,774	64			Sub Total ==>	-1,338	-2,535	105	Fn MtrTD	0.0
Internal Loads														
Lights	205	51	256	3	205	3	0	0	Lights	0	0	0	Fn BldTD	0.0
People	1,000	0	1,000	11	500	8	0	0	People	0	0	0	Fn Frict	0.0
Misc	1,000	0	1,000	11	1,000	17	0	0	Misc	0	0	0		
Sub Total ==>	2,205	51	2,256	24	1,705	29			Sub Total ==>	0	0	0		
Ceiling Load														
Ceiling Load	451	-451	0	0	451	8	0	0	Ceiling Load	-163	0	0		
Ventilation Load	0	0	0	0	0	0	0	0	Ventilation Load	0	0	0		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0		
Ov/Undr Sizing	0	0	0	0	0	0	0	0	Exhaust Heat	0	0	0		
Exhaust Heat	0	0	0	0	0	0	0	0	OA Preheat Diff.	0	0	0		
Sup. Fan Heat	0	0	0	0	0	0	0	0	RA Preheat Diff.	0	0	0		
Ret. Fan Heat	0	0	0	0	0	0	0	0	Additional Reheat	0	0	0		
Duct Heat Pkup	0	0	0	0	0	0	0	0	System Plenum Heat	119	-5			
Reheat at Design	0	0	0	0	0	0	0	0						
Grand Total ==>	6,430	2,914	9,344	100.00	5,930	100.00			Grand Total ==>	-1,501	-2,416	100.00		

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	369	369
MinStop/Rh	0	0
Return	369	369
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.64	1.64
cfm/ton	473.87	
ft2/ton	289.73	
Btu/hr-ft2	41.42	-10.71
No. People	2	

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	0.8	9.3	8.8	369	81.3	64.5	66.8	60.2	56.2	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	0.8	9.3								

AREAS			
	Gross Total	Glass	
		ft2	(%)
Floor	226		
Part	0		
ExFlr	0		
Roof	226	0	0
Wall	339	77	23

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			F	Lvg
Main Htg	-2.4	369	65.7	71.8
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	-2.4			

Zone Checksums

By MATENO

MAIN ROOM PH-B

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 12			Mo/Hr: 7 / 12		Mo/Hr: Heating Design				Cooling			Heating
Outside Air:		OADB/WB/HR: 104 / 89 / 188			OADB: 104		OADB: 46				SADB	61.3	71.2	
Space Sens.	Plenum Sens.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Plenum	Return	Ret/OA
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Fn MtrTD	Fn BldTD	Fn Frict
Envelope Loads														
Skylite Solar	0	0	0	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	0.0	0.0
Roof Cond	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glass Solar	3,743	0	3,743	40	3,743	40	0	0	0	0	0	0.0	0.0	0.0
Glass Cond	2,466	0	2,466	26	2,466	26	-1,836	50	-1,836	-1,836	50	0.0	0.0	0.0
Wall Cond	0	265	265	3	0	0	0	5	0	-167	5	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	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sub Total ==>	6,209	265	6,474	69	6,209	67	-1,836	54	-2,003	-2,003	54			
Internal Loads														
Lights	273	68	341	4	273	3	0	0	0	0	0	0	0	0
People	1,000	0	1,000	11	500	5	0	0	0	0	0	0	0	0
Misc	1,500	0	1,500	16	1,500	16	0	0	0	0	0	0	0	0
Sub Total ==>	2,773	68	2,841	31	2,273	24	0	0	0	0	0			
Ceiling Load														
Ventilation Load	848	-848	0	0	848	9	-307	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0	0			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	0			
Exhaust Heat	0	0	0	0	0	0	0	0	0	0	0			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	0			
Reheat at Design	0	0	0	0	0	0	0	0	0	0	0			
Grand Total ==>	9,830	-515	9,315	100.00	9,330	100.00	-2,144	46	-3,699	-3,699	100.00			

AIRFLOWS		
	Cooling	Heating
Vent	0	0
Infil	0	0
Supply	627	627
MinStop/Rh	0	0
Return	627	627
Exhaust	0	0
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft2	1.48	1.48
cfm/ton	808.35	
ft2/ton	546.63	
Btu/hr-ft2	21.95	-8.72
No. People	2	

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	0.8	9.3	8.8	627	81.3	64.5	66.8	61.3	57.5	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	9.3								

AREAS		
	Gross Total	Glass
		ft2 (%)
Floor	424	
Part	0	
ExFlr	0	
Roof	0	0
Wall	229	164 72

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	
			F	Lvg
	MBh	cfm	F	F
Main Htg	-3.7	627	65.7	71.2
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	-3.7			