

System Checksums

By RLF

AHU

Variable Volume Reheat (30% Min Flow Default)

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 8 / 16					Mo/Hr: 9 / 16			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 87 / 78 / 130					OADB: 86			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	51.6	100.3
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	78.7	67.6
Roof Cond	0	11,566	11,566	9	0	0	0	0	-4,631	8.12	Return	78.7	67.6
Glass Solar	7,738	0	7,738	6	8,755	11	0	0	0	0.00	Ret/OA	78.7	67.6
Glass/Door Cond	2,962	0	2,962	2	2,595	3	0	-7,438	-7,438	13.03	Fn MtrTD	0.0	0.0
Wall Cond	14,730	5,924	20,654	17	16,248	20	0	-6,491	-9,035	15.83	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	-3,889	-3,889	6.81			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	23,536		23,536	19	4,704	6	0	-14,337	-14,337	25.12			
Sub Total ==>	48,966	17,490	66,456	53	32,303	39	0	-32,155	-39,329	68.92			
Internal Loads					Internal Loads								
Lights	9,665	2,416	12,081	10	9,665	12	0	0	0	0.00	AIRFLOWS		
People	27,900	0	27,900	22	15,500	19	0	0	0	0.00		Cooling	Heating
Misc	20,000	0	20,000	16	20,000	24	0	0	0	0.00	Diffuser	3,158	1,050
Sub Total ==>	57,565	2,416	59,981	48	45,165	55	0	0	0	0.00	Terminal	3,158	1,050
											Main Fan	3,158	1,050
Ceiling Load	5,267	-5,267	0	0	4,978	6	Ceiling Load	-3,346	0	0.00	Sec Fan	0	0
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0.00	Nom Vent	0	0
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	AHU Vent	0	0
Dehumid. Ov Sizing		0	0	0		0	Ov/Undr Sizing	0	0	0.00	Infil	402	402
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat		1,060	-1.86	MinStop/Rh	1,050	1,050
Exhaust Heat		-1,668	-1,668	-1			OA Preheat Diff.		0	0.00	Return	3,560	1,452
Sup. Fan Heat		0	0	0			RA Preheat Diff.		0	0.00	Exhaust	402	402
Ret. Fan Heat		0	0	0			Additional Reheat		-18,798	32.94	Rm Exh	0	0
Duct Heat Pkup		0	0	0							Auxiliary	0	0
Underflr Sup Ht Pkup		0	0	0			Underflr Sup Ht Pkup		0	0.00	Leakage Dwn	0	0
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00	Leakage Ups	0	0
Grand Total ==>	111,798	12,972	124,770	100.00	82,446	100.00	Grand Total ==>	-35,501	-57,068	100.00	ENGINEERING CKS		

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	10.4	124.8	94.2	3,112	78.7	63.9	65.0	51.6	50.0	4,466			Main Htg	-57.1	1,050	51.6	100.3
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
										243			Reheat	-21.6	1,050	51.6	70.0
Total	10.4	124.8								4,977	0	0	Humidif	0.0	0	0.0	0.0
										2,414	313	13	Opt Vent	0.0	0	0.0	0.0
										84	0	0	Total	-57.1			