

Room Checksums

By Trane

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COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 18					Mo/Hr: 11 / 15			Mo/Hr: Heating Design						
Outside Air: OADB/WB/HR: 34 / 30 / 26					OADB: 29			OADB: 13						
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 (%)		SADB	Cooling	Heating
kW	kW	kW	(%)		kW	(%)		kW	kW					
Envelope Loads								Envelope Loads						
Skylite Solar	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		13.6	22.4	
Skylite Cond	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		Ra Plenum	33.2	21.0
Roof Cond	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		Return	23.0	22.0
Glass Solar	0.62	0.00	0.62	0.46	6.43	6.86		0.00	0.00	0.00		Ret/OA	23.7	21.5
Glass/Door Cond	0.63	0.00	0.63	0.46	0.31	0.33		-0.59	-0.59	6.17		Fn MtrTD	0.0	0.0
Wall Cond	3.81	0.34	4.15	3.06	9.67	10.32		-2.01	-2.40	25.08		Fn BldTD	0.0	0.0
Partition/Door	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		Fn Frict	0.0	0.0
Floor	0.00	0.00	0.00	0.00	0	0.00		0.00	0.00	0.00				
Adjacent Floor	0	0	0	0	0	0		0	0	0.00				
Infiltration	5.26		5.26	3.88	0.55	0.59		-0.90	-0.90	9.40				
Sub Total ==>	10.32	0.34	10.66	7.86	16.96	18.09		-3.50	-3.89	40.65				
Internal Loads								Internal Loads						
Lights	15.02	3.76	18.78	13.85	4.29	4.58		0.00	0.00	0.00				
People	16.88	0	17	12.44	9.38	10.01		0.00	0	0.00				
Misc	56.06	0.00	56.06	41.33	60.28	64.31		0.00	0.00	0.00				
Sub Total ==>	87.96	3.76	91.72	67.62	73.95	78.89		0.00	0.00	0.00				
Ceiling Load								Ceiling Load						
Ventilation Load	4.10	-4.10	0.00	0.00	2.83	3.02		-0.39	0	0.00				
Adj Air Trans Heat	0.00	0.00	33.26	24.52	0.00	0.00		0.00	-5.68	59.35				
Dehumid. Ov Sizing	0		0	0	0	0		0	0	0				
Ov/Undr Sizing			0	0				0.00	0.00	0.00				
Exhaust Heat	0.00		0.00	0.00	0.00	0.00			0.00	0.00				
Sup. Fan Heat		0.00	0.00	0.00					0.00	0.00				
Ret. Fan Heat		0.00	0.00	0.00					0.00	0.00				
Duct Heat Pkup		0.00	0.00	0.00					0.00	0.00				
Underflr Sup Ht Pkup			0	0					0	0.00				
Supply Air Leakage		0	0	0					0	0.00				
Grand Total ==>	102.38	0.00	135.64	100.00	93.74	100.00		-3.89	-9.57	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	8,436	8,436
Terminal	8,436	8,436
Main Fan	8,436	8,436
Sec Fan	0	0
Nom Vent	496	496
AHU Vent	496	496
Infil	78	78
MinStop/Rh	0	0
Return	8,515	8,515
Exhaust	574	574
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.9	5.9
Lps/m²	37.66	37.66
Lps/kW	59.22	
m²/kW	1.57	
W/m²	635.55	-43.58
No. People	160	

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	
kW	kW	L/s	°C	°C	g/kg	°C	°C	g/kg			m²	(%)	kW	L/s	°C	°C	
Main Clg	142.42	102.48	8,436	23.7	17.3	9.8	13.6	12.3	8.4	Floor	224		Main Htg	-9.8	8,436	21.5	22.4
Aux Clg	0.00	0.00	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	0.00	0.00	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						
										Roof	0	0	Humidif	0.0	0	0.0	0.0
										Wall	119	12	Opt Vent	0.0	0	0.0	0.0
										Ext Door	0	0	Total	-9.8			
Total	142.42																