

CECIS AGUASCALIENTES

Location	AGUASCALIENTES	
Building owner	INFONAVIT	
Program user	ING MEZA	
Company	INGENOR	
Comments		
By	Trial	
Dataset name	C:\Users\AMH\Documents\TRACE 700 Projects\CEDISAGUAS-01.trc	
Calculation time	10:51 AM on 12/22/2017	
TRACE® 700 version	6.3.2	
Location	Aguascalientes, Mexico	
Latitude	21.9	deg
Longitude	102.3	deg
Time Zone	6	
Elevation	6,260	ft
Barometric pressure	24.1	in. Hg
Air density	0.0611	lb/cu ft
Air specific heat	0.2444	Btu/lb·°F
Density-specific heat product	0.8962	Btu/h·cfm·°F
Latent heat factor	3,945.0	Btu·min/h·cu ft
Enthalpy factor	3.6664	lb·min/hr·cu ft
Summer design dry bulb	93.9	°F
Summer design wet bulb	60.0	°F
Winter design dry bulb	21.0	°F
Summer clearness number	1.00	
Winter clearness number	1.00	
Summer ground reflectance	0.20	
Winter ground reflectance	0.20	
Carbon Dioxide Level	400	ppm
Design simulation period	January - December	
Cooling load methodology	CLTD-CLF (ASHRAE TFM)	
Heating load methodology	UATD	



System Checksums

By Trial

UGAR CECIS

Variable Temperature Constant Volume

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: Sum of		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: Peaks		OADB: 21		OADB: 21				SADB	55.0	90.8
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	76.6	70.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Fn MtrTD	0.1	0.0	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Fn Frict	0.5	0.0			
Roof Cond	186,823	0	186,823	30	186,613	35	Roof Cond	15.92						
Glass Solar	19,935	0	19,935	3	19,842	4	Glass Solar	0	0.00					
Glass/Door Cond	5,487	0	5,487	1	5,514	1	Glass/Door Cond	3.45						
Wall Cond	68,240	0	68,240	11	68,513	13	Wall Cond	13.64						
Partition/Door	31,406	0	31,406	5	31,570	6	Partition/Door	17.09						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	311,891	0	311,891	50	312,052	58	Sub Total ==>	50.11						
Internal Loads				Internal Loads								AIRFLOWS		
Lights	36,663	0	36,663	6	36,707	7	Lights	0	0.00			Diffuser	29,798	29,798
People	155,923	0	155,923	25	83,174	16	People	0	0.00			Terminal	29,798	29,798
Misc	102,108	0	102,108	16	102,139	19	Misc	0	0.00			Main Fan	29,798	29,798
Sub Total ==>	294,694	0	294,694	47	222,020	42	Sub Total ==>	0	0.00			Sec Fan	0	0
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0.00			Nom Vent	2,663	0
Ventilation Load	0	0	2,890	0	0	0	Ventilation Load	0	0.00			AHU Vent	2,663	0
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0			Infil	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	32.50	32.50			MinStop/Rh	0	0
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0.00			Return	29,798	29,798
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	11.83	11.83			Exhaust	2,663	0
Sup. Fan Heat	0	17,658	3	3	3	3	RA Preheat Diff.	5.56	5.56			Rm Exh	0	0
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0.00			Auxiliary	0	0
Duct Heat Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00			Leakage Dwn	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	Supply Air Leakage	0	0.00			Leakage Ups	0	0
Supply Air Leakage	0	0	0	0	0	0	Grand Total ==>	100.00	100.00			ENGINEERING CKS		
Grand Total ==>	606,585	0	627,133	100.00	534,072	100.00	Grand Total ==>	100.00	100.00			% OA	8.9	0.0
												cfm/ft²	1.70	1.70
												cfm/ton	570.17	
												ft²/ton	335.24	
												Btu/hr-ft²	35.80	0.00
												No. People	355	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								ft²
Main Clg	52.3	627.1	591.6	29,798	76.5	59.2	65.8	54.3	51.0	63.7	Floor	17,520		Main Htg	0.0	29,798	65.6	90.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	6,047		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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0		Humidif	0.0	0	0.0	0.0
Total	52.3	627.1									Roof	17,520	0	Opt Vent	0.0	0	0.0	0.0
											Wall	4,478	459	Total	0.0			
											Ext Door	0	0					

Zone Checksums

By Trial

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COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)	75.0	76.7	0.1	0.2	0.5	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	140,164	0	140,164	32	139,954	Roof Cond	-80,585	16.07						
Glass Solar	5,941	0	5,941	1	5,848	Glass Solar	0	0.00						
Glass/Door Cond	1,855	0	1,855	0	1,882	Glass/Door Cond	-7,752	1.55						
Wall Cond	61,523	0	61,523	14	61,796	Wall Cond	-81,278	16.21						
Partition/Door	19,047	0	19,047	4	19,210	Partition/Door	-68,170	13.60						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	228,529	0	228,529	52	228,689	Sub Total ==>	-237,785	47.43						
Internal Loads				Internal Loads										
Lights	29,996	0	29,996	7	30,040	Lights	0	0.00						
People	116,796	0	116,796	26	62,292	People	0	0.00						
Misc	54,093	0	54,093	12	54,124	Misc	0	0.00						
Sub Total ==>	200,885	0	200,885	45	146,456	Sub Total ==>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	1,335	0	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-175,943	35.09						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-59,610	11.89						
Sup. Fan Heat	0	0	12,403	3	0	RA Preheat Diff.	-28,000	5.58						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	429,414	0	443,152	100.00	375,145	Grand Total ==>	-413,728	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	20,931	20,931
Terminal	20,931	20,931
Main Fan	20,931	20,931
Sec Fan	0	0
Nom Vent	1,995	0
AHU Vent	1,995	0
Infil	0	0
MinStop/Rh	0	0
Return	20,931	20,931
Exhaust	1,995	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.5	0.0
cfm/ft²	1.59	1.59
cfm/ton	566.77	
ft²/ton	357.01	
Btu/hr-ft²	33.61	0.00
No. People	266	

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	36.9	443.2	417.3	20,931	76.6	59.3	66.1	54.3	51.0	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	36.9	443.2								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	13,184		
Part	3,586		
Int Door	0		
ExFlr	0		
Roof	13,184	0	0
Wall	3,713	153	4
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	20,931	65.3	92.1
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	0.0			

Zone Checksums

By Trial

CECIS

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)						
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	46,660	0	46,660	25	46,660	29	-26,502	15.48						
Glass Solar	13,994	0	13,994	8	13,994	9	0	0.00						
Glass/Door Cond	3,632	0	3,632	2	3,632	2	-15,467	9.04						
Wall Cond	6,717	0	6,717	4	6,717	4	-10,480	6.12						
Partition/Door	12,359	0	12,359	7	12,359	8	-46,780	27.33						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
<i>Sub Total ==></i>	83,363	0	83,363	45	83,363	52	-99,230	57.97						
Internal Loads				Internal Loads										
Lights	6,667	0	6,667	4	6,667	4	0	0.00						
People	39,127	0	39,127	21	20,882	13	0	0.00						
Misc	48,014	0	48,014	26	48,014	30	0	0.00						
<i>Sub Total ==></i>	93,809	0	93,809	51	75,564	48	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	1,555	1	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	0	-42,620	24.90						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-19,945	11.65						
Sup. Fan Heat	0	0	5,255	3	0	0	-9,368	5.47						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	177,172	0	183,981	100.00	158,927	100.00	-141,850	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	8,867	8,867
Terminal	8,867	8,867
Main Fan	8,867	8,867
Sec Fan	0	0
Nom Vent	668	0
AHU Vent	668	0
Infil	0	0
MinStop/Rh	0	0
Return	8,867	8,867
Exhaust	668	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	7.5	0.0
cfm/ft²	2.05	2.05
cfm/ton	578.34	
ft²/ton	282.81	
Btu/hr-ft²	42.43	0.00
No. People	89	

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	15.3	184.0	174.2	8,867	76.3	59.0	65.1	54.3	50.8	63.1
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	15.3	184.0								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	4,336		
Part	2,461		
Int Door	0		
ExFlr	0		
Roof	4,336	0	0
Wall	765	306	40
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	8,867	66.3	87.9
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	0.0			

Room Checksums

By Trial

AREA 1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	3,835	0	3,835	15	3,835	16	-2,144	9.24						
Glass Solar	4,702	0	4,702	18	4,702	19	0	0.00						
Glass/Door Cond	1,007	0	1,007	4	1,007	4	-3,596	15.49						
Wall Cond	2,059	0	2,059	8	2,059	9	-2,437	10.50						
Partition/Door	2,224	0	2,224	9	2,224	9	-9,297	40.05						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	13,827	0	13,827	53	13,827	57	-17,474	75.27						
Internal Loads				Internal Loads										
Lights	2,057	0	2,057	8	2,057	9	0	0.00						
People	2,165	0	2,165	8	1,140	5	0	0.00						
Misc	7,142	0	7,142	27	7,142	30	0	0.00						
Sub Total ==>	11,364	0	11,364	44	10,339	43	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	116	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	0	-4,095	17.64						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-1,120	4.83						
Sup. Fan Heat	0	0	799	3	0	0	-526	2.27						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	25,190	0	26,105	100.00	24,165	100.00	-21,569	-23,215	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	1,348	1,348
Terminal	1,348	1,348
Main Fan	1,348	1,348
Sec Fan	0	0
Nom Vent	38	0
AHU Vent	38	0
Infil	0	0
MinStop/Rh	0	0
Return	1,348	1,348
Exhaust	38	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	2.8	0.0
cfm/ft²	3.84	3.84
cfm/ton	619.76	
ft²/ton	161.27	
Btu/hr-ft²	74.41	0.00
No. People	5.0	14.3/1000 ft²

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	2.2	26.1	25.6	1,348	75.5	59.0	66.1	54.3	51.4	65.4
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	2.2	26.1								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	351		
Part	489		
Int Door	0		
ExFlr	0		
Roof	351	0	0
Wall	178	71	40
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	1,348	68.6	87.9
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	0.0			

Room Checksums

By Trial

CAFETERIA

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES							
Peaked at Time:		Mo/Hr: 6 / 17			Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Mo/Hr: Heating Design			Cooling			Heating						
Outside Air:		OADB/WB/HR: 88 / 60 / 50			OADB: 91		OADB: 21			OADB: 21			SADB			Ra Plenum						
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict						
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	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	0.00	Skylite Solar	0	0	0.00	Skylite Solar	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00	Skylite Cond	0	0	0.00	Skylite Cond	0	0	0.00						
Roof Cond	7,914	0	7,914	24	8,105	29	-4,947	13.29	Roof Cond	-4,947	-4,947	13.29	Roof Cond	-4,947	-4,947	13.29						
Glass Solar	978	0	978	3	968	3	0	0.00	Glass Solar	0	0	0.00	Glass Solar	0	0	0.00						
Glass/Door Cond	207	0	207	1	244	1	-930	2.50	Glass/Door Cond	-930	-930	2.50	Glass/Door Cond	-930	-930	2.50						
Wall Cond	6,537	0	6,537	20	6,400	23	-10,407	27.95	Wall Cond	-10,407	-10,407	27.95	Wall Cond	-10,407	-10,407	27.95						
Partition/Door	887	0	887	3	1,050	4	-3,606	9.68	Partition/Door	-3,606	-3,606	9.68	Partition/Door	-3,606	-3,606	9.68						
Floor	0	0	0	0	0	0	0	0.00	Floor	0	0	0.00	Floor	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00	Adjacent Floor	0	0	0.00	Adjacent Floor	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00	Infiltration	0	0	0.00	Infiltration	0	0	0.00						
Sub Total ==>	16,522	0	16,522	50	16,767	60	-19,889	53.42	Sub Total ==>	-19,889	-19,889	53.42	Sub Total ==>	-19,889	-19,889	53.42						
Internal Loads					Internal Loads					Internal Loads												
Lights	5,016	0	5,016	15	5,016	18	0	0.00	Lights	0	0	0.00	Lights	0	0	0.00						
People	8,777	0	8,777	27	4,677	17	0	0.00	People	0	0	0.00	People	0	0	0.00						
Misc	1,327	0	1,327	4	1,327	5	0	0.00	Misc	0	0	0.00	Misc	0	0	0.00						
Sub Total ==>	15,120	0	15,120	46	11,020	40	0	0.00	Sub Total ==>	0	0	0.00	Sub Total ==>	0	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00	Ceiling Load	0	0	0.00	Ceiling Load	0	0	0.00						
Ventilation Load	0	0	191	1	0	0	0	0.00	Ventilation Load	0	0	0.00	Ventilation Load	0	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	-10,756	28.89	Ov/Undr Sizing	-10,756	-10,756	28.89	Ov/Undr Sizing	-10,756	-10,756	28.89						
Exhaust Heat	0	0	0	0	0	0	0	0.00	Exhaust Heat	0	0	0.00	Exhaust Heat	0	0	0.00						
Sup. Fan Heat	0	0	919	3	0	0	-4,482	12.04	OA Preheat Diff.	-4,482	-4,482	12.04	OA Preheat Diff.	-4,482	-4,482	12.04						
Ret. Fan Heat	0	0	0	0	0	0	-2,105	5.65	RA Preheat Diff.	-2,105	-2,105	5.65	RA Preheat Diff.	-2,105	-2,105	5.65						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	Additional Reheat	0	0	0.00	Additional Reheat	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	System Plenum Heat	0	0	0.00	System Plenum Heat	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	Underflr Sup Ht Pkup	0	0	0.00	Underflr Sup Ht Pkup	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	Supply Air Leakage	0	0	0.00	Supply Air Leakage	0	0	0.00						
Grand Total ==>	31,641	0	32,750	100.00	27,787	100.00	-30,645	100.00	Grand Total ==>	-30,645	-37,232	100.00	Grand Total ==>	-30,645	-37,232	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	1,550	1,550
Terminal	1,550	1,550
Main Fan	1,550	1,550
Sec Fan	0	0
Nom Vent	150	0
AHU Vent	150	0
Infil	0	0
MinStop/Rh	0	0
Return	1,550	1,550
Exhaust	150	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.7	0.0
cfm/ft²	1.92	1.92
cfm/ton	568.05	
ft²/ton	296.53	
Btu/hr-ft²	40.47	0.00
No. People	20.0	24.7/1000 ft²

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	2.7	32.8	30.3	1,550	76.3	59.3	66.7	54.3	51.1	64.1
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	2.7	32.8								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	809		
Part	190		
Int Door	0		
ExFlr	0		
Roof	809	0	0
Wall	474	18	4
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	1,550	65.3	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21		OADB: 21				SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	75.6	70.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn BldTD	0.2	0.0
Roof Cond	1,507	0	1,507	14	1,507	15	Roof Cond	7.93	Roof Cond	-946	-946	Fn Frict	0.5	0.0
Glass Solar	191	0	191	2	191	2	Glass Solar	0.00	Glass Solar	0	0.00			
Glass/Door Cond	78	0	78	1	78	1	Glass/Door Cond	2.60	Glass/Door Cond	-310	-310			
Wall Cond	2,209	0	2,209	20	2,209	22	Wall Cond	22.82	Wall Cond	-2,722	-2,722			
Partition/Door	1,981	0	1,981	18	1,981	20	Partition/Door	58.37	Partition/Door	-6,963	-6,963			
Floor	0	0	0	0	0	0	Floor	0.00	Floor	0	0.00			
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0.00	Adjacent Floor	0	0.00			
Infiltration	0	0	0	0	0	0	Infiltration	0.00	Infiltration	0	0.00			
<i>Sub Total ==></i>	5,967	0	5,967	55	5,967	60	<i>Sub Total ==></i>	91.72	<i>Sub Total ==></i>	-10,941	-10,941			
Internal Loads				Internal Loads				Internal Loads						
Lights	919	0	919	8	919	9	Lights	0.00	Lights	0	0.00			
People	1,303	0	1,303	12	688	7	People	0.00	People	0	0.00			
Misc	2,347	0	2,347	22	2,347	24	Misc	0.00	Misc	0	0.00			
<i>Sub Total ==></i>	4,569	0	4,569	42	3,954	40	<i>Sub Total ==></i>	0.00	<i>Sub Total ==></i>	0	0.00			
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0.00	Ceiling Load	0	0.00			
Ventilation Load	0	0	-16	0	0	0	Ventilation Load	0.00	Ventilation Load	0	0.00			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	Adj Air Trans Heat	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0.00	Ov/Undr Sizing	0	0.00			
Exhaust Heat	0	0	0	0	0	0	Exhaust Heat	0.00	Exhaust Heat	0	0.00			
Sup. Fan Heat	0	0	328	3	0	0	OA Preheat Diff.	5.64	OA Preheat Diff.	-672	-672			
Ret. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	2.65	RA Preheat Diff.	-316	-316			
Duct Heat Pkup	0	0	0	0	0	0	Additional Reheat	0.00	Additional Reheat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	System Plenum Heat	0.00	System Plenum Heat	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Underflr Sup Ht Pkup	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0.00	Supply Air Leakage	0	0.00			
<i>Grand Total ==></i>	10,536	0	10,848	100.00	9,921	100.00	<i>Grand Total ==></i>	100.00	<i>Grand Total ==></i>	-10,941	-11,929			

AIRFLOWS		
	Cooling	Heating
Diffuser	554	554
Terminal	554	554
Main Fan	554	554
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	554	554
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	4.1	0.0
cfm/ft²	3.58	3.58
cfm/ton	612.29	
ft²/ton	171.16	
Btu/hr-ft²	70.11	0.00
No. People	3.0	19.4/1000 ft²

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	0.9	10.9	10.6	554	75.6	59.3	67.4	54.3	51.6	66.5
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	0.9	10.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	155		
Part	366		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	554	68.0	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 10

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 10 / 16		Mo/Hr: 10 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 84 / 57 / 44		OADB: 84		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
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	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	1,655	0	1,655	17	1,655	19	-1,227	11.31						
Glass Solar	310	0	310	3	310	3	0	0.00						
Glass/Door Cond	35	0	35	0	35	0	-310	2.86						
Wall Cond	2,580	0	2,580	27	2,580	29	-2,722	25.08						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
<i>Sub Total ==></i>	4,580	0	4,580	47	4,580	51	-4,259	39.25						
Internal Loads				Internal Loads										
Lights	1,223	0	1,223	13	1,223	14	0	0.00						
People	1,311	0	1,311	13	696	8	0	0.00						
Misc	2,444	0	2,444	25	2,444	27	0	0.00						
<i>Sub Total ==></i>	4,978	0	4,978	51	4,363	49	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	-136	-1	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	0	-5,604	51.65						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-672	6.20						
Sup. Fan Heat	0	0	296	3	0	0	-316	2.91						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	9,558	0	9,718	100.00	8,943	100.00	-9,863	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	499	499
Terminal	499	499
Main Fan	499	499
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	499	499
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	4.5	0.0
cfm/ft²	2.49	2.49
cfm/ton	616.14	
ft²/ton	247.86	
Btu/hr-ft²	48.41	0.00
No. People	3.0	14.9/1000 ft²

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	0.8	9.7	9.4	499	75.4	59.2	67.4	54.3	51.6	66.3
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	0.8	9.7								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	201		
Part	0		
Int Door	0		
ExFlr	0		
Roof	201	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	499	67.8	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 11

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 94		OADB: 21		OADB: 21		SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.1	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.5	0.0
Roof Cond	1,695	0	1,695	19	21	Roof Cond	-946	9.63	Roof Cond	-946	9.63	AIRFLOWS		
Glass Solar	194	0	194	2	2	Glass Solar	0	0.00	Glass Solar	0	0.00	Diffuser	447	447
Glass/Door Cond	87	0	87	1	1	Glass/Door Cond	-310	3.16	Glass/Door Cond	-310	3.16	Terminal	447	447
Wall Cond	2,095	0	2,095	23	26	Wall Cond	-2,722	27.71	Wall Cond	-2,722	27.71	Main Fan	447	447
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	Partition/Door	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	Floor	0	0.00	Floor	0	0.00	Nom Vent	23	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0.00	AHU Vent	23	0
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Infiltration	0	0.00	Infil	0	0
Sub Total ==>	4,071	0	4,071	46	51	Sub Total ==>	-3,978	40.50	Sub Total ==>	-3,978	40.50	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	447	447
Lights	913	0	913	10	11	Lights	0	0.00	Lights	0	0.00	Exhaust	23	0
People	1,301	0	1,301	15	9	People	0	0.00	People	0	0.00	Rm Exh	0	0
Misc	2,340	0	2,340	26	29	Misc	0	0.00	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	4,553	0	4,553	51	49	Sub Total ==>	0	0.00	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	0	48	1	0	Ventilation Load	0	0.00	Ventilation Load	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	Adj Air Trans Heat	0	0	% OA	5.0	0.0
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,855	49.44	Ov/Undr Sizing	-4,855	49.44	cfm/ft²	2.89	2.89
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00	Exhaust Heat	0	0.00	cfm/ton	600.00	
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.85	OA Preheat Diff.	-672	6.85	ft²/ton	207.76	
Sup. Fan Heat	0	265	3	0	3	RA Preheat Diff.	-316	3.22	RA Preheat Diff.	-316	3.22	Btu/hr-ft²	57.76	0.00
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0.00	No. People	3.0	19.4/1000 ft²
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00	System Plenum Heat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
Grand Total ==>	8,624	0	8,937	100.00	8,009	Grand Total ==>	-8,833	100.00	Grand Total ==>	-9,821	100.00			

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	0.7	8.9	8.7	447	76.0	59.3	67.2	54.3	51.5	66.0	Floor	155				Main Htg	0.0	447	67.5	92.1
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	Int Door	0				Preheat	0.0	0	0.0	0.0
											ExFlr	0				Humidif	0.0	0	0.0	0.0
Total	0.7	8.9									Roof	155	0	0		Opt Vent	0.0	0	0.0	0.0
											Wall	125	6	5		Total	0.0			
											Ext Door	0	0	0						

Room Checksums

By Trial

OFICINA 12

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 94		OADB: 21		OADB: 21		SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.1	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.5	0.0
Roof Cond	1,695	0	1,695	19	21	Roof Cond	-946	9.63	Roof Cond	-946	9.63	AIRFLOWS		
Glass Solar	194	0	194	2	2	Glass Solar	0	0.00	Glass Solar	0	0.00	Diffuser	447	447
Glass/Door Cond	87	0	87	1	1	Glass/Door Cond	-310	3.16	Glass/Door Cond	-310	3.16	Terminal	447	447
Wall Cond	2,095	0	2,095	23	26	Wall Cond	-2,722	27.71	Wall Cond	-2,722	27.71	Main Fan	447	447
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	Partition/Door	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	Floor	0	0.00	Floor	0	0.00	Nom Vent	23	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0.00	AHU Vent	23	0
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Infiltration	0	0.00	Infil	0	0
Sub Total ==>	4,071	0	4,071	46	51	Sub Total ==>	-3,978	40.50	Sub Total ==>	-3,978	40.50	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	447	447
Lights	913	0	913	10	11	Lights	0	0.00	Lights	0	0.00	Exhaust	23	0
People	1,301	0	1,301	15	9	People	0	0.00	People	0	0.00	Rm Exh	0	0
Misc	2,340	0	2,340	26	29	Misc	0	0.00	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	4,553	0	4,553	51	49	Sub Total ==>	0	0.00	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	0	48	1	0	Ventilation Load	0	0.00	Ventilation Load	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	Adj Air Trans Heat	0	0	% OA	5.0	0.0
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,855	49.44	Ov/Undr Sizing	-4,855	49.44	cfm/ft²	2.89	2.89
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00	Exhaust Heat	0	0.00	cfm/ton	600.00	
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.85	OA Preheat Diff.	-672	6.85	ft²/ton	207.76	
Sup. Fan Heat	0	265	3	0	3	RA Preheat Diff.	-316	3.22	RA Preheat Diff.	-316	3.22	Btu/hr-ft²	57.76	0.00
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0.00	No. People	3.0	19.4/1000 ft²
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00	System Plenum Heat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
Grand Total ==>	8,624	0	8,937	100.00	8,009	Grand Total ==>	-8,833	100.00	Grand Total ==>	-9,821	100.00			

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	0.7	8.9	8.7	447	76.0	59.3	67.2	54.3	51.5	66.0	Floor	155				Main Htg	0.0	447	67.5	92.1
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	Int Door	0				Preheat	0.0	0	0.0	0.0
											ExFlr	0								
Total	0.7	8.9									Roof	155	0	0		Humidif	0.0	0	0.0	0.0
											Wall	125	6	5		Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0		Total	0.0			

Room Checksums

By Trial

OFICINA 13

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	1,662	0	1,662	17	1,662	Roof Cond	-946	8.88						
Glass Solar	191	0	191	2	191	Glass Solar	0	0.00						
Glass/Door Cond	86	0	86	1	86	Glass/Door Cond	-310	2.91						
Wall Cond	1,964	0	1,964	20	1,964	Wall Cond	-2,722	25.56						
Partition/Door	904	0	904	9	904	Partition/Door	-3,283	30.83						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
<i>Sub Total ==></i>	4,808	0	4,808	50	4,808	<i>Sub Total ==></i>	-7,261	68.19						
Internal Loads				Internal Loads										
Lights	918	0	918	9	918	Lights	0	0.00						
People	1,303	0	1,303	13	688	People	0	0.00						
Misc	2,345	0	2,345	24	2,345	Misc	0	0.00						
<i>Sub Total ==></i>	4,565	0	4,565	47	3,950	<i>Sub Total ==></i>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	30	0	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	-2,398	22.53						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat		0	0	0		OA Preheat Diff.	-672	6.31						
Sup. Fan Heat			290	3		RA Preheat Diff.	-316	2.97						
Ret. Fan Heat		0	0	0		Additional Reheat	0	0.00						
Duct Heat Pkup		0	0	0		System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage		0	0	0		Supply Air Leakage	0	0.00						
Grand Total ==>	9,373	0	9,693	100.00	8,758	Grand Total ==>	-9,659	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	489	489
Terminal	489	489
Main Fan	489	489
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	489	489
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	4.6	0.0
cfm/ft²	3.16	3.16
cfm/ton	604.94	
ft²/ton	191.55	
Btu/hr-ft²	62.65	0.00
No. People	3.0	19.4/1000 ft²

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	0.8	9.7	9.4	489	75.8	59.3	67.3	54.3	51.6	66.3
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	0.8	9.7								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	155		
Part	173		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	0.0	489	67.7	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 14

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21						SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	75.8	70.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.2	0.0
Roof Cond	1,662	0	1,662	17	1,662	19	-946	8.88	-946	-946	8.88	Fn Frict	0.5	0.0
Glass Solar	191	0	191	2	191	2	0	0.00	0	0	0.00			
Glass/Door Cond	86	0	86	1	86	1	-310	2.91	-310	-310	2.91			
Wall Cond	1,964	0	1,964	20	1,964	22	-2,722	25.56	-2,722	-2,722	25.56			
Partition/Door	904	0	904	9	904	10	-3,283	30.83	-3,283	-3,283	30.83			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	4,808	0	4,808	50	4,808	55	-7,261	68.19	-7,261	-7,261	68.19			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	918	0	918	9	918	10	0	0.00	0	0	0.00	Cooling	Heating	
People	1,303	0	1,303	13	688	8	0	0.00	0	0	0.00	Diffuser	489	489
Misc	2,345	0	2,345	24	2,345	27	0	0.00	0	0	0.00	Terminal	489	489
<i>Sub Total ==></i>	4,565	0	4,565	47	3,950	45	0	0.00	0	0	0.00	Main Fan	489	489
Ceiling Load				Ceiling Load								Sec Fan	0	0
Ventilation Load	0	0	30	0	0	0	0	0.00	0	0	0.00	Nom Vent	23	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	23	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil	0	0
Ov/Undr Sizing	0	0	0	0	0	0	-2,398	22.53	-2,398	-2,398	22.53	MinStop/Rh	0	0
Exhaust Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	489	489
Sup. Fan Heat	0	0	290	3	0	0	0	0.00	0	0	0.00	Exhaust	23	0
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	Rm Exh	0	0
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Auxiliary	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Ups	0	0
<i>Grand Total ==></i>	9,373	0	9,693	100.00	8,758	100.00	-9,659	100.00	-9,659	-10,647	100.00	ENGINEERING CKS		
												% OA	4.6	0.0
												cfm/ft²	3.16	3.16
												cfm/ton	604.94	
												ft²/ton	191.55	
												Btu/hr-ft²	62.65	0.00
												No. People	3.0	19.4/1000 ft²

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
Main Clg	0.8	9.7	9.4	489	75.8	59.3	67.3	54.3	51.6	66.3	Floor	155		Main Htg	0.0	489	67.7	92.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	173		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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.8	9.7									Roof	155	0	Humidif	0.0	0	0.0	0.0
											Wall	125	6	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By Trial

OFICINA 15

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 6 / 17		Mo/Hr: 6 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 88 / 60 / 50		OADB: 88		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	1,417	0	1,417	14	1,417	15	-894	9.47						
Glass Solar	1,796	0	1,796	17	1,796	19	0	0.00						
Glass/Door Cond	510	0	510	5	510	5	-2,325	24.63						
Wall Cond	909	0	909	9	909	10	-1,576	16.69						
Partition/Door	892	0	892	9	892	9	-3,659	38.75						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	5,524	0	5,524	53	5,524	58	-8,455	89.54						
Internal Loads				Internal Loads										
Lights	893	0	893	9	893	9	0	0.00						
People	1,312	0	1,312	13	697	7	0	0.00						
Misc	2,358	0	2,358	23	2,358	25	0	0.00						
Sub Total ==>	4,563	0	4,563	44	3,948	42	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	50	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	0	0	0.00						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	0	0.00						
Sup. Fan Heat	0	0	313	3	0	0	-672	7.12						
Ret. Fan Heat	0	0	0	0	0	0	-316	3.34						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	10,088	0	10,451	100.00	9,473	100.00	-8,455	-9,443	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	529	529
Terminal	529	529
Main Fan	529	529
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	529	529
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	4.3	0.0
cfm/ft²	3.61	3.61
cfm/ton	606.85	
ft²/ton	168.02	
Btu/hr-ft²	71.42	0.00
No. People	3.0	20.5/1000 ft²

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	0.9	10.5	10.1	529	75.6	59.0	66.1	54.3	51.2	64.7
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	146		
Part	192		
Int Door	0		
ExFlr	0		
Roof	146	0	0
Wall	115	46	40
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	529	67.9	87.9
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	0.0			

Room Checksums

By Trial

OFICINA 16

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 6 / 17		Mo/Hr: 6 / 17		Mo/Hr: Heating Design			Cooling		Heating	SADB	55.0	87.9	
Outside Air:		OADB/WB/HR: 88 / 60 / 50		OADB: 88		OADB: 21			Ra Plenum		75.0	70.0	Return	75.0	70.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="3"></td> </th>	Fn Frict <td colspan="3"></td>			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)	75.6	0.1	0.0	0.0			
Envelope Loads				Envelope Loads							AIRFLOWS				
Skylite Solar	0	0	0	0	0	0	0	0.00	Diffuser	529	529	529	Cooling	Heating	529
Skylite Cond	0	0	0	0	0	0	0	0.00	Terminal	529	529	529	529	529	529
Roof Cond	1,417	0	1,417	14	1,417	15	-894	9.47	Main Fan	529	529	529	0	0	0
Glass Solar	1,796	0	1,796	17	1,796	19	0	0.00	Sec Fan	0	0	0	0	0	0
Glass/Door Cond	510	0	510	5	510	5	-2,325	24.63	Nom Vent	23	0	0	23	0	0
Wall Cond	909	0	909	9	909	10	-1,576	16.69	AHU Vent	23	0	0	0	0	0
Partition/Door	892	0	892	9	892	9	-3,659	38.75	Infil	0	0	0	0	0	0
Floor	0	0	0	0	0	0	0	0.00	MinStop/Rh	0	0	0	0	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	Return	529	529	529	529	529	529
Infiltration	0	0	0	0	0	0	0	0.00	Exhaust	23	0	0	23	0	0
Sub Total ==>	5,524	0	5,524	53	5,524	58	-8,455	89.54	Rm Exh	0	0	0	0	0	0
Internal Loads				Internal Loads							ENGINEERING CKS				
Lights	893	0	893	9	893	9	0	0.00	% OA	4.3	0.0	0.0	4.3	0.0	0.0
People	1,312	0	1,312	13	697	7	0	0.00	cfm/ft²	3.61	3.61	3.61	3.61	3.61	3.61
Misc	2,358	0	2,358	23	2,358	25	0	0.00	cfm/ton	606.85	606.85	606.85	606.85	606.85	606.85
Sub Total ==>	4,563	0	4,563	44	3,948	42	0	0.00	ft²/ton	168.02	168.02	168.02	168.02	168.02	168.02
Grand Total ==>	10,088	0	10,451	100.00	9,473	100.00	-8,455	100.00	Btu/hr-ft²	71.42	71.42	71.42	71.42	71.42	71.42
Ceiling Load				Ceiling Load							No. People				
Ventilation Load	0	0	50	0	0	0	0	0.00	3.0	20.5	20.5	20.5	20.5	20.5	20.5
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00							
Dehumid. Ov Sizing	0	0	0	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	-672	7.12							
Sup. Fan Heat	0	0	313	3	0	0	-316	3.34							
Ret. Fan Heat	0	0	0	0	0	0	0	0.00							
Duct Heat Pkup	0	0	0	0	0	0	0	0.00							
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00							
Supply Air Leakage	0	0	0	0	0	0	0	0.00							

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	%	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.9	10.5	10.1	529	75.6	59.0	66.1	54.3	51.2	64.7	Floor	146		Main Htg	0.0	529	67.9	87.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	192		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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.9	10.5									Roof	146	0	Humidif	0.0	0	0.0	0.0
											Wall	115	46	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By Trial

OFICINA 2

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Cooling		Heating			
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21			SADB		Ra Plenum	Return		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict		
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser	451	451			
Roof Cond	1,546	0	1,546	17	1,546	19	-946	9.56	Terminal	451	451			
Glass Solar	204	0	204	2	204	3	0	0.00	Main Fan	451	451			
Glass/Door Cond	81	0	81	1	81	1	-310	3.13	Sec Fan	0	0			
Wall Cond	2,210	0	2,210	25	2,210	27	-2,722	27.51	Nom Vent	23	0			
Partition/Door	0	0	0	0	0	0	0	0.00	AHU Vent	23	0			
Floor	0	0	0	0	0	0	0	0.00	Infil	0	0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	MinStop/Rh	0	0			
Infiltration	0	0	0	0	0	0	0	0.00	Return	451	451			
Sub Total ==>	4,040	0	4,040	45	4,040	50	-3,978	40.20	Exhaust	23	0			
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	955	0	955	11	955	12	0	0.00	% OA	5.0	0.0			
People	1,315	0	1,315	15	700	9	0	0.00	cfm/ft²	2.91	2.91			
Misc	2,382	0	2,382	27	2,382	29	0	0.00	cfm/ton	604.67				
Sub Total ==>	4,652	0	4,652	52	4,037	50	0	0.00	ft²/ton	207.61				
Ceiling Load				Ceiling Load							Btu/hr-ft²			
Ventilation Load	0	0	-16	0	0	0	0	0.00	OA Preheat Diff.			57.80		
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	RA Preheat Diff.	-672	6.79			
Dehumid. Ov Sizing	0	0	0	0	0	0	-4,930	49.82	Additional Reheat	-316	3.19			
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	System Plenum Heat	0	0.00			
Exhaust Heat	0	0	0	0	0	0	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Sup. Fan Heat	0	0	267	3	0	0	0	0.00	Supply Air Leakage	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	Grand Total ==>					
Duct Heat Pkup	0	0	0	0	0	0	-8,908	-9,896	8,692		0		8,943	
Underflr Sup Ht Pkup	0	0	0	0	0	0	100.00	100.00	8,077		100.00		8,077	
Supply Air Leakage	0	0	0	0	0	0	100.00	100.00	-8,908		-9,896		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	Ent	Lvg				
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F					°F	gr/lb	ft²	(%)
Main Clg	0.8	8.9	8.7	451	75.8	59.3	67.2	54.3	51.5	66.1	Floor	155		Main Htg	0.0	451	67.6	92.1
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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	0.8	8.9									Roof	155	0	Humidif	0.0	0	0.0	0.0
											Wall	125	6	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By Trial

OFICINA 3

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21		OADB: 21				SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads								Ret/OA	75.8	70.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	Fn MtrTD	0.1	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Fn BldTD	0.2	0.0
Roof Cond	1,546	0	1,546	17	19	Roof Cond	-946	9.56	-946	-946	27.51	Fn Frict	0.5	0.0
Glass Solar	204	0	204	2	3	Glass Solar	0	0.00	0	0	0.00			
Glass/Door Cond	81	0	81	1	1	Glass/Door Cond	-310	3.13	-310	-310	3.13			
Wall Cond	2,210	0	2,210	25	27	Wall Cond	-2,722	27.51	-2,722	-2,722	27.51			
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	Floor	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	Infiltration	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	4,040	0	4,040	45	50	<i>Sub Total ==></i>	-3,978	40.20	-3,978	-3,978	40.20			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	955	0	955	11	12	Lights	0	0.00	0	0	0.00	Cooling	Heating	
People	1,315	0	1,315	15	9	People	0	0.00	0	0	0.00	Diffuser	451	451
Misc	2,382	0	2,382	27	29	Misc	0	0.00	0	0	0.00	Terminal	451	451
<i>Sub Total ==></i>	4,652	0	4,652	52	50	<i>Sub Total ==></i>	0	0.00	0	0	0.00	Main Fan	451	451
Ceiling Load				Ceiling Load								Sec Fan	0	0
Ventilation Load	0	0	-16	0	0	Ventilation Load	0	0.00	0	0	0.00	Nom Vent	23	0
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0.00	0	0	0.00	AHU Vent	23	0
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,930	49.82	-4,930	-4,930	49.82	Infil	0	0
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00	0	0	0.00	MinStop/Rh	0	0
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.79	-672	-672	6.79	Return	451	451
Sup. Fan Heat	0	267	267	3	3	RA Preheat Diff.	-316	3.19	-316	-316	3.19	Exhaust	23	0
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	0	0	0.00	Rm Exh	0	0
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00	0	0	0.00	Auxiliary	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	0	0	0.00	Leakage Ups	0	0
Grand Total ==>	8,692	0	8,943	100.00	8,077	Grand Total ==>	-8,908	100.00	-8,908	-8,996	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	ft² (%)	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.8	8.9	8.7	451	75.8	59.3	67.2	54.3	51.5	66.1	Floor	155	0.0	451	67.6	92.1			
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	Int Door	0	0.0	0	0.0	0.0			
											ExFlr	0	0.0	0	0.0	0.0			
Total	0.8	8.9									Roof	155	0	0	0.0	0.0			
											Wall	125	6	5	0.0	0.0			
											Ext Door	0	0	0	0.0	0.0			

Room Checksums

By Trial

OFICINA 4

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21		OADB: 21				SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total (%)	Space Sens	Tot Sens	Percent Of Total (%)	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.1	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.5	0.0
Roof Cond	1,546	0	1,546	17	1,546	Roof Cond	-946	9.56	Roof Cond	-946	9.56	AIRFLOWS		
Glass Solar	204	0	204	2	204	Glass Solar	0	0.00	Glass Solar	0	0.00	Diffuser	451	451
Glass/Door Cond	81	0	81	1	81	Glass/Door Cond	-310	3.13	Glass/Door Cond	-310	3.13	Terminal	451	451
Wall Cond	2,210	0	2,210	25	2,210	Wall Cond	-2,722	27.51	Wall Cond	-2,722	27.51	Main Fan	451	451
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	Partition/Door	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	Floor	0	0.00	Floor	0	0.00	Nom Vent	23	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0.00	AHU Vent	23	0
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Infiltration	0	0.00	Infil	0	0
Sub Total ==>	4,040	0	4,040	45	4,040	Sub Total ==>	-3,978	40.20	Sub Total ==>	-3,978	40.20	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	451	451
Lights	955	0	955	11	955	Lights	0	0.00	Lights	0	0.00	Exhaust	23	0
People	1,315	0	1,315	15	700	People	0	0.00	People	0	0.00	Rm Exh	0	0
Misc	2,382	0	2,382	27	2,382	Misc	0	0.00	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	4,652	0	4,652	52	4,037	Sub Total ==>	0	0.00	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	0	-16	0	0	Ventilation Load	0	0.00	Ventilation Load	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	Adj Air Trans Heat	0	0	% OA	5.0	0.0
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-4,930	49.82	Ov/Undr Sizing	-4,930	49.82	cfm/ft²	2.91	2.91
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00	Exhaust Heat	0	0.00	cfm/ton	604.67	
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.79	OA Preheat Diff.	-672	6.79	ft²/ton	207.61	
Sup. Fan Heat	0	267	3	0	0	RA Preheat Diff.	-316	3.19	RA Preheat Diff.	-316	3.19	Btu/hr-ft²	57.80	0.00
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0.00	No. People	3.0	19.4/1000 ft²
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00	System Plenum Heat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
Grand Total ==>	8,692	0	8,943	100.00	8,077	Grand Total ==>	-8,908	-9,896	Grand Total ==>	-8,908	-9,896			

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	0.8	8.9	8.7	451	75.8	59.3	67.2	54.3	51.5	66.1	Floor	155		0.0	451	67.6	92.1		
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	Int Door	0		0.0	0	0.0	0.0		
											ExFlr	0		0.0	0	0.0	0.0		
Total	0.8	8.9									Roof	155	0	0.0	0	0.0	0.0		
											Wall	125	6	5	0.0	0	0.0		
											Ext Door	0	0	0	0.0	0	0.0		
														0.0					

Room Checksums

By Trial

OFICINA 5

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	1,546	0	1,546	17	1,546	19	-946	9.56						
Glass Solar	204	0	204	2	204	3	0	0.00						
Glass/Door Cond	81	0	81	1	81	1	-310	3.13						
Wall Cond	2,210	0	2,210	25	2,210	27	-2,722	27.51						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	4,040	0	4,040	45	4,040	50	-3,978	40.20						
Internal Loads				Internal Loads										
Lights	955	0	955	11	955	12	0	0.00						
People	1,315	0	1,315	15	700	9	0	0.00						
Misc	2,382	0	2,382	27	2,382	29	0	0.00						
Sub Total ==>	4,652	0	4,652	52	4,037	50	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	-16	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	0	-4,930	49.82						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-672	6.79						
Sup. Fan Heat	0	0	267	3	0	0	-316	3.19						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	8,692	0	8,943	100.00	8,077	100.00	-8,908	-9,896	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	451	451
Terminal	451	451
Main Fan	451	451
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	451	451
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.0	0.0
cfm/ft²	2.91	2.91
cfm/ton	604.67	
ft²/ton	207.61	
Btu/hr-ft²	57.80	0.00
No. People	3.0	19.4/1000 ft²

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	0.8	8.9	8.7	451	75.8	59.3	67.2	54.3	51.5	66.1
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	8.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	155		
Part	0		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	451	67.6	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 6

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 91		OADB: 21		OADB: 21		SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.1	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0	0	0	0.00	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0	0	0.00	Fn Frict	0.5	0.0
Roof Cond	1,526	0	1,526	15	1,526	17	Roof Cond	-946	-946	8.67				
Glass Solar	199	0	199	2	199	2	Glass Solar	0	0	0.00				
Glass/Door Cond	80	0	80	1	80	1	Glass/Door Cond	-310	-310	2.84				
Wall Cond	2,207	0	2,207	22	2,207	25	Wall Cond	-2,722	-2,722	24.96				
Partition/Door	984	0	984	10	984	11	Partition/Door	-3,428	-3,428	31.43				
Floor	0	0	0	0	0	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				
<i>Sub Total ==></i>	4,995	0	4,995	51	4,995	56	<i>Sub Total ==></i>	-7,406	-7,406	67.91				
Internal Loads				Internal Loads				Internal Loads						
Lights	937	0	937	9	937	10	Lights	0	0	0.00				
People	1,309	0	1,309	13	694	8	People	0	0	0.00				
Misc	2,365	0	2,365	24	2,365	26	Misc	0	0	0.00				
<i>Sub Total ==></i>	4,611	0	4,611	47	3,996	44	<i>Sub Total ==></i>	0	0	0.00				
Ceiling Load	0	0	0	0	0	0	Ceiling Load	0	0	0.00				
Ventilation Load	0	0	-16	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	-2,511	-2,511	23.03				
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.	-672	-672	6.17				
Sup. Fan Heat	0	0	297	3	0	0	RA Preheat Diff.	-316	-316	2.90				
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	0	0	0.00				
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 ==>	9,607	0	9,888	100.00	8,992	100.00	Grand Total ==>	-9,917	-10,905	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	502	502
Terminal	502	502
Main Fan	502	502
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	502	502
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	4.5	0.0
cfm/ft²	3.24	3.24
cfm/ton	608.82	
ft²/ton	187.77	
Btu/hr-ft²	63.91	0.00
No. People	3.0	19.4/1000 ft²

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	0.8	9.9	9.6	502	75.7	59.3	67.3	54.3	51.6	66.3
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	0.8	9.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	155		
Part	180		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	502	67.8	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 7

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Cooling	Heating	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 91		OADB: 21		OADB: 21		SADB	55.0	92.1
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.0	70.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.0	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.1	0.0
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Fn BldTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Skylite Cond	0	0.00	Fn Frict	0.5	0.0
Roof Cond	1,526	0	1,526	15	1,526	Roof Cond	-946	8.67	Roof Cond	-946	8.67	AIRFLOWS		
Glass Solar	199	0	199	2	199	Glass Solar	0	0.00	Glass Solar	0	0.00	Diffuser	502	502
Glass/Door Cond	80	0	80	1	80	Glass/Door Cond	-310	2.84	Glass/Door Cond	-310	2.84	Terminal	502	502
Wall Cond	2,207	0	2,207	22	2,207	Wall Cond	-2,722	24.96	Wall Cond	-2,722	24.96	Main Fan	502	502
Partition/Door	984	0	984	10	984	Partition/Door	-3,428	31.43	Partition/Door	-3,428	31.43	Sec Fan	0	0
Floor	0	0	0	0	0	Floor	0	0.00	Floor	0	0.00	Nom Vent	23	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0.00	AHU Vent	23	0
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Infiltration	0	0.00	Infil	0	0
Sub Total ==>	4,995	0	4,995	51	4,995	Sub Total ==>	-7,406	67.91	Sub Total ==>	-7,406	67.91	MinStop/Rh	0	0
Internal Loads				Internal Loads				Internal Loads				Return	502	502
Lights	937	0	937	9	937	Lights	0	0.00	Lights	0	0.00	Exhaust	23	0
People	1,309	0	1,309	13	694	People	0	0.00	People	0	0.00	Rm Exh	0	0
Misc	2,365	0	2,365	24	2,365	Misc	0	0.00	Misc	0	0.00	Auxiliary	0	0
Sub Total ==>	4,611	0	4,611	47	3,996	Sub Total ==>	0	0.00	Sub Total ==>	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	0	-16	0	0	Ventilation Load	0	0.00	Ventilation Load	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	Adj Air Trans Heat	0	0	% OA	4.5	0.0
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-2,511	23.03	Ov/Undr Sizing	-2,511	23.03	cfm/ft²	3.24	3.24
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00	Exhaust Heat	0	0.00	cfm/ton	608.82	
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.17	OA Preheat Diff.	-672	6.17	ft²/ton	187.77	
Sup. Fan Heat	0	297	3	0	0	RA Preheat Diff.	-316	2.90	RA Preheat Diff.	-316	2.90	Btu/hr-ft²	63.91	0.00
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0.00	No. People	3.0	19.4/1000 ft²
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00	System Plenum Heat	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
Grand Total ==>	9,607	0	9,888	100.00	8,992	Grand Total ==>	-9,917	100.00	Grand Total ==>	-10,905	100.00			

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	0.8	9.9	9.6	502	75.7	59.3	67.3	54.3	51.6	66.3	Floor	155	Main Htg	0.0	502	67.8	92.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	180	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	Int Door	0	Preheat	0.0	0	0.0	0.0
											ExFlr	0	Humidif	0.0	0	0.0	0.0
Total	0.8	9.9									Roof	155	0	0	0.0	0.0	0.0
											Wall	125	6	5	0.0	0.0	0.0
											Ext Door	0	0	0	0.0	0.0	0.0
													Total	0.0			

Room Checksums

By Trial

OFICINA 8

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	3,861	0	3,861	29	3,861	31	-2,168	14.70						
Glass Solar	363	0	363	3	363	3	0	0.00						
Glass/Door Cond	88	0	88	1	88	1	-310	2.10						
Wall Cond	1,455	0	1,455	11	1,455	12	-2,722	18.45						
Partition/Door	1,159	0	1,159	9	1,159	9	-4,157	28.19						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	6,926	0	6,926	51	6,926	56	-9,357	63.44						
Internal Loads				Internal Loads										
Lights	2,161	0	2,161	16	2,161	17	0	0.00						
People	1,311	0	1,311	10	696	6	0	0.00						
Misc	2,695	0	2,695	20	2,695	22	0	0.00						
Sub Total ==>	6,166	0	6,166	46	5,551	44	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	30	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	0	-4,404	29.86						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-672	4.56						
Sup. Fan Heat	0	0	413	3	0	0	-316	2.14						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	13,093	0	13,536	100.00	12,478	100.00	-13,761	-14,749	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	696	696
Terminal	696	696
Main Fan	696	696
Sec Fan	0	0
Nom Vent	23	0
AHU Vent	23	0
Infil	0	0
MinStop/Rh	0	0
Return	696	696
Exhaust	23	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.2	0.0
cfm/ft²	1.96	1.96
cfm/ton	617.19	
ft²/ton	314.40	
Btu/hr-ft²	38.17	0.00
No. People	3.0	8.5/1000 ft²

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	1.1	13.5	13.3	696	75.6	59.3	67.7	54.3	51.7	66.9
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	1.1	13.5								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	355		
Part	219		
Int Door	0		
ExFlr	0		
Roof	355	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	696	68.4	92.1
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	0.0			

Room Checksums

By Trial

OFICINA 9

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 10 / 16		Mo/Hr: 10 / 16		Mo/Hr: Heating Design			Cooling		Heating			
Outside Air:		OADB/WB/HR: 84 / 57 / 44		OADB: 84		OADB: 21			SADB	55.0	92.1			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return					
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD					
						Btu/h	Btu/h		Fn BldTD					
									Fn Frict					
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser	499	499			
Roof Cond	1,655	0	1,655	17	1,655	Roof Cond	-1,227	11.31	Terminal	499	499			
Glass Solar	310	0	310	3	310	Glass Solar	0	0.00	Main Fan	499	499			
Glass/Door Cond	35	0	35	0	35	Glass/Door Cond	-310	2.86	Sec Fan	0	0			
Wall Cond	2,580	0	2,580	27	2,580	Wall Cond	-2,722	25.08	Nom Vent	23	0			
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	AHU Vent	23	0			
Floor	0	0	0	0	0	Floor	0	0.00	Infil	0	0			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	MinStop/Rh	0	0			
Infiltration	0	0	0	0	0	Infiltration	0	0.00	Return	499	499			
Sub Total ==>	4,580	0	4,580	47	4,580	Sub Total ==>	-4,259	39.25	Exhaust	23	0			
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	1,223	0	1,223	13	1,223	Lights	0	0.00	% OA	4.5	0.0			
People	1,311	0	1,311	13	696	People	0	0.00	cfm/ft²	2.49	2.49			
Misc	2,444	0	2,444	25	2,444	Misc	0	0.00	cfm/ton	616.14				
Sub Total ==>	4,978	0	4,978	51	4,363	Sub Total ==>	0	0.00	ft²/ton	247.86				
Ceiling Load				Ceiling Load							Btu/hr-ft²			
Ventilation Load	0	0	-136	-1	0	Ventilation Load	0	0.00		48.41	0.00			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	No. People		3.0	14.9/1000 ft²		
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-5,604	51.65						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-672	6.20						
Sup. Fan Heat	0	296	296	3	0	RA Preheat Diff.	-316	2.91						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	9,558	0	9,718	100.00	8,943	Grand Total ==>	-9,863	-10,851	100.00					

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	0.8	9.7	9.4	499	75.4	59.2	67.4	54.3	51.6	66.3	Floor	201	0.0	499	67.8	92.1
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	Int Door	0	0.0	0	0.0	0.0
											ExFlr	0	0.0	0	0.0	0.0
Total	0.8	9.7									Roof	201	0.0	0	0.0	0.0
											Wall	125	6	5	0.0	0.0
											Ext Door	0	0	0	0.0	0.0
											Total	0.0				

Room Checksums

By Trial

SALA DE JUNTAS 1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 5 / 17		Mo/Hr: 5 / 17		Mo/Hr: Heating Design			Cooling		Heating	SADB	55.0	92.1	
Outside Air:		OADB/WB/HR: 91 / 59 / 42		OADB: 91		OADB: 21			Ra Plenum		75.0	70.0	Return	75.0	70.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="3"></td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="3"></td> </th>	Fn Frict <td colspan="3"></td>			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		76.6	0.1	0.0	0.0			
Envelope Loads				Envelope Loads							AIRFLOWS				
Skylite Solar	0	0	0	0	0	0	0	0.00	Diffuser		866	866			
Skylite Cond	0	0	0	0	0	0	0	0.00	Terminal		866	866			
Roof Cond	3,146	0	3,146	17	20	-1,923	-1,923	9.12	Main Fan		866	866			
Glass Solar	409	0	409	2	3	0	0	0.00	Sec Fan		0	0			
Glass/Door Cond	162	0	162	1	1	-620	-620	2.94	Nom Vent		90	0			
Wall Cond	4,420	0	4,420	24	28	-5,444	-5,444	25.83	AHU Vent		90	0			
Partition/Door	0	0	0	0	0	0	0	0.00	Infil		0	0			
Floor	0	0	0	0	0	0	0	0.00	MinStop/Rh		0	0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	Return		866	866			
Infiltration	0	0	0	0	0	0	0	0.00	Exhaust		90	0			
<i>Sub Total ==></i>	8,137	0	8,137	44	52	-7,987	-7,987	37.89	Rm Exh		0	0			
Internal Loads				Internal Loads							ENGINEERING CKS				
Lights	1,945	0	1,945	11	13	0	0	0.00	% OA		10.4	0.0			
People	5,262	0	5,262	29	18	0	0	0.00	cfm/ft²		2.75	2.75			
Misc	2,645	0	2,645	14	17	0	0	0.00	cfm/ton		563.84				
<i>Sub Total ==></i>	9,852	0	9,852	53	48	0	0	0.00	ft²/ton		204.77				
Ceiling Load	0	0	0	0	0	0	0	0.00	Btu/hr-ft²		58.60	0.00			
Ventilation Load	0	0	-63	0	0	0	0	0.00	No. People		12.0	38.1/1000 ft²			
Adj Air Trans Heat	0	0	0	0	0	0	0	0							
Dehumid. Ov Sizing	0	0	0	0	0	-9,139	-9,139	43.36							
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00							
Exhaust Heat	0	0	0	0	0	0	0	0.00							
Sup. Fan Heat	0	0	513	3	3	-2,689	-2,689	12.76							
Ret. Fan Heat	0	0	0	0	0	-1,263	-1,263	5.99							
Duct Heat Pkup	0	0	0	0	0	0	0	0.00							
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00							
Supply Air Leakage	0	0	0	0	0	0	0	0.00							
Grand Total ==>	17,989	0	18,439	100.00	15,529	-17,126	-21,078	100.00							

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	1.5	18.4	17.3	866	76.6	59.2	65.8	54.3	50.9	63.4	Floor	315		Main Htg	0.0	866	64.9	92.1
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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	1.5	18.4									Roof	315	0	Humidif	0.0	0	0.0	0.0
											Wall	251	12	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Room Checksums

By Trial

SALA DE JUNTAS 2

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 10 / 16		Mo/Hr: 10 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 84 / 57 / 44		OADB: 82		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
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	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	2,918	0	2,918	15	2,517	14	-2,168	9.30						
Glass Solar	620	0	620	3	536	3	0	0.00						
Glass/Door Cond	71	0	71	0	61	0	-620	2.66						
Wall Cond	5,156	0	5,156	26	5,565	32	-5,444	23.36						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	8,765	0	8,765	44	8,679	49	-8,232	35.33						
Internal Loads				Internal Loads										
Lights	2,154	0	2,154	11	2,198	13	0	0.00						
People	5,240	0	5,240	26	2,806	16	0	0.00						
Misc	3,831	0	3,831	19	3,861	22	0	0.00						
Sub Total ==>	11,224	0	11,224	56	8,865	51	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	-543	-3	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	0	-11,117	47.71						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-2,689	11.54						
Sup. Fan Heat	0	0	580	3	0	0	-1,263	5.42						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	19,989	0	20,026	100.00	17,545	100.00	-19,349	-23,301	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	979	979
Terminal	979	979
Main Fan	979	979
Sec Fan	0	0
Nom Vent	90	0
AHU Vent	90	0
Infil	0	0
MinStop/Rh	0	0
Return	979	979
Exhaust	90	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.2	0.0
cfm/ft²	2.76	2.76
cfm/ton	586.57	
ft²/ton	212.50	
Btu/hr-ft²	56.47	0.00
No. People	12.0	33.8/1000 ft²

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	1.7	20.0	18.8	979	75.8	59.1	66.3	54.3	51.1	64.1
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	20.0								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	355		
Part	0		
Int Door	0		
ExFlr	0		
Roof	355	0	0
Wall	251	12	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	0.0	979	65.5	92.1
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	0.0			

Room Checksums

By Trial

SALA DE JUNTAS 3

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		75.0	76.0	0.1	0.2	0.5	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	1,695	0	1,695	14	1,695	Roof Cond	-946	7.24						
Glass Solar	194	0	194	2	194	Glass Solar	0	0.00						
Glass/Door Cond	87	0	87	1	87	Glass/Door Cond	-310	2.37						
Wall Cond	2,095	0	2,095	18	2,095	Wall Cond	-2,722	20.84						
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
<i>Sub Total ==></i>	4,071	0	4,071	34	4,071	<i>Sub Total ==></i>	-3,978	30.45						
Internal Loads				Internal Loads										
Lights	913	0	913	8	913	Lights	0	0.00						
People	1,734	0	1,734	15	914	People	0	0.00						
Misc	4,752	0	4,752	40	4,752	Misc	0	0.00						
<i>Sub Total ==></i>	7,399	0	7,399	62	6,579	<i>Sub Total ==></i>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	64	1	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	-7,768	59.46						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat		0	0	0		OA Preheat Diff.	-896	6.86						
Sup. Fan Heat			352	3		RA Preheat Diff.	-421	3.22						
Ret. Fan Heat		0	0	0		Additional Reheat	0	0.00						
Duct Heat Pkup		0	0	0		System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage		0	0	0		Supply Air Leakage	0	0.00						
Grand Total ==>	11,470	0	11,887	100.00	10,650	Grand Total ==>	-11,745	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	594	594
Terminal	594	594
Main Fan	594	594
Sec Fan	0	0
Nom Vent	30	0
AHU Vent	30	0
Infil	0	0
MinStop/Rh	0	0
Return	594	594
Exhaust	30	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.0	0.0
cfm/ft²	3.84	3.84
cfm/ton	599.88	
ft²/ton	156.21	
Btu/hr-ft²	76.82	0.00
No. People	4.0	25.9/1000 ft²

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	1.0	11.9	11.5	594	76.0	59.3	67.2	54.3	51.5	66.0
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	1.0	11.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	155		
Part	0		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	594	67.5	92.1
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	0.0			

Room Checksums

By Trial

SALA DE JUNTAS 4

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00						
Roof Cond	1,695	0	1,695	14	1,695	Roof Cond	-946	7.24						
Glass Solar	194	0	194	2	194	Glass Solar	0	0.00						
Glass/Door Cond	87	0	87	1	87	Glass/Door Cond	-310	2.37						
Wall Cond	2,095	0	2,095	18	2,095	Wall Cond	-2,722	20.84						
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00						
Floor	0	0	0	0	0	Floor	0	0.00						
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00						
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	4,071	0	4,071	34	4,071	Sub Total ==>	-3,978	30.45						
Internal Loads				Internal Loads										
Lights	913	0	913	8	913	Lights	0	0.00						
People	1,734	0	1,734	15	914	People	0	0.00						
Misc	4,752	0	4,752	40	4,752	Misc	0	0.00						
Sub Total ==>	7,399	0	7,399	62	6,579	Sub Total ==>	0	0.00						
Ceiling Load	0	0	0	0	0	Ceiling Load	0	0.00						
Ventilation Load	0	0	64	1	0	Ventilation Load	0	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-7,768	59.46						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	-896	6.86						
Sup. Fan Heat	0	0	352	3	0	RA Preheat Diff.	-421	3.22						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	11,470	0	11,887	100.00	10,650	Grand Total ==>	-11,745	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	594	594
Terminal	594	594
Main Fan	594	594
Sec Fan	0	0
Nom Vent	30	0
AHU Vent	30	0
Infil	0	0
MinStop/Rh	0	0
Return	594	594
Exhaust	30	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	5.0	0.0
cfm/ft²	3.84	3.84
cfm/ton	599.88	
ft²/ton	156.21	
Btu/hr-ft²	76.82	0.00
No. People	4.0	25.9/1000 ft²

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	1.0	11.9	11.5	594	76.0	59.3	67.2	54.3	51.5	66.0
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	1.0	11.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	155		
Part	0		
Int Door	0		
ExFlr	0		
Roof	155	0	0
Wall	125	6	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	594	67.5	92.1
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	0.0			

Room Checksums

By Trial

SALA DE JUNTAS 5

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 15		Mo/Hr: 5 / 15		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 60 / 42		OADB: 94		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	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	0.00	0	0	0	0	0	
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0	0	0	
Roof Cond	3,449	0	3,449	19	3,449	22	-1,923	9.18	-1,923	-1,923	0.1	0.0	0.0	
Glass Solar	389	0	389	2	389	3	0	0.00	0	0	0.2	0.0	0.0	
Glass/Door Cond	174	0	174	1	174	1	-620	2.96	-620	-620	0.5	0.0	0.0	
Wall Cond	4,193	0	4,193	23	4,193	27	-5,444	25.99	-5,444	-5,444				
Partition/Door	0	0	0	0	0	0	0	0.00	0	0				
Floor	0	0	0	0	0	0	0	0.00	0	0				
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0				
Infiltration	0	0	0	0	0	0	0	0.00	0	0				
<i>Sub Total ==></i>	8,205	0	8,205	44	8,205	53	-7,987	38.14	-7,987	-7,987				
Internal Loads				Internal Loads										
Lights	1,859	0	1,859	10	1,859	12	0	0.00	0	0				
People	5,204	0	5,204	28	2,744	18	0	0.00	0	0				
Misc	2,598	0	2,598	14	2,598	17	0	0.00	0	0				
<i>Sub Total ==></i>	9,662	0	9,662	52	7,202	47	0	0.00	0	0				
Ceiling Load	0	0	0	0	0	0	0	0.00	0	0				
Ventilation Load	0	0	193	1	0	0	0	0.00	0	0				
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	-9,004	42.99	-9,004	-9,004				
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0				
Exhaust Heat	0	0	0	0	0	0	0	0.00	0	0				
Sup. Fan Heat	0	0	509	3	0	0	-2,689	12.84	-2,689	-2,689				
Ret. Fan Heat	0	0	0	0	0	0	-1,263	6.03	-1,263	-1,263				
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0				
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0				
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0				
Grand Total ==>	17,867	0	18,569	100.00	15,407	100.00	-16,991	100.00	-20,944	-20,944				

AIRFLOWS		
	Cooling	Heating
Diffuser	860	860
Terminal	860	860
Main Fan	860	860
Sec Fan	0	0
Nom Vent	90	0
AHU Vent	90	0
Infil	0	0
MinStop/Rh	0	0
Return	860	860
Exhaust	90	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.5	0.0
cfm/ft²	2.73	2.73
cfm/ton	555.50	
ft²/ton	203.34	
Btu/hr-ft²	59.01	0.00
No. People	12.0	38.1/1000 ft²

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	1.6	18.6	17.4	860	77.0	59.4	65.7	54.3	50.9	63.4
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	1.6	18.6								

AREAS			
	Gross Total	Glass	(%)
		ft²	
Floor	315		
Part	0		
Int Door	0		
ExFlr	0		
Roof	315	0	0
Wall	251	12	5
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	860	64.9	92.1
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	0.0			

Room Checksums

By Trial

SALA DE JUNTAS 6

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 6 / 17		Mo/Hr: 6 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 88 / 60 / 50		OADB: 88		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	4,453	0	4,453	15	4,453	18	-2,781	9.72						
Glass Solar	5,700	0	5,700	19	5,700	22	0	0.00						
Glass/Door Cond	1,606	0	1,606	5	1,606	6	-7,220	25.23						
Wall Cond	2,840	0	2,840	9	2,840	11	-4,892	17.10						
Partition/Door	901	0	901	3	901	4	-3,659	12.79						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	15,499	0	15,499	51	15,499	61	-18,552	64.84						
Internal Loads				Internal Loads										
Lights	2,824	0	2,824	9	2,824	11	0	0.00						
People	7,902	0	7,902	26	4,212	17	0	0.00						
Misc	2,880	0	2,880	10	2,880	11	0	0.00						
Sub Total ==>	13,605	0	13,605	45	9,915	39	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	300	1	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	0	-4,131	14.44						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-4,034	14.10						
Sup. Fan Heat	0	0	840	3	0	0	-1,895	6.62						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	29,104	0	30,245	100.00	25,414	100.00	-22,684	-28,612	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	1,418	1,418
Terminal	1,418	1,418
Main Fan	1,418	1,418
Sec Fan	0	0
Nom Vent	135	0
AHU Vent	135	0
Infil	0	0
MinStop/Rh	0	0
Return	1,418	1,418
Exhaust	135	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.5	0.0
cfm/ft²	3.12	3.12
cfm/ton	562.59	
ft²/ton	180.53	
Btu/hr-ft²	66.47	0.00
No. People	18.0	39.6/1000 ft²

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	30.3	27.9	1,418	76.3	59.0	65.2	54.3	50.6	62.2
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	2.5	30.3								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	455		
Part	192		
Int Door	0		
ExFlr	0		
Roof	455	0	0
Wall	357	143	40
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	1,418	65.3	87.9
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	0.0			

Room Checksums

By Trial

VESTIBULO 2

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens Btu/h	(%)	75.0	76.6	0.1	0.2	0.5	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	35,537	0	35,537	33	35,537	39	-19,788	19.70						
Glass Solar	0	0	0	0	0	0	0	0.00						
Glass/Door Cond	0	0	0	0	0	0	0	0.00						
Wall Cond	0	0	0	0	0	0	0	0.00						
Partition/Door	7,451	0	7,451	7	7,451	8	-26,506	26.39						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	42,988	0	42,988	40	42,988	48	-46,294	46.09						
Internal Loads				Internal Loads										
Lights	0	0	0	0	0	0	0	0.00						
People	26,437	0	26,437	25	14,137	16	0	0.00						
Misc	33,277	0	33,277	31	33,277	37	0	0.00						
Sub Total ==>	59,714	0	59,714	56	47,414	52	0	0.00						
Ceiling Load	0	0	0	0	0	0	0	0.00						
Ventilation Load	0	0	1,038	1	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	0	-34,394	34.24						
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00						
Exhaust Heat	0	0	0	0	0	0	-13,446	13.39						
Sup. Fan Heat	0	0	2,989	3	0	0	-6,316	6.29						
Ret. Fan Heat	0	0	0	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	102,702	0	106,729	100.00	90,402	100.00	-80,688	-100,449	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	5,044	5,044
Terminal	5,044	5,044
Main Fan	5,044	5,044
Sec Fan	0	0
Nom Vent	450	0
AHU Vent	450	0
Infil	0	0
MinStop/Rh	0	0
Return	5,044	5,044
Exhaust	450	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	8.9	0.0
cfm/ft²	1.56	1.56
cfm/ton	567.10	
ft²/ton	364.00	
Btu/hr-ft²	32.97	0.00
No. People	60.0	18.5/1000 ft²

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	8.9	106.7	100.7	5,044	76.6	59.0	64.6	54.3	50.7	62.4
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	8.9	106.7								

AREAS			
	Gross Total	Glass	(%)
		ft²	
Floor	3,237		
Part	1,394		
Int Door	0		
ExFlr	0		
Roof	3,237	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	0.0	5,044	65.6	87.9
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	0.0			

Room Checksums

By Trial

VESTIBULO1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 5 / 16		Mo/Hr: 5 / 16		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 93 / 60 / 42		OADB: 93		OADB: 21			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads							AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	0	0	0.00	Diffuser			7,327			
Skylite Cond	0	0	0	0	0	0	0	0	0.00	Terminal			7,327			
Roof Cond	90,506	0	90,506	55	90,506	69	-50,301	-50,301	26.81	Main Fan			7,327			
Glass Solar	0	0	0	0	0	0	0	0	0.00	Sec Fan			0			
Glass/Door Cond	0	0	0	0	0	0	0	0	0.00	Nom Vent			975			
Wall Cond	0	0	0	0	0	0	0	0	0.00	AHU Vent			975			
Partition/Door	9,947	0	9,947	6	9,947	8	-35,307	-35,307	18.82	Infil			0			
Floor	0	0	0	0	0	0	0	0	0.00	MinStop/Rh			0			
Adjacent Floor	0	0	0	0	0	0	0	0	0.00	Return			7,327			
Infiltration	0	0	0	0	0	0	0	0	0.00	Exhaust			975			
<i>Sub Total ==></i>	100,453	0	100,453	61	100,453	76	-85,608	-85,608	45.62	Rm Exh			0			
Internal Loads				Internal Loads							ENGINEERING CKS					
Lights	0	0	0	0	0	0	0	0	0.00	% OA			13.3			
People	57,520	0	57,520	35	30,870	24	0	0	0.00	cfm/ft²			0.89			
Misc	0	0	0	0	0	0	0	0	0.00	cfm/ton			537.32			
<i>Sub Total ==></i>	57,520	0	57,520	35	30,870	24	0	0	0.00	ft²/ton			603.50			
Ceiling Load	0	0	0	0	0	0	0	0	0.00	Btu/hr-ft²			19.88			
Ventilation Load	0	0	1,319	1	0	0	0	0	0.00	No. People			130.0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0							
Dehumid. Ov Sizing	0	0	0	0	0	0	-59,222	-59,222	31.56							
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0.00							
Exhaust Heat	0	0	0	0	0	0	-29,132	-29,132	15.53							
Sup. Fan Heat	0	0	4,342	3	0	0	-13,684	-13,684	7.29							
Ret. Fan Heat	0	0	0	0	0	0	0	0	0.00							
Duct Heat Pkup	0	0	0	0	0	0	0	0	0.00							
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00							
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00							
Grand Total ==>	157,974	0	163,635	100.00	131,324	100.00	-144,830	-187,646	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	Ent	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								
Main Clg	13.6	163.6	151.4	7,327	77.4	59.3	65.0	54.3	50.6	62.0	Floor	8,229		Main Htg	0.0	7,327	63.5	92.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	1,857		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	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	13.6	163.6									Roof	8,229	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	0.0			

Design Cooling Load Summary

By Trial
 CECIS AGUASCALIENTES
 AGUASCALIENTES

System - UGAR CECIS

Zone - ADMINISTRATIVO

Coil Location - Zone

Coil Peak Calculation Time: May, hour 16

Ambient DB/WB/HR: 93 / 60 / 42

COOLING COIL LOAD INFORMATION

COOLING COIL SELECTION

Load Component	Sensible Btu/h	Latent Btu/h	Total Btu/h	Percent of Total
Solar Gain	5,941		5,941	1.3%
Glass Transmission	1,855		1,855	0.4%
Wall Transmission	61,523		61,523	13.9%
Roof Transmission	140,164		140,164	31.6%
Floor Transmission	0		0	0.0%
Adj Floor Transmission	0		0.00	0.0%
Partition Transmission	19,047		19,047	4.3%
Net Ceiling Load	0		0	0.0%
Lighting	29,996		29,996	6.8%
People	62,266	54,530	116,796	26.4%
Misc. Equipment Loads	54,093	0	54,093	12.2%
Cooling Infiltration	0	0	0	0.0%
Sub-Total ==>	374,884	54,530	429,414	96.9%
Ventilation Load	30,040	-28,705	1,335	0.3%
Exhaust Heat	0	0	0	0.0%
Supply Fan Load	12,403		12,403	2.8%
Return Fan Load	0		0	0.0%
Net Duct Heat Pickup	0		0	0.0%
Wall Load to Plenum	0		0	0.0%
Roof Load to Plenum	0		0	0.0%
Adj Floor to Plenum	0		0	0.0%
Lighting Load to Plenum	0		0	0.0%
Misc. Equip. Load to Plenum	0	0	0	0.0%
Glass Transmission to Plenum	0		0	0.0%
Glass Solar to Plenum	0		0	0.0%
Over/Under Sizing	0		0	0.0%
Reheat at Design	0	0	0	0.0%
Underfloor Sup Heat Pickup	0		0	0.0%
Supply Air Leakage	0	0	0	0.0%
Total Cooling Loads	417,327	25,825	443,152	100.0 %

Coil Selection Parameters	
Coil Entering Air (DB / WB)	76.6 / 59.3 °F
Coil Entering Humidity Ratio	66.06 gr/lb
Coil Leaving Air (DB / WB)	54.3 / 51.0 °F
Coil Leaving Humidity Ratio	63.88 gr/lb
Coil Sensible Load	417.33 MBh
Coil Total Load	443.15 MBh
Cooling Supply Air Temperature	55.00 °F
Total Cooling Airflow	20,930.58 cfm
Resulting Room Relative Humidity	42.55 %

General Engineering Checks

Total Cooling Load	36.9 ton
Area / Load	357.01 ft²/ton
Total Floor Area	13,184 ft²
Cooling Airflow	1.59 cfm/ft²
Airflow / Load	566.77 cfm/ton
Percent Outdoor Air	9.5 %
Cooling Load Methodology	CLTD-CLF (ASHRAE TFM)

Design Cooling Load Summary

By Trial
CECIS AGUASCALIENTES
AGUASCALIENTES

System - UGAR CECIS

Zone - CECIS

Coil Location - Zone

Coil Peak Calculation Time: May, hour 16
Ambient DB/WB/HR: 93 / 60 / 42

COOLING COIL LOAD INFORMATION

COOLING COIL SELECTION

Load Component	Sensible Btu/h	Latent Btu/h	Total Btu/h	Percent of Total
Solar Gain	13,994		13,994	7.6%
Glass Transmission	3,632		3,632	2.0%
Wall Transmission	6,717		6,717	3.7%
Roof Transmission	46,660		46,660	25.4%
Floor Transmission	0		0	0.0%
Adj Floor Transmission	0		0.00	0.0%
Partition Transmission	12,359		12,359	6.7%
Net Ceiling Load	0		0	0.0%
Lighting	6,667		6,667	3.6%
People	20,882	18,245	39,127	21.3%
Misc. Equipment Loads	48,014	0	48,014	26.1%
Cooling Infiltration	0	0	0	0.0%
Sub-Total ==>	158,927	18,245	177,172	96.3%
Ventilation Load	10,037	-8,482	1,555	0.8%
Exhaust Heat	0	0	0	0.0%
Supply Fan Load	5,255		5,255	2.9%
Return Fan Load	0		0	0.0%
Net Duct Heat Pickup	0		0	0.0%
Wall Load to Plenum	0		0	0.0%
Roof Load to Plenum	0		0	0.0%
Adj Floor to Plenum	0		0	0.0%
Lighting Load to Plenum	0		0	0.0%
Misc. Equip. Load to Plenum	0	0	0	0.0%
Glass Transmission to Plenum	0		0	0.0%
Glass Solar to Plenum	0		0	0.0%
Over/Under Sizing	0		0	0.0%
Reheat at Design	0	0	0	0.0%
Underfloor Sup Heat Pickup	0		0	0.0%
Supply Air Leakage	0	0	0	0.0%
Total Cooling Loads	174,218	9,763	183,981	100.0 %

Coil Selection Parameters	
Coil Entering Air (DB / WB)	76.3 / 59.0 °F
Coil Entering Humidity Ratio	65.10 gr/lb
Coil Leaving Air (DB / WB)	54.3 / 50.8 °F
Coil Leaving Humidity Ratio	63.12 gr/lb
Coil Sensible Load	174.22 MBh
Coil Total Load	183.98 MBh
Cooling Supply Air Temperature	55.00 °F
Total Cooling Airflow	8,867.03 cfm
Resulting Room Relative Humidity	41.51 %

General Engineering Checks

Total Cooling Load	15.3 ton
Area / Load	282.81 ft ² /ton
Total Floor Area	4,336 ft ²
Cooling Airflow	2.05 cfm/ft ²
Airflow / Load	578.34 cfm/ton
Percent Outdoor Air	7.5 %
Cooling Load Methodology	CLTD-CLF (ASHRAE TFM)

System Component Selection Summary

By Trial

Alternative 1

System Description: UGAR CECIS

System Type: Variable Temperature Constant Volume

Number of Zones: 2

Number of Rooms: 27

Component	Sizing Method	Location	Quantity
Cooling			
Main Clg Coil	Peak	Zone	2
Primary Clg Fan	Peak	Zone	2
Heating			
Main Htg Coil	Peak	Zone	2
Miscellaneous			
System Exhaust Fan	Vent+Inf-RmExh	System	1
Return Fan	Return Airflow	System	1

Coil Location			Cooling Coil Selection											
System	Zone	Room	Component	Time Of Peak Mo/Hr	Total Capacity ton	MBh	Sensible Capacity MBh	Airflow At Coil Peak cfm	Enter DB/ °F	WB/ °F	HR gr/lb	Leave DB/ °F	WB/ °F	HR gr/lb
		ADMINISTRATIVO	Main Clg Coil	5/16	36.9	443.2	417.3	20,931	76.6	59.3	66.1	54.3	51.0	63.9
		CECIS	Main Clg Coil	5/16	15.3	184.0	174.2	8,867	76.3	59.0	65.1	54.3	50.8	63.1

Coil Location			Heating Coil Selection				
System	Zone	Room	Component	Total Capacity MBh	Airflow cfm	Entering Dry Bulb °F	Leaving Dry Bulb °F
		ADMINISTRATIVO	Main Htg Coil	0.0	20,931	65.3	92.1
		CECIS	Main Htg Coil	0.0	8,867	66.3	87.9

Component Location			Miscellaneous Component Selection							
System	Zone	Room	Component	Design Airflow cfm	Ach/hr	Outside Air %	SADB Clg °F	Htg °F	Clg VAV Minimum cfm	Htg VAV Maximum cfm
UGAR	CECIS		Optional Vent Fan	2,663		100				
UGAR	CECIS		System Exhaust Fan	2,663						
UGAR	CECIS		Return Fan	29,798						
		ADMINISTRATIVO	Primary Fan	20,931		9.5	55.0			
		AUDITORIO	Diffuser	1,235	15.3	18.2	55.0	92.0		
		CAFETERIA	Diffuser	1,550	9.3	9.7	55.0	92.0		
		OFICINA 1	Diffuser	554	17.5	4.1	55.0	92.0		
		OFICINA 10	Diffuser	499	12.1	4.5	55.0	92.0		
		OFICINA 11	Diffuser	447	14.1	5.0	55.0	92.0		
		OFICINA 12	Diffuser	447	14.1	5.0	55.0	92.0		

Project Name: CECIS AGUASCALIENTES
 Dataset Name: CEDISAGUAS-01.trc

System Component Selection Summary

By Trial

Component Location			Miscellaneous Component Selection							
System	Zone	Room	Component	Design Airflow		Outside Air %	SADB		Clg VAV Minimum cfm	Htg VAV Maximum cfm
				cfm	Ach/hr		Clg °F	Htg °F		
		OFICINA 13	Diffuser	489	15.4	4.6	55.0	92.0		
		OFICINA 14	Diffuser	489	15.4	4.6	55.0	92.0		
		OFICINA 2	Diffuser	451	14.2	5.0	55.0	92.0		
		OFICINA 3	Diffuser	451	14.2	5.0	55.0	92.0		
		OFICINA 4	Diffuser	451	14.2	5.0	55.0	92.0		
		OFICINA 5	Diffuser	451	14.2	5.0	55.0	92.0		
		OFICINA 6	Diffuser	502	15.8	4.5	55.0	92.0		
		OFICINA 7	Diffuser	502	15.8	4.5	55.0	92.0		
		OFICINA 8	Diffuser	696	9.6	3.2	55.0	92.0		
		OFICINA 9	Diffuser	499	12.1	4.5	55.0	92.0		
		SALA DE JUNTAS 1	Diffuser	866	13.4	10.4	55.0	92.0		
		SALA DE JUNTAS 2	Diffuser	979	13.5	9.2	55.0	92.0		
		SALA DE JUNTAS 3	Diffuser	594	18.7	5.1	55.0	92.0		
		SALA DE JUNTAS 4	Diffuser	594	18.7	5.1	55.0	92.0		
		SALA DE JUNTAS 5	Diffuser	860	13.3	10.5	55.0	92.0		
		VESTIBULO1	Diffuser	7,327	4.3	13.3	55.0	92.0		
	CECIS		Primary Fan	8,867		7.5	55.0			
		AREA 1	Diffuser	1,348	18.8	2.8	55.0	88.0		
		OFICINA 15	Diffuser	529	17.6	4.3	55.0	88.0		
		OFICINA 16	Diffuser	529	17.6	4.3	55.0	88.0		
		SALA DE JUNTAS 6	Diffuser	1,418	15.2	9.5	55.0	88.0		
		VESTIBULO 2	Diffuser	5,044	7.6	8.9	55.0	88.0		

ZONE PSYCHROMETRIC STATE POINTS

By Trial

ADMINISTRATIVO

	Dry Bulb °F	Wet Bulb °F	Relative Humidity %	Humidity Ratio gr/lb	Enthalpy Btu/lb	Temperature Difference °F
Space	75.0	59.3	42.5	68.5	28.7	
Main System						
Return Fan						0.0
Return Air	75.0	59.3	42.5	68.5	28.7	
Return Air Heat Pickup						0.0
Outdoor Air	93.0	59.8	14.8	42.3	29.0	
Entering OA preconditioning	93.0	59.8	14.8	42.3	29.0	
Leaving OA preconditioning	93.0	59.8	14.8	42.3	29.0	
Return/Outdoor Air Mix	76.7	59.3	38.7	66.0	28.7	
Blow Through Fan						0.0
Entering Coil	76.7	59.3	38.7	66.0	28.7	
Leaving Coil	54.3	51.2	82.5	64.5	23.0	
Draw Through Fan						0.2
Fan Frictional Heat						0.4
Supply Duct Heat Gain						0.0
Reheat Device						0.0
Cold Deck Supply Air	55.0	51.4	80.5	64.5	23.2	
Supply Air	55.0	51.4	80.5	64.5	23.2	
Percent Outside Air	9.53					
Sensible Heat Ratio (SHR)	0.87	%				
Coil Airflow	20,931	cfm				

Warning: The psychrometric loop was unable to close to within an acceptable range. It is recommended that constraints be placed on the maximum/minimum supply air temperature on the 'Create Systems -- Temperatures' tab.

ZONE PSYCHROMETRIC STATE POINTS

By Trial

CECIS

	Dry Bulb °F	Wet Bulb °F	Relative Humidity %	Humidity Ratio gr/lb	Enthalpy Btu/lb	Temperature Difference °F
Space	75.0	58.9	41.5	66.8	28.4	
Main System						
Return Fan						0.0
Return Air	75.0	58.9	41.5	66.8	28.4	
Return Air Heat Pickup						0.0
Outdoor Air	93.0	59.8	14.8	42.3	29.0	
Entering OA preconditioning	93.0	59.8	14.8	42.3	29.0	
Leaving OA preconditioning	93.0	59.8	14.8	42.3	29.0	
Return/Outdoor Air Mix	76.4	59.0	38.6	65.0	28.5	
Blow Through Fan						0.0
Entering Coil	76.4	59.0	38.6	65.0	28.5	
Leaving Coil	54.3	51.0	81.5	63.7	22.9	
Draw Through Fan						0.2
Fan Frictional Heat						0.4
Supply Duct Heat Gain						0.0
Reheat Device						0.0
Cold Deck Supply Air	55.0	51.2	79.6	63.7	23.1	
Supply Air	55.0	51.2	79.6	63.7	23.1	
Percent Outside Air	7.53					
Sensible Heat Ratio (SHR)	0.90	%				
Coil Airflow	8,867	cfm				

Warning: The psychrometric loop was unable to close to within an acceptable range. It is recommended that constraints be placed on the maximum/minimum supply air temperature on the 'Create Systems -- Temperatures' tab.