



General Project Data Input

General Project Information

Project file name: D:\Proyectos\Nestor Ruiz\Hospital Sagaro\0. Anexo\0.1 Aire Acondicionado\Hospital Sagaro prueba.CHV

Project title: Hospital Sagaro

Project date: jueves, 30 de Setiembre de 2021

Project location: TUMBES, TUMBES, PERU

Barometric pressure: 1010.387 mbar

Altitude: 0 meters

Latitude: -3 Degrees

Mean daily temperature range: 9 Degrees

Starting & ending time for HVAC load calculations: 1am - 12am

Number of unique zones in this project: 246

Building Default Values

Calculations performed: Both heating and cooling loads

Lighting requirements: 10.00 Watts per square meter

Equipment requirements: 30.00 Watts per square meter

People sensible load multiplier: 80 Watts per person

People latent load multiplier: 80 Watts per person

Zone sensible safety factor: 5 %

Zone latent safety factor: 5 %

Zone heating safety factor: 8 %

People diversity factor: 100 %

Lighting profile number: 1

Equipment profile number: 1

People profile number: 1

Building default ceiling height: 3.0 meters

Building default wall height: 4.0 meters

Internal Operating Load Profiles (C = 100)

	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr	hr
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	0	0	0	0	0	0	C	C	C	C	C	C	C	C	C	C	C	C	C	0	0	0	0	0
2	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
3	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
4	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
5	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
6	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
7	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
9	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C



General Project Data Input (cont'd)

Building-Level Design Conditions

Design Month	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grams Diff	In/Outdoor Correction
January	30	24	50%	23	7.64	-1
February	30	24	50%	23	7.33	-1
March	30	24	50%	23	8.28	-1
April	30	25	50%	23	8.60	-1
May	30	25	50%	23	8.53	-2
June	28	23	50%	23	6.89	-3
July	27	22	50%	23	5.76	-5
August	26	21	50%	23	5.32	-6
September	26	22	50%	23	5.93	-5
October	27	22	50%	23	6.30	-4
November	28	23	50%	23	6.92	-3
December	28	23	50%	23	6.92	-3
Winter	18			21		

Master Roofs

Roof No.	ASHRAE Roof#	Roof U-Fac	Dark Color	Susp. Ceil
1	1	2.210	No	Si

Master Walls

Wall No.	ASHRAE Group	Wall U-Fac	Wall Color
1	B	2.000	M

Master Partitions

Partition No.	Partition U-Factor	Cool T-D	Heat T-D
1	2.360	4	8
2	2.210	4	8
3	2.360	4	5
4	2.210	4	5

Master Glass

Glass No.	Summer U-Factor	Winter U-Factor	Glass Shd.Coef.	Interior Shading	Interior Shd.Coef
1	5.700	5.800	0.950	1	0.700



Building Summary Loads

Building peaks in April at 3pm.

Bldg Load Descriptions	Area Quan	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Roof	2,131	18,301	3.73	0	100,947	100,947	6.87
Wall	1,646	11,862	2.42	0	20,765	20,765	1.41
Glass	341	7,134	1.46	0	74,943	74,943	5.10
Floor Slab	0	0	0.00	0	0	0	0.00
Skin Loads		37,297	7.61	0	196,655	196,655	13.37
Lighting	59,005	0	0.00	0	61,955	61,955	4.21
Equipment	161,006	0	0.00	0	169,056	169,056	11.50
People	1,225	0	0.00	89,859	98,792	188,652	12.83
Partition	20,770	401,835	81.98	0	195,336	195,336	13.28
Cool. Pret.	0	0	0.00	0	0	0	0.00
Heat. Pret.	0	0	0.00	0	0	0	0.00
Cool. Vent.	16,562	0	0.00	450,606	142,595	593,201	40.34
Heat. Vent.	12,206	51,035	10.41	0	0	0	0.00
Cool. Infil.	0	0	0.00	0	0	0	0.00
Heat. Infil.	0	0	0.00	0	0	0	0.00
Draw-Thru Fan	0	0	0.00	0	0	0	0.00
Blow-Thru Fan	0	0	0.00	0	10,465	10,465	0.71
Reserve Cap.	0	0	0.00	0	41,780	41,780	2.84
Reheat Cap.	0	0	0.00	0	0	0	0.00
Supply Duct	0	0	0.00	0	7,133	7,133	0.49
Return Duct	0	0	0.00	0	6,168	6,168	0.42
Misc. Supply	0	0	0.00	0	0	0	0.00
Misc. Return	0	0	0.00	0	0	0	0.00
Building Totals		490,167	100.00	540,465	929,937	1,470,401	100.00

Building Summary	Sen Loss	%Tot Loss	Lat Gain	Sen Gain	Net Gain	%Net Gain
Ventilation	51,035	10.41	450,606	142,595	593,201	40.34
Infiltration	0	0.00	0	0	0	0.00
Pretreated Air	0	0.00	0	0	0	0.00
Zone Loads	439,132	89.59	89,859	763,575	853,434	58.04
Plenum Loads	0	0.00	0	0	0	0.00
Fan & Duct Loads	0	0.00	0	23,767	23,767	1.62
Building Totals	490,166	100.00	540,465	929,937	1,470,402	100.00

Check Figures

Total Building Supply Air (based on a 11° TD):	57,991 L/s	
Total Building Vent. Air (28.56% of Supply):	16,562 L/s	
Total Conditioned Air Space:	5,901 Sq.m	
Supply Air Per Unit Area:	9.8282 L/s/Sq.m	
Area Per Cooling Capacity:	4.0129 Sq.m/kW	14.1126 Sq.m/Ton
Cooling Capacity Per Area:	0.2492 kW/Sq.m	0.0709 Tons/Sq.m
Total Heating Required With Outside Air:	490.17 kW	
Total Cooling With Outside Air:	1,470.40 kW	418.10 Tons



Air Handler #1 - Fc - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
1	101 Entrevista Familiar 8am May	9	1,418	2,336	378	2/Hr	2/Hr
		6	84	174	0	15	15
		28	9.10	18.94	0	32	33
2	105 Estar Choferes 9am April	12	1,195	2,030	236	2/Hr	2/Hr
		5	71	151	0	20	20
		36	5.88	12.62	0	27	29
3	107 Triage 7pm December	11	1,205	1,265	252	2/Hr	2/Hr
		3	71	94	0	18	18
		32	6.65	8.82	0	27	18
4	108 Espera 2pm May	109	5,370	8,314	898	2/Hr	2/Hr
		19	317	620	0	182	182
		327	2.91	5.68	0	120	119
5	109 Servicio Social 7pm May	10	998	1,393	189	2/Hr	2/Hr
		3	59	104	0	16	16
		29	6.20	10.94	0	22	20
6	110 Ref Cref 7pm December	9	1,119	1,194	189	2/Hr	2/Hr
		3	66	89	0	16	16
		28	7.03	9.47	0	25	17
7	111 Seguros 7pm December	10	1,251	1,268	189	2/Hr	2/Hr
		3	74	95	0	17	17
		31	7.10	9.10	0	28	18
8	113 Admisión 7pm December	13	1,342	1,573	126	2/Hr	2/Hr
		2	79	117	0	21	21
		38	6.24	9.24	0	30	22
9	113.1 Dispensación Y Expendio De Medicam 7am December	31	1,782	3,604	252	2/Hr	2/Hr
		3	105	269	0	52	52
		93	3.40	8.70	0	40	51
10	114 Topico De Intectables 5pm January	22	1,732	3,016	252	2/Hr	2/Hr
		3	102	225	0	36	36
		65	4.69	10.32	0	39	43
11	115 Topico Cirugia 5pm January	17	1,519	2,512	252	2/Hr	2/Hr
		3	90	187	0	29	29
		52	5.18	10.83	0	34	36
12	116 Sala De Rehidratación 9am April	15	1,350	2,544	252	2/Hr	2/Hr
		3	80	190	0	26	26
		46	5.21	12.40	0	30	36
13	117 Topico Medicina 9am April	16	1,386	2,734	252	2/Hr	2/Hr
		3	82	204	0	27	27
		48	5.08	12.67	0	31	39



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
14	118 Sala De Espera Para Reevaluación 9am April	62 9 186	4,271 252 4.06	4,392 328 5.28	425 0 0	2/Hr 104 96	2/Hr 104 63
15	119 Topico Pediatria 9am April	16 3 49	1,372 81 4.94	2,754 205 12.53	252 0 0	2/Hr 27 31	2/Hr 27 39
16	120 Terapia Medios Fisicos 7pm December	5 2 15	838 49 9.89	943 70 14.06	168 0 0	2/Hr 8 19	2/Hr 8 13
17	121 Topico Gineco Obstetricia 7pm December	16 3 48	1,526 90 5.66	1,633 122 7.66	252 0 0	2/Hr 27 34	2/Hr 27 23
18	126 Policia Nacional 7pm May	12 3 35	1,162 69 5.86	1,540 115 9.82	189 0 0	2/Hr 20 26	2/Hr 20 22
23	134 Estar De Perosnal De Guardia 5pm January	15 6 46	1,440 85 5.56	2,575 192 12.55	284 0 0	2/Hr 26 32	2/Hr 26 37
24	142 Secretaria 7pm December	11 3 32	1,322 78 7.29	1,306 97 9.10	189 0 0	2/Hr 18 30	2/Hr 18 19
25	143 Jefatura 7pm December	13 3 38	1,433 85 6.66	1,381 103 8.11	189 0 0	2/Hr 21 32	2/Hr 21 20
31	158 Oficina Coe 7pm December	13 3 38	1,405 83 6.64	1,365 102 8.15	189 0 0	2/Hr 21 31	2/Hr 21 19
32	161 Cocina Comedor 7am December	49 5 147	4,237 250 5.10	5,437 406 8.28	412 0 0	2/Hr 82 95	2/Hr 82 78
33	165 Habitación Gestante Adolescente 5pm January	15 2 44	1,380 81 5.54	2,420 181 12.28	168 0 0	2/Hr 25 31	2/Hr 25 35
34	166 Habetación Gestante Sola 7am December	11 1 32	507 30 2.80	1,425 106 9.93	84 0 0	2/Hr 18 11	2/Hr 18 20



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
35	169 Habitacupin Gestante Con Pareja 5pm January	16 2 47	1,143 67 4.35	2,616 195 12.59	168 0 0	2/Hr 26 26	2/Hr 26 37
36	170 Gimnasio Para Adultos Y Niños 3pm May	50 8 151	2,905 171 3.40	6,133 457 9.08	2,688 0 0	2/Hr 84 65	2/Hr 84 88
37	179 Jefatura 7pm May	16 3 48	1,420 84 5.27	1,629 121 7.64	189 0 0	2/Hr 27 32	2/Hr 27 23
38	180 Sala De Espera 2pm May	56 18 169	2,405 142 2.52	5,092 380 6.73	850 0 0	2/Hr 94 54	2/Hr 94 73
39	187 Sala De Fisioterapia 7pm December	34 3 101	2,490 147 4.37	2,475 185 5.50	282 0 0	2/Hr 56 56	2/Hr 56 35
40	188 Hidroterapia Medios Superiores 7pm December	19 2 57	2,894 171 8.95	2,248 168 8.78	168 0 0	2/Hr 32 65	2/Hr 32 32
41	192 Historias Clinicas 7pm December	29 1 88	2,324 137 4.68	1,831 137 4.66	63 0 0	2/Hr 49 52	2/Hr 49 26
42	193 Caja 7pm December	7 1 20	981 58 8.90	939 70 10.77	63 0 0	2/Hr 11 22	2/Hr 11 13
43	194 Admisión Y Citas 7pm December	14 2 43	1,486 88 6.18	1,659 124 8.71	126 0 0	2/Hr 24 33	2/Hr 24 24
44	196 Central De Vigilancia Y Seguridad 7am December	19 4 58	1,757 104 5.35	2,740 204 10.53	252 0 0	2/Hr 32 39	2/Hr 32 39
46	198 Almacen Especializado 7pm December	51 3 154	3,269 193 3.77	2,678 200 3.90	189 0 0	2/Hr 85 73	2/Hr 85 38
47	199 Dispensacion Y Expendio 7pm December	41 3 122	2,878 170 4.19	2,690 201 4.95	189 0 0	2/Hr 68 64	2/Hr 68 38



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
48	1100 Farmacovig Y	23	1,909	2,270	378	2/Hr	2/Hr
	Tecnovigi	6	113	169	0	38	38
	7pm December	68	4.94	7.43	0	43	32
49	1101 Gestion De	13	1,379	1,358	189	2/Hr	2/Hr
	Programación	3	81	101	0	22	22
	7pm December	39	6.26	7.79	0	31	19
50	1104 Jefatura	17	1,707	2,109	378	2/Hr	2/Hr
	Secretaria	6	101	157	0	28	28
	7pm December	50	6.00	9.36	0	38	30
51	1107 Dosis Unitaria	28	2,226	2,245	441	2/Hr	2/Hr
	7pm December	7	131	167	0	47	47
		85	4.66	5.94	0	50	32
52	1108 Jefatura	15	1,568	2,025	378	2/Hr	2/Hr
	Secretaria	6	93	151	0	26	26
	7pm December	46	6.05	9.87	0	35	29
53	1109 Sala De	17	1,623	1,849	252	2/Hr	2/Hr
	Ecografia General	3	96	138	0	28	28
	7pm December	51	5.64	8.11	0	36	26
54	1113 Sala De	22	2,047	2,407	189	2/Hr	2/Hr
	Impresió	3	121	180	0	37	37
	7pm December	66	5.49	8.16	0	46	34
55	1114 Comando	6	886	1,202	63	2/Hr	2/Hr
	7pm December	1	52	90	0	10	10
		18	8.72	14.95	0	20	17
56	1115 Sala De	20	1,740	2,793	168	2/Hr	2/Hr
	Radiologia	2	103	208	0	33	33
	Convencional	59	5.27	10.68	0	39	40
57	1116 Recepción	11	1,323	1,545	126	2/Hr	2/Hr
	7pm December	2	78	115	0	18	18
		33	7.17	10.57	0	30	22
63	1128 Registro De	6	857	870	63	2/Hr	2/Hr
	Laboratorio	1	51	65	0	9	9
	7pm December	17	8.88	11.39	0	19	12



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
64	1129 Toma De Muestras Sanguinea 7pm December	9	1,058	1,077	126	2/Hr	2/Hr
		2	62	80	0	14	14
		26	7.26	9.34	0	24	15
66	1135 Recepción De Muestras 7pm December	13	1,453	1,634	126	2/Hr	2/Hr
		2	86	122	0	22	22
		40	6.45	9.16	0	32	23
67	1136 Jefatura Secretaria 7pm December	17	1,619	2,066	378	2/Hr	2/Hr
		6	96	154	0	28	28
		50	5.69	9.17	0	36	29
70	1140 Hall 7pm December	102	5,251	4,839	1,008	2/Hr	2/Hr
		12	310	361	0	170	170
		305	3.04	3.55	0	117	69
72	1148 Ref Cref 7pm December	9	1,132	1,199	189	2/Hr	2/Hr
		3	67	89	0	16	16
		28	7.19	9.62	0	25	17
73	1150 Seguros 7pm December	12	1,298	1,308	189	2/Hr	2/Hr
		3	77	98	0	20	20
		36	6.39	8.13	0	29	19
74	1151 Servicio Social 7pm December	9	1,109	1,166	189	2/Hr	2/Hr
		3	65	87	0	16	16
		28	7.04	9.35	0	25	17
79	1160 Sala De Espera 7am January	376	16,042	28,610	7,088	2/Hr	2/Hr
		150	947	2,134	0	627	627
		1,129	2.52	5.67	0	359	408
80	1161 Psicoprofilaxis 7pm December	39	2,664	2,755	420	2/Hr	2/Hr
		5	157	206	0	65	65
		117	4.02	5.26	0	60	39
81	1162 Consultorio De Gineco Obstr 7pm December	15	1,631	1,517	252	2/Hr	2/Hr
		3	96	113	0	25	25
		45	6.42	7.54	0	36	22
82	1164 Consultorio De Gineco Obstr 7pm December	15	1,631	1,517	252	2/Hr	2/Hr
		3	96	113	0	25	25
		45	6.42	7.54	0	36	22
83	1166 Control Prenatal 7pm December	15	1,629	1,511	252	2/Hr	2/Hr
		3	96	113	0	24	24
		44	6.63	7.77	0	36	22



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
84	1173 Planificación Familiar 5pm January	15 3 44	1,358 80 5.49	2,601 194 13.29	252 0 0	2/Hr 24 30	2/Hr 24 37
85	1174 Sala De Estimulación Temprana 5pm January	19 3 58	1,552 92 4.72	2,784 208 10.70	252 0 0	2/Hr 32 35	2/Hr 32 40
86	1176 Consultorio De Pediatría 5pm January	15 3 44	1,423 84 5.76	2,633 196 13.45	252 0 0	2/Hr 24 32	2/Hr 24 38
87	1177 Consultorio De Pediatría 5pm January	15 3 44	1,423 84 5.76	2,633 196 13.45	252 0 0	2/Hr 24 32	2/Hr 24 38
88	1178 Consultorio De Crecimiento Y Desarr 5pm January	17 3 52	1,463 86 4.99	2,704 202 11.66	252 0 0	2/Hr 29 33	2/Hr 29 39
89	1179 Sala De Inmunizaciones 5pm January	15 3 46	1,384 82 5.34	2,629 196 12.82	252 0 0	2/Hr 26 31	2/Hr 26 38
90	1180 At Int Del Adulto Mayor 5pm January	15 3 46	1,391 82 5.37	2,633 196 12.83	252 0 0	2/Hr 26 31	2/Hr 26 38
91	1183 Cyp De Enferm 7pm March	16 3 49	1,392 82 5.04	1,590 119 7.28	252 0 0	2/Hr 27 31	2/Hr 27 23
92	1184 Cyp De Enf. No Trans 5pm January	15 3 44	1,358 80 5.49	2,601 194 13.29	252 0 0	2/Hr 24 30	2/Hr 24 37
93	1185 Triaje 5pm January	13 3 39	1,363 80 6.14	2,577 192 14.67	252 0 0	2/Hr 22 30	2/Hr 22 37
110	205.1 Estación De Obstetricia 3pm April	12 2 37	1,311 77 6.29	1,789 133 10.85	168 0 0	2/Hr 21 29	2/Hr 21 26



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
112	211 Estar De Personal 3pm April	12 6 37	1,165 69 5.59	1,949 145 11.82	504 0 0	2/Hr 21 26	2/Hr 21 28
113	212 Control 3pm April	7 1 20	858 51 7.56	1,175 88 13.08	63 0 0	2/Hr 11 19	2/Hr 11 17
128	247 Estar De Personal 3pm April	14 7 42	1,559 92 6.57	2,317 173 12.35	588 0 0	2/Hr 23 35	2/Hr 23 33
129	249 Control 3pm April	5 1 15	722 43 8.70	1,017 76 15.48	84 0 0	2/Hr 8 16	2/Hr 8 15
130	250 Coordinación De Enfermeria 3pm April	12 6 36	1,179 70 5.75	2,019 151 12.44	378 0 0	2/Hr 20 26	2/Hr 20 29
131	251 Jefatura Secretaria 3pm April	16 2 48	1,428 84 5.30	2,346 175 11.01	126 0 0	2/Hr 27 32	2/Hr 27 33
132	252 Sala De Reuniones 3pm April	12 6 37	1,165 69 5.59	2,054 153 12.46	504 0 0	2/Hr 21 26	2/Hr 21 29
134	254 Jefatura 3pm April	11 3 34	1,149 68 6.06	1,719 128 11.45	189 0 0	2/Hr 19 26	2/Hr 19 25
140	269 Unidad De Logistica 2pm May	31 6 92	1,453 86 2.79	6,397 477 15.54	378 0 0	2/Hr 51 32	2/Hr 51 91
141	270 Unidad De Personal 2pm May	30 7 90	1,716 101 3.37	6,663 497 16.51	441 0 0	2/Hr 50 38	2/Hr 50 95
142	271 Unidad De Personal 2pm May	30 7 90	1,716 101 3.37	6,663 497 16.51	441 0 0	2/Hr 50 38	2/Hr 50 95
143	272 Secretaria 2pm May	25 6 74	1,559 92 3.76	4,806 358 14.63	378 0 0	2/Hr 41 35	2/Hr 41 69



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
144	273 Unidad De Gestion De La Calidad 2pm May	25 5 74	1,550 91 3.73	5,105 381 15.54	315 0 0	2/Hr 41 35	2/Hr 41 73
145	274 Secretaria 2pm May	15 3 45	1,312 77 5.16	3,505 261 17.43	189 0 0	2/Hr 25 29	2/Hr 25 50
146	275 Dirección General 2pm May	24 9 72	1,419 84 3.50	5,286 394 16.50	567 0 0	2/Hr 40 32	2/Hr 40 75
147	277 Unidad De Asesoría Jurídica 5pm January	10 3 29	811 48 5.04	2,147 160 16.86	189 0 0	2/Hr 16 18	2/Hr 16 31
148	279 Oficina De Planeamiento 5pm January	31 5 92	2,203 130 4.25	4,359 325 10.63	315 0 0	2/Hr 51 49	2/Hr 51 62
149	280 Unidad De Seguros 7pm December	27 5 80	2,215 131 4.88	2,697 201 7.51	315 0 0	2/Hr 45 50	2/Hr 45 39
150	281 Sala De Espera 7pm December	24 12 73	2,106 124 5.12	2,497 186 7.66	1,008 0 0	2/Hr 41 47	2/Hr 41 36
151	282 Tramite Documentario 7pm December	9 1 28	1,154 68 7.25	1,049 78 8.32	59 0 0	2/Hr 16 26	2/Hr 16 15
152	283 Sala De Usos Múltiples 7pm December	24 21 73	2,046 121 4.97	3,318 247 10.19	992 0 0	2/Hr 41 46	2/Hr 41 47
153	284 Epidemiología Y Salud Ocupacional 7pm December	37 12 110	2,658 157 4.28	3,945 294 8.02	1,008 0 0	2/Hr 61 59	2/Hr 61 56
154	291 Sala De Espera Centro Obstetrico 7pm December	48 30 145	3,801 224 4.66	5,084 379 7.87	2,520 0 0	2/Hr 80 85	2/Hr 80 73
156	194 Sala De Refracción 7pm December	26 4 79	2,112 125 4.72	2,270 169 6.41	336 0 0	2/Hr 44 47	2/Hr 44 32



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
157	195 Sala De Ecografia Obstetrica 7pm December	16	1,559	1,491	252	2/Hr	2/Hr
		3	92	111	0	26	26
		47	5.83	7.04	0	35	21
158	197 Recepción Y Control 7pm December	12	1,472	1,403	252	2/Hr	2/Hr
		3	87	105	0	19	19
		35	7.56	9.10	0	33	20
160	2015 Sala De Electro Cardiografia 7pm December	14	1,458	1,425	252	2/Hr	2/Hr
		3	86	106	0	24	24
		43	6.06	7.48	0	33	20
161	2106 Sala De Holter Y Mapa 7pm December	11	1,252	1,293	252	2/Hr	2/Hr
		3	74	96	0	19	19
		34	6.60	8.61	0	28	18
162	2107 Sala De Espirometria 7pm December	12	1,295	1,320	252	2/Hr	2/Hr
		3	76	98	0	20	20
		35	6.48	8.35	0	29	19
167	2118 Jefatura 7pm December	12	1,306	1,312	189	2/Hr	2/Hr
		3	77	98	0	20	20
		36	6.43	8.16	0	29	19
168	2119 Promoción De Donación De Sangre 7pm December	16	1,600	1,852	588	2/Hr	2/Hr
		7	94	138	0	27	27
		49	5.80	8.47	0	36	26
169	21120 Centro Computo li 7pm December	13	1,384	2,776	315	2/Hr	2/Hr
		5	82	207	0	21	21
		38	6.38	16.16	0	31	40
170	21121 Sala De Control Elect. 7pm December	6	946	2,180	63	2/Hr	2/Hr
		1	56	163	0	11	11
		19	8.86	25.81	0	21	31
171	2122 Sala De Administr. 7pm December	9	1,139	1,440	126	2/Hr	2/Hr
		2	67	107	0	16	16
		28	7.15	11.42	0	25	21
173	21125 Jefatura 7pm December	12	1,306	1,312	189	2/Hr	2/Hr
		3	77	98	0	20	20
		36	6.43	8.16	0	29	19



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
174	2126 Central De Comunic 7pm December	9 2 27	1,110 66 7.20	1,107 83 9.08	126 0 0	2/Hr 15 25	2/Hr 15 16
175	2128 Oficina De Informatica 7pm December	24 4 72	2,126 125 5.21	2,861 213 8.86	252 0 0	2/Hr 40 48	2/Hr 40 41
178	2134 Sala De Usos Multiples 7pm December	103 82 310	5,316 314 3.04	10,327 770 7.45	3,875 0 0	2/Hr 172 119	2/Hr 172 147
179	2140 Sala De Espera 7pm December	377 135 1,130	17,572 1,037 2.75	24,467 1,825 4.84	11,340 0 0	2/Hr 628 393	2/Hr 628 349
180	2142 Triaje 5pm January	13 3 39	1,315 78 5.93	2,554 190 14.54	252 0 0	2/Hr 22 29	2/Hr 22 36
181	2143 Consejeria Y Prevención Del Cancer 5pm January	14 3 42	1,382 82 5.78	2,431 181 12.86	252 0 0	2/Hr 24 31	2/Hr 24 35
182	2144 At Int Y Consejeria 5pm January	15 1 44	1,376 81 5.57	2,363 176 12.07	123 0 0	2/Hr 24 31	2/Hr 24 34
183	2145 Consultorio De Nutrición 5pm January	15 3 44	1,376 81 5.57	2,611 195 13.34	252 0 0	2/Hr 24 31	2/Hr 24 37
184	2146 Consultorio De Odontologia 5pm January	39 3 116	3,020 178 4.61	7,191 536 13.86	252 0 0	2/Hr 65 68	2/Hr 65 103
185	2148 Consultorio De Psiquiatria 5pm January	15 1 44	1,382 82 5.63	2,365 176 12.16	122 0 0	2/Hr 24 31	2/Hr 24 34
186	2149 Consultorio De Psicologia 5pm January	15 3 46	1,404 83 5.42	2,639 197 12.86	252 0 0	2/Hr 26 31	2/Hr 26 38



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
187	2151 Consultorio De Neumogolia 5pm January	15 3 44	1,376 81 5.57	2,611 195 13.34	252 0 0	2/Hr 24 31	2/Hr 24 37
188	2157 Consultorio De Cirugia 7pm December	17 3 51	1,678 99 5.79	1,562 117 6.81	252 0 0	2/Hr 29 38	2/Hr 29 22
189	2159 Topico De Procedimientos 7pm December	17 3 51	1,754 104 6.06	1,757 131 7.66	252 0 0	2/Hr 29 39	2/Hr 29 25
190	2160 Consultorio De Medicina Interna 7pm December	17 3 51	1,678 99 5.79	1,562 117 6.81	252 0 0	2/Hr 29 38	2/Hr 29 22
191	2161 Consultorio De Oftalmologia 7pm December	18 3 54	1,719 101 5.64	1,592 119 6.60	252 0 0	2/Hr 30 38	2/Hr 30 23
192	2162 Consultorio De Cardiologia 7pm December	17 3 51	1,670 99 5.77	1,558 116 6.80	252 0 0	2/Hr 29 37	2/Hr 29 22
193	2163 Tele Consultorio 7pm December	21 7 62	1,839 109 5.29	2,327 174 8.47	588 0 0	2/Hr 34 41	2/Hr 34 33
194	2164 Oficina De Estadistica 7pm December	27 3 82	2,163 128 4.66	1,906 142 5.19	252 0 0	2/Hr 46 48	2/Hr 46 27
195	301 Habitación 3pm April	15 2 44	1,296 77 5.24	1,802 134 9.21	168 0 0	2/Hr 24 29	2/Hr 24 26
196	303 Habitación 3pm April	14 2 43	1,286 76 5.31	1,781 133 9.29	168 0 0	2/Hr 24 29	2/Hr 24 25
197	306 Cocina Comedor 3pm April	39 6 116	2,607 154 3.98	4,401 328 8.48	504 0 0	2/Hr 65 58	2/Hr 65 63
198	307 Estación De Enfermeras 2pm May	53 3 158	2,836 167 3.18	7,361 549 10.44	189 0 0	2/Hr 88 63	2/Hr 88 105



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
199	312 Topico De Procedimientos 3pm April	19 2 56	1,486 88 4.69	2,380 177 9.49	168 0 0	2/Hr 31 33	2/Hr 31 34
201	324 Sala De Espera Hosp Adulto 4pm January	40 12 121	2,096 124 3.08	8,280 618 15.36	1,008 0 0	2/Hr 67 47	2/Hr 67 118
202	325 Estar De Personal Hombres 4pm January	13 7 39	1,095 65 4.97	3,069 229 17.61	331 0 0	2/Hr 22 24	2/Hr 22 44
203	326 Estar De Personal Mujeres 4pm January	13 7 39	1,095 65 4.97	3,069 229 17.61	331 0 0	2/Hr 22 24	2/Hr 22 44
204	327 Oficina De Control Nutricional 4pm January	13 3 38	1,082 64 5.11	2,861 213 17.07	189 0 0	2/Hr 21 24	2/Hr 21 41
208	336 Sala De Reuniones 10am April	15 8 46	1,180 70 4.58	2,792 208 13.70	336 0 0	2/Hr 25 26	2/Hr 25 40
209	337 Jefatura 2pm May	13 3 38	1,091 64 5.03	2,636 197 15.36	189 0 0	2/Hr 21 24	2/Hr 21 38
210	339 Secretaria 3pm April	11 3 32	1,124 66 6.14	1,685 126 11.64	189 0 0	2/Hr 18 25	2/Hr 18 24
211	344 Topico De Procedimientos Pediatria 3pm April	17 2 50	1,379 81 4.90	2,193 164 9.85	94 0 0	2/Hr 28 31	2/Hr 28 31
216	352 Estación De Enfermeria 3pm April	20 3 60	2,939 173 8.67	3,067 229 11.44	189 0 0	2/Hr 33 66	2/Hr 33 44
219	357 Lactario 3pm April	11 3 32	1,115 66 6.21	1,895 141 13.34	252 0 0	2/Hr 18 25	2/Hr 18 27
220	358 Sala De Juegos 2pm May	13 4 40	1,109 65 4.88	2,890 216 16.09	336 0 0	2/Hr 22 25	2/Hr 22 41



Air Handler #1 - Fc - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
230	384 Topico De Procedimientos 10am April	15	1,236	2,882	94	2/Hr	2/Hr
		2	73	215	0	25	25
		46	4.80	14.14	0	28	41
231	385 Sala De Espera Hosp Gineco 2pm January	35	2,551	5,196	1,008	2/Hr	2/Hr
		12	151	388	0	58	58
		104	4.34	11.17	0	57	74
Zone Peak Totals:		3,640	271,339	424,959	67,337		
Total Zones: 143		976	16,018	31,697	0	6,067	6,067
Unique Zones: 143		10,921	4.40	8.71	0	6,067	6,068



Air Handler #1 - Fc - Total Load Summary

Air Handler Description: Fc Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 3.96 kW
 Fan Input: 80% motor and fan efficiency with 0.1 kPa across the fan
 Sensible Heat Ratio: 0.86 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 4pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	271,339 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	22,024 Watts	6,067 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			293,364 Watts

Heating Supply Air: $271,339 / (1.000 \times 1.21 \times 14) =$	16,018 L/s
Winter Vent Outside Air (37.9% of supply) =	6,067 L/s

Zone space sensible gain:	399,215 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	3,899 Watts		
Reserve sensible gain:	25,733 Watts		
Total sensible gain on supply side of coil:			428,846 Watts

Cooling Supply Air: $428,846 / (1.000 \times 1.23 \times 11) =$	31,696 L/s
Summer Vent Outside Air (19.1% of supply) =	6,067 L/s

Return duct sensible gain:	3,899 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	52,240 Watts	6,067 L/s	
Blow-thru fan sensible gain:	3,947 Watts		
Total sensible gain on return side of coil:			60,085 Watts
Total sensible gain on air handling system:			488,932 Watts

Zone space latent gain:	67,337 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	165,080 Watts		
Total latent gain on air handling system:			232,416 Watts
Total system sensible and latent gain:			721,348 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	31,696 L/s	
Total Air Handler Vent. Air (19.14% of Supply):	6,067 L/s	
Total Conditioned Air Space:	3,640 Sq.m	
Supply Air Per Unit Area:	8.7067 L/s/Sq.m	
Area Per Cooling Capacity:	5.0467 Sq.m/kW	17.7484 Sq.m/Ton
Cooling Capacity Per Area:	0.1982 kW/Sq.m	0.0563 Tons/Sq.m
Total Heating Required With Outside Air:	293.36 kW	
Total Cooling With Outside Air:	721.35 kW	205.11 Tons



Air Handler #2 - Uma-n1-obs - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
19	128 Uvi 7pm December	24 2 71	2,061 170 7.16	2,050 153 6.42	147 0 0	2/Hr 40 60	2/Hr 40 46
26	144 Sala De Observacion Mujeres 9am April	151 8 452	7,574 626 4.16	9,877 737 4.89	672 0 0	2/Hr 251 219	2/Hr 251 220
27	147 Sala De Observacion Hombres 7pm December	76 5 227	4,528 374 4.94	4,991 372 4.92	420 0 0	2/Hr 126 131	2/Hr 126 111
28	148 Sala De Observación Pediatría 9am April	43 3 128	2,710 224 5.26	4,961 370 8.69	252 0 0	2/Hr 71 78	2/Hr 71 111
	Zone Peak Totals:	293	16,873	21,879	1,491		
	Total Zones: 4	18	1,395	1,632	0	488	488
	Unique Zones: 4	878	4.76	5.58	0	488	488



Air Handler #2 - Uma-n1-obs - Total Load Summary

Air Handler Description: Uma-n1-obs Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.94 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 1pm in April.
 Outdoor Conditions: 29° DB, 25° WB, 17.76 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in April at 9am is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 21,879.

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	16,873 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	2,361 Watts	488 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			19,235 Watts

Heating Supply Air: 16,873 / (1.000 X 1.21 X 10) =	1,395 L/s
Winter Vent Outside Air (35.0% of supply) =	488 L/s

Zone space sensible gain:	19,774 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	201 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			19,975 Watts

Cooling Supply Air: 22,080 / (1.000 X 1.23 X 11) =	1,632 L/s
Summer Vent Outside Air (29.9% of supply) =	488 L/s

Return duct sensible gain:	201 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	3,600 Watts	488 L/s	
Blow-thru fan sensible gain:	0 Watts		
Total sensible gain on return side of coil:			3,801 Watts
Total sensible gain on air handling system:			23,776 Watts

Zone space latent gain:	1,491 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	13,883 Watts		
Total latent gain on air handling system:			15,374 Watts
Total system sensible and latent gain:			39,150 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,632 L/s	
Total Air Handler Vent. Air (29.89% of Supply):	488 L/s	
Total Conditioned Air Space:	293 Sq.m	
Supply Air Per Unit Area:	5.5756 L/s/Sq.m	
Area Per Cooling Capacity:	7.4765 Sq.m/kW	26.2936 Sq.m/Ton
Cooling Capacity Per Area:	0.1338 kW/Sq.m	0.0380 Tons/Sq.m
Total Heating Required With Outside Air:	19.23 kW	
Total Cooling With Outside Air:	39.15 kW	11.13 Tons



Air Handler #3 - Uma-n1-laboratorio - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
21	131 Laboratorio Descentralizo 5pm January	13 3 38	1,265 80 6.43	2,861 213 17.07	142 0 0	None 0 80	None 0 213
58	1122 Laboratorio De Hematología 7pm December	17 4 51	1,670 106 6.25	2,586 193 11.35	588 0 0	None 0 106	None 0 193
59	1123 Lavado Y Desin 7pm December	10 1 30	1,278 81 8.04	1,116 101 10.00	47 0 0	None 0 81	None 0 101
60	1125 Esclusa 7pm December	4 1 12	687 44 10.92	565 42 10.54	84 0 0	None 0 44	None 0 42
61	1126 Laboratorio De Bioquímica 7pm December	17 4 51	1,655 105 6.15	2,580 192 11.25	588 0 0	None 0 105	None 0 192
62	1127 Laboratorio De Microbiología 7pm December	20 4 60	2,895 184 9.20	3,213 240 11.98	588 0 0	None 0 184	None 0 240
	Zone Peak Totals:	81	9,450	12,922	2,037		
	Total Zones: 6	17	601	982	0	0	0
	Unique Zones: 6	242	7.44	12.16	0	601	982



Air Handler #3 - Uma-n1-laboratorio - Total Load Summary

Air Handler Description: Uma-n1-laboratorio Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.74 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.87 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 5pm in April.
 Outdoor Conditions: 29° DB, 25° WB, 17.72 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in January at 5pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 12,922.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	9,450 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	2,908 Watts	601 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			12,358 Watts
Heating Supply Air: $9,450 / (1.000 \times 1.21 \times 13) =$		601 L/s	
Winter Vent Outside Air (100.0% of supply) =		601 L/s	
Zone space sensible gain:	12,687 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	121 Watts		
Reserve sensible gain:	244 Watts		
Total sensible gain on supply side of coil:			13,051 Watts
Cooling Supply Air: $13,287 / (1.000 \times 1.23 \times 11) =$		982 L/s	
Summer Vent Outside Air (100.0% of supply) =		982 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	7,247 Watts	982 L/s	
Blow-thru fan sensible gain:	734 Watts		
Total sensible gain on return side of coil:			7,981 Watts
Total sensible gain on air handling system:			21,033 Watts
Zone space latent gain:	2,037 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	27,948 Watts		
Total latent gain on air handling system:			29,985 Watts
Total system sensible and latent gain:			51,017 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	982 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	982 L/s	
Total Conditioned Air Space:	81 Sq.m	
Supply Air Per Unit Area:	12.1691 L/s/Sq.m	
Area Per Cooling Capacity:	1.5818 Sq.m/kW	5.5630 Sq.m/Ton
Cooling Capacity Per Area:	0.6322 kW/Sq.m	0.1798 Tons/Sq.m
Total Heating Required With Outside Air:	12.36 kW	
Total Cooling With Outside Air:	51.02 kW	14.51 Tons



Air Handler #4 - Uma-n1-aisl.obse - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
29	150 Esclusa 7pm December	7 1 20	968 62 9.19	730 56 8.33	84 0 0	None 0 62	None 0 56
30	151 Sala De Observación Aislado 7pm December	18 2 54	1,745 111 6.20	1,666 179 10.00	158 0 0	None 0 111	None 0 179
	Zone Peak Totals:	25	2,713	2,396	242		
	Total Zones: 2	3	172	235	0	0	0
	Unique Zones: 2	74	7.01	9.55	0	172	235



Air Handler #4 - Uma-n1-aisl.obse - Total Load Summary

Air Handler Description: Uma-n1-aisl.obse Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.18 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.93 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 5pm in April.
 Outdoor Conditions: 29° DB, 25° WB, 17.72 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in December at 7pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 2,396.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,713 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	835 Watts	172 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			3,547 Watts
Heating Supply Air: $2,713 / (1.000 \times 1.21 \times 13) =$		172 L/s	
Winter Vent Outside Air (100.0% of supply) =		172 L/s	
Zone space sensible gain:	2,396 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	29 Watts		
Reserve sensible gain:	758 Watts		
Total sensible gain on supply side of coil:			3,183 Watts
Cooling Supply Air: $3,183 / (1.000 \times 1.23 \times 11) =$		235 L/s	
Summer Vent Outside Air (100.0% of supply) =		235 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	1,736 Watts	235 L/s	
Blow-thru fan sensible gain:	176 Watts		
Total sensible gain on return side of coil:			1,912 Watts
Total sensible gain on air handling system:			5,095 Watts
Zone space latent gain:	242 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	6,695 Watts		
Total latent gain on air handling system:			6,937 Watts
Total system sensible and latent gain:			12,032 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	235 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	235 L/s	
Total Conditioned Air Space:	25 Sq.m	
Supply Air Per Unit Area:	9.5637 L/s/Sq.m	
Area Per Cooling Capacity:	2.0446 Sq.m/kW	7.1906 Sq.m/Ton
Cooling Capacity Per Area:	0.4891 kW/Sq.m	0.1391 Tons/Sq.m
Total Heating Required With Outside Air:	3.55 kW	
Total Cooling With Outside Air:	12.03 kW	3.42 Tons



Air Handler #6 - Uma-n1-vih - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
75	1153 Consejera Y Prevención De Its 2pm May	14 3 41	1,287 82 5.93	2,522 188 13.63	252 0 0	None 0 82	None 0 188
76	1154 Espera 5pm January	29 6 88	2,870 182 6.23	4,549 339 11.58	504 0 0	None 0 182	None 0 339
77	1156 Sala De Targa 7pm March	8 3 24	1,011 64 8.04	1,200 89 11.18	252 0 0	None 0 64	None 0 89
	Zone Peak Totals:	51	5,168	8,271	1,008		
	Total Zones: 3	12	329	617	0	0	0
	Unique Zones: 3	153	6.43	12.07	0	329	617



Air Handler #6 - Uma-n1-vih - Total Load Summary

Air Handler Description: Uma-n1-vih Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.46 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.89 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 4pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	5,168 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	1,590 Watts	329 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			6,759 Watts

Heating Supply Air: 5,168 / (1.000 X 1.21 X 13) =	329 L/s
Winter Vent Outside Air (100.0% of supply) =	329 L/s

Zone space sensible gain:	7,501 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	76 Watts		
Reserve sensible gain:	761 Watts		
Total sensible gain on supply side of coil:			8,337 Watts

Cooling Supply Air: 8,337 / (1.000 X 1.23 X 11) =	616 L/s
Summer Vent Outside Air (100.0% of supply) =	616 L/s

Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	5,306 Watts	616 L/s	
Blow-thru fan sensible gain:	460 Watts		
Total sensible gain on return side of coil:			5,766 Watts
Total sensible gain on air handling system:			14,104 Watts

Zone space latent gain:	1,008 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	16,767 Watts		
Total latent gain on air handling system:			17,775 Watts
Total system sensible and latent gain:			31,878 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	616 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	616 L/s	
Total Conditioned Air Space:	51 Sq.m	
Supply Air Per Unit Area:	12.0596 L/s/Sq.m	
Area Per Cooling Capacity:	1.6030 Sq.m/kW	5.6374 Sq.m/Ton
Cooling Capacity Per Area:	0.6238 kW/Sq.m	0.1774 Tons/Sq.m
Total Heating Required With Outside Air:	6.76 kW	
Total Cooling With Outside Air:	31.88 kW	9.06 Tons



Air Handler #7 - Uma-n1-tbc - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
96	1190 Toma De Medic 3pm January	8 2 24	857 54 6.73	1,962 146 18.07	168 0 0	None 0 54	None 0 146
97	1193 Prevención Y Control Tbc 2pm May	14 3 41	1,142 73 5.38	2,615 195 14.45	252 0 0	None 0 73	None 0 195
	Zone Peak Totals:	22	1,999	4,577	420		
	Total Zones: 2	5	127	341	0	0	0
	Unique Zones: 2	65	5.88	15.81	0	127	341



Air Handler #7 - Uma-n1-tbc - Total Load Summary

Air Handler Description: Uma-n1-tbc Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.25 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.92 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in May at 3pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 4,244.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,999	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	615	Watts	127 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			2,614 Watts
Heating Supply Air: $1,999 / (1.000 \times 1.21 \times 13) =$			127 L/s
Winter Vent Outside Air (100.0% of supply) =			127 L/s
Zone space sensible gain:	4,222	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	42	Watts	
Reserve sensible gain:	321	Watts	
Total sensible gain on supply side of coil:			4,585 Watts
Cooling Supply Air: $4,607 / (1.000 \times 1.23 \times 11) =$			341 L/s
Summer Vent Outside Air (100.0% of supply) =			341 L/s
Return duct sensible gain:	0	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	2,932	Watts	341 L/s
Blow-thru fan sensible gain:	254	Watts	
Total sensible gain on return side of coil:			3,186 Watts
Total sensible gain on air handling system:			7,772 Watts
Zone space latent gain:	420	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	9,265	Watts	
Total latent gain on air handling system:			9,685 Watts
Total system sensible and latent gain:			17,457 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	341	L/s	
Total Air Handler Vent. Air (100.00% of Supply):	341	L/s	
Total Conditioned Air Space:	22	Sq.m	
Supply Air Per Unit Area:	15.7652	L/s/Sq.m	
Area Per Cooling Capacity:	1.2373	Sq.m/kW	4.3515 Sq.m/Ton
Cooling Capacity Per Area:	0.8082	kW/Sq.m	0.2298 Tons/Sq.m
Total Heating Required With Outside Air:	2.61	kW	
Total Cooling With Outside Air:	17.46	kW	4.96 Tons



Air Handler #8 - Uma-n2-sm - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
107	201 Sala Multifunciones 4pm April	38 8 113	1,064 68 1.79	5,216 473 12.50	1,176 0 0	None 0 68	None 0 473
Zone Peak Totals:		38	1,064	5,216	1,176		
Total Zones: 1		8	68	473	0	0	0
Unique Zones: 1		113	1.79	12.50	0	68	473



Air Handler #8 - Uma-n2-sm - Total Load Summary

Air Handler Description: Uma-n2-sm Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.35 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.84 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 4pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,064	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	327	Watts	68 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			1,392 Watts

Heating Supply Air: $1,064 / (1.000 \times 1.21 \times 13) =$	68	L/s
Winter Vent Outside Air (100.0% of supply) =	68	L/s

Zone space sensible gain:	5,216	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	58	Watts	
Reserve sensible gain:	1,128	Watts	
Total sensible gain on supply side of coil:			6,401 Watts

Cooling Supply Air: $6,401 / (1.000 \times 1.23 \times 11) =$	473	L/s
Summer Vent Outside Air (100.0% of supply) =	473	L/s

Return duct sensible gain:	0	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	4,074	Watts	473 L/s
Blow-thru fan sensible gain:	354	Watts	
Total sensible gain on return side of coil:			4,427 Watts
Total sensible gain on air handling system:			10,829 Watts

Zone space latent gain:	1,176	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	12,873	Watts	
Total latent gain on air handling system:			14,049 Watts
Total system sensible and latent gain:			24,878 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	473	L/s	
Total Air Handler Vent. Air (100.00% of Supply):	473	L/s	
Total Conditioned Air Space:	38	Sq.m	
Supply Air Per Unit Area:	12.5170	L/s/Sq.m	
Area Per Cooling Capacity:	1.5194	Sq.m/kW	5.3436 Sq.m/Ton
Cooling Capacity Per Area:	0.6581	kW/Sq.m	0.1871 Tons/Sq.m
Total Heating Required With Outside Air:	1.39	kW	
Total Cooling With Outside Air:	24.88	kW	7.07 Tons



Air Handler #9 - Uma-n2-dil - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
108	203 Atención	15	1,174	2,151	72	2/Hr	2/Hr
	Inmediata Al Recién	2	97	160	0	26	26
	Nacido 4pm May	46	6.34	10.49	0	29	26
111	208 Sala De	29	2,401	2,398	189	2/Hr	2/Hr
	Puerperio Inmediato	4	198	292	0	49	49
	7pm December	88	6.80	10.00	0	59	47
114	213 Sala De	55	3,044	5,278	441	2/Hr	2/Hr
	Dilatación	3	252	548	0	91	91
	3pm April	164	4.59	10.00	0	75	87
115	223 Sala De	20	1,449	3,338	252	2/Hr	2/Hr
	Monitoreo Fetal	3	120	249	0	34	34
	10am April	61	5.90	12.27	0	36	40
Zone Peak Totals:		120	8,067	13,165	954		
Total Zones: 4		12	667	1,249	0	199	199
Unique Zones: 4		359	5.57	10.45	0	199	199



Air Handler #9 - Uma-n2-dil - Total Load Summary

Air Handler Description: Uma-n2-dil Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.95 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	8,067	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	965	Watts	199 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			9,032 Watts

Heating Supply Air: $8,067 / (1.000 \times 1.21 \times 10) =$	667	L/s
Winter Vent Outside Air (29.9% of supply) =	199	L/s

Zone space sensible gain:	12,931	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	154	Watts	
Reserve sensible gain:	3,829	Watts	
Total sensible gain on supply side of coil:			16,913 Watts

Cooling Supply Air: $16,913 / (1.000 \times 1.23 \times 11) =$	1,250	L/s
Summer Vent Outside Air (15.9% of supply) =	199	L/s

Return duct sensible gain:	154	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	1,716	Watts	199 L/s
Blow-thru fan sensible gain:	0	Watts	
Total sensible gain on return side of coil:			1,870 Watts
Total sensible gain on air handling system:			18,783 Watts

Zone space latent gain:	954	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	5,423	Watts	
Total latent gain on air handling system:			6,378 Watts
Total system sensible and latent gain:			25,161 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,250	L/s	
Total Air Handler Vent. Air (15.95% of Supply):	199	L/s	
Total Conditioned Air Space:	120	Sq.m	
Supply Air Per Unit Area:	10.4522	L/s/Sq.m	
Area Per Cooling Capacity:	4.7534	Sq.m/kW	16.7171 Sq.m/Ton
Cooling Capacity Per Area:	0.2104	kW/Sq.m	0.0598 Tons/Sq.m
Total Heating Required With Outside Air:	9.03	kW	
Total Cooling With Outside Air:	25.16	kW	7.15 Tons



Air Handler #10 - Dx - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
20	130 Almacen Medicamento 5pm January	12	1,220	2,577	47	2/Hr	2/Hr
		1	72	265	0	21	21
		37	5.86	21.56	0	24	21
22	132 Cuarto Técnico 7pm January	9	1,143	2,470	79	2/Hr	2/Hr
		1	67	254	0	16	16
		28	7.18	27.04	0	22	20
45	197 Sala De Telecom Iii 7pm January	13	1,192	2,656	84	2/Hr	2/Hr
		1	70	273	0	22	22
		39	5.46	21.19	0	23	22
65	1134 Cuarto Técnico 7pm December	7	141	1,805	84	2/Hr	2/Hr
		1	8	186	0	12	12
		22	1.13	25.11	0	3	15
68	1138 Sala De Telecom 7pm December	17	1,583	2,606	84	2/Hr	2/Hr
		1	93	268	0	28	28
		51	5.53	15.87	0	31	21
69	1139 Cuarto Técnico 7pm December	10	1,459	2,477	84	2/Hr	2/Hr
		1	86	255	0	17	17
		31	8.28	24.52	0	28	20
71	1142 Cto Técnico 7pm December	11	1,297	2,402	84	2/Hr	2/Hr
		1	77	247	0	18	18
		32	7.16	23.10	0	25	20
78	1157 Almacen De Medic. 7pm December	6	863	1,197	84	2/Hr	2/Hr
		1	51	123	0	10	10
		18	8.49	20.52	0	17	10
94	1186 Sala De Telecom 7pm December	12	794	2,190	102	2/Hr	2/Hr
		1	47	225	0	20	20
		36	3.87	18.62	0	15	18
95	1189 Almac De Medicam 3pm January	6	672	949	47	2/Hr	2/Hr
		1	40	98	0	10	10
		18	6.50	16.01	0	13	8
98	1213 Jefatura Soporte Técnico 2pm May	12	1,070	2,768	252	2/Hr	2/Hr
		3	63	285	0	21	21
		37	5.14	23.16	0	21	23
99	1214 Recepción 4pm January	16	1,356	3,423	102	2/Hr	2/Hr
		2	80	352	0	27	27
		49	4.94	21.75	0	26	28



Air Handler #10 - Dx - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
100	1231 Jefatura Y Secretaria 5pm January	15 6 46	941 56 3.66	4,015 413 27.19	504 0 0	2/Hr 25 18	2/Hr 25 33
101	1239 Recepció Y Despacho 4pm January	26 2 79	1,163 69 2.60	3,703 381 14.43	126 0 0	2/Hr 44 22	2/Hr 44 30
102	1240 Jefatura 2pm May	10 1 31	913 54 5.18	2,207 227 21.84	63 0 0	2/Hr 17 18	2/Hr 17 18
103	1244 Almacen De Medicamentos 3pm January	26 1 77	1,544 91 3.55	3,994 411 15.99	84 0 0	2/Hr 43 30	2/Hr 43 33
104	1250 Unidad De Salud Ambiental 4pm January	21 6 62	1,073 63 3.08	3,289 338 16.43	504 0 0	2/Hr 34 21	2/Hr 34 27
105	1251 Sala De Telecom 3pm January	12 1 37	1,172 69 5.67	2,961 305 24.98	102 0 0	2/Hr 20 23	2/Hr 20 24
106	1256 Jefatura 3pm May	12 3 37	965 57 4.67	1,829 188 15.43	189 0 0	2/Hr 20 19	2/Hr 20 15
119	229 Cuarto Técnico 3pm January	10 1 30	334 20 1.95	2,413 248 24.59	85 0 0	2/Hr 17 6	2/Hr 17 20
127	238 Cuarto Técnico 3pm January	10 1 31	1,135 67 6.57	2,809 289 28.34	86 0 0	2/Hr 17 22	2/Hr 17 23
155	192 Sala De Telecom 7pm December	12 1 36	1,406 83 6.91	2,485 256 21.31	101 0 0	2/Hr 20 27	2/Hr 20 20
176	2130 Sala De Telecom Iii 7pm December	17 1 51	1,605 95 5.61	2,617 269 15.93	84 0 0	2/Hr 28 31	2/Hr 28 21
177	2131 Cuarto Tecnico 7pm December	10 1 31	1,211 71 6.94	2,358 243 23.56	87 0 0	2/Hr 17 23	2/Hr 17 19



Air Handler #10 - Dx - Summary Loads (cont'd)

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
214	348 Cuarto Tecnico 3pm January	10	1,075	2,794	87	2/Hr	2/Hr
		1	63	288	0	17	17
		31	6.10	27.64	0	21	23
215	347 Sala De Telecom 3pm January	10	1,365	2,935	87	2/Hr	2/Hr
		1	81	302	0	17	17
		31	7.75	29.04	0	26	24
234	392 Sala De Telecomun Iii 3pm January	12	1,342	3,031	101	2/Hr	2/Hr
		1	79	312	0	20	20
		36	6.60	25.99	0	26	25
Zone Peak Totals:		348	30,035	70,959	3,423		
Total Zones: 27		44	1,773	7,303	0	580	580
Unique Zones: 27		1,043	5.10	21.00	0	580	580



Air Handler #10 - Dx - Total Load Summary

Air Handler Description: Dx Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.91 kW
 Fan Input: 80% motor and fan efficiency with 0.1 kPa across the fan
 Sensible Heat Ratio: 0.95 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 4pm in January.
 Outdoor Conditions: 30° DB, 24° WB, 16.50 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	30,035	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	2,104	Watts	580 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			32,138 Watts

Heating Supply Air: $30,035 / (1.000 \times 1.21 \times 14) =$	1,773	L/s
Winter Vent Outside Air (32.7% of supply) =	580	L/s

Zone space sensible gain:	69,469	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	898	Watts	
Reserve sensible gain:	1,485	Watts	
Total sensible gain on supply side of coil:			71,852 Watts

Cooling Supply Air: $71,852 / (1.000 \times 1.23 \times 8) =$	7,302	L/s
Summer Vent Outside Air (7.9% of supply) =	580	L/s

Return duct sensible gain:	898	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	7,128	Watts	580 L/s
Blow-thru fan sensible gain:	909	Watts	
Total sensible gain on return side of coil:			8,935 Watts
Total sensible gain on air handling system:			80,787 Watts

Zone space latent gain:	3,423	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	15,548	Watts	
Total latent gain on air handling system:			18,971 Watts
Total system sensible and latent gain:			99,758 Watts

Check Figures

Total Air Handler Supply Air (based on a 8° TD):	7,302	L/s	
Total Air Handler Vent. Air (7.94% of Supply):	580	L/s	
Total Conditioned Air Space:	348	Sq.m	
Supply Air Per Unit Area:	21.0010	L/s/Sq.m	
Area Per Cooling Capacity:	3.4854	Sq.m/kW	12.2577 Sq.m/Ton
Cooling Capacity Per Area:	0.2869	kW/Sq.m	0.0816 Tons/Sq.m
Total Heating Required With Outside Air:	32.14	kW	
Total Cooling With Outside Air:	99.76	kW	28.37 Tons



Air Handler #11 - Uma-n2-sp - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
109	204 Sala De Partos 3pm April	34 3 101	1,738 111 3.28	3,761 421 12.50	441 0 0	None 0 111	None 0 421
	Zone Peak Totals:	34	1,738	3,761	441		
	Total Zones: 1	3	111	421	0	0	0
	Unique Zones: 1	101	3.28	12.50	0	111	421



Air Handler #11 - Uma-n2-sp - Total Load Summary

Air Handler Description: Uma-n2-sp Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.32 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.93 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,738 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	535 Watts	111 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			2,273 Watts

Heating Supply Air: $1,738 / (1.000 \times 1.21 \times 13) =$	111 L/s
Winter Vent Outside Air (100.0% of supply) =	111 L/s

Zone space sensible gain:	3,761 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	52 Watts		
Reserve sensible gain:	1,891 Watts		
Total sensible gain on supply side of coil:			5,704 Watts

Cooling Supply Air: $5,704 / (1.000 \times 1.23 \times 11) =$	422 L/s
Summer Vent Outside Air (100.0% of supply) =	422 L/s

Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	3,630 Watts	422 L/s	
Blow-thru fan sensible gain:	315 Watts		
Total sensible gain on return side of coil:			3,945 Watts
Total sensible gain on air handling system:			9,649 Watts

Zone space latent gain:	441 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	11,471 Watts		
Total latent gain on air handling system:			11,912 Watts
Total system sensible and latent gain:			21,561 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	422 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	422 L/s	
Total Conditioned Air Space:	34 Sq.m	
Supply Air Per Unit Area:	12.5105 L/s/Sq.m	
Area Per Cooling Capacity:	1.5630 Sq.m/kW	5.4969 Sq.m/Ton
Cooling Capacity Per Area:	0.6398 kW/Sq.m	0.1819 Tons/Sq.m
Total Heating Required With Outside Air:	2.27 kW	
Total Cooling With Outside Air:	21.56 kW	6.13 Tons



Air Handler #12 - Uma-n2-so-gin - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
116	226 Sala De	40	2,229	5,979	1,176	None	None
	Operaciones De	8	142	499	0	0	0
	Ginecologia Y 3pm April	120	3.55	12.50	0	142	499
117	227 Filtro	9	330	818	84	None	None
	3pm April	1	21	61	0	0	0
		26	2.39	6.93	0	21	61
	Zone Peak Totals:	49	2,560	6,797	1,260		
	Total Zones: 2	9	163	560	0	0	0
	Unique Zones: 2	146	3.34	11.49	0	163	560



Air Handler #12 - Uma-n2-so-gin - Total Load Summary

Air Handler Description: Uma-n2-so-gin Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.42 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.86 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,560 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	788 Watts	163 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			3,347 Watts

Heating Supply Air: $2,560 / (1.000 \times 1.21 \times 13) =$	163 L/s
Winter Vent Outside Air (100.0% of supply) =	163 L/s

Zone space sensible gain:	6,797 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	69 Watts		
Reserve sensible gain:	712 Watts		
Total sensible gain on supply side of coil:			7,579 Watts

Cooling Supply Air: $7,579 / (1.000 \times 1.23 \times 11) =$	560 L/s
Summer Vent Outside Air (100.0% of supply) =	560 L/s

Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	4,823 Watts	560 L/s	
Blow-thru fan sensible gain:	419 Watts		
Total sensible gain on return side of coil:			5,242 Watts
Total sensible gain on air handling system:			12,820 Watts

Zone space latent gain:	1,260 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	15,241 Watts		
Total latent gain on air handling system:			16,501 Watts
Total system sensible and latent gain:			29,321 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	560 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	560 L/s	
Total Conditioned Air Space:	49 Sq.m	
Supply Air Per Unit Area:	11.5024 L/s/Sq.m	
Area Per Cooling Capacity:	1.6609 Sq.m/kW	5.8412 Sq.m/Ton
Cooling Capacity Per Area:	0.6021 kW/Sq.m	0.1712 Tons/Sq.m
Total Heating Required With Outside Air:	3.35 kW	
Total Cooling With Outside Air:	29.32 kW	8.34 Tons



Air Handler #13 - Uma-n2-legrado - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
118	228 Sala De Legrado 3pm April	24 8 72	1,750 111 4.62	4,905 366 15.18	1,176 0 0	None 0 111	None 0 366
	Zone Peak Totals:	24	1,750	4,905	1,176		
	Total Zones: 1	8	111	366	0	0	0
	Unique Zones: 1	72	4.62	15.18	0	111	366



Air Handler #13 - Uma-n2-legrado - Total Load Summary

Air Handler Description: Uma-n2-legrado Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.27 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.81 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,750 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	538 Watts	111 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			2,288 Watts

Heating Supply Air: $1,750 / (1.000 \times 1.21 \times 13) =$	111 L/s
Winter Vent Outside Air (100.0% of supply) =	111 L/s

Zone space sensible gain:	4,905 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	45 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			4,950 Watts

Cooling Supply Air: $4,950 / (1.000 \times 1.23 \times 11) =$	366 L/s
Summer Vent Outside Air (100.0% of supply) =	366 L/s

Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	3,151 Watts	366 L/s	
Blow-thru fan sensible gain:	273 Watts		
Total sensible gain on return side of coil:			3,424 Watts
Total sensible gain on air handling system:			8,374 Watts

Zone space latent gain:	1,176 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	9,956 Watts		
Total latent gain on air handling system:			11,132 Watts
Total system sensible and latent gain:			19,506 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	366 L/s	
Total Air Handler Vent. Air (100.00% of Supply):	366 L/s	
Total Conditioned Air Space:	24 Sq.m	
Supply Air Per Unit Area:	15.1836 L/s/Sq.m	
Area Per Cooling Capacity:	1.2355 Sq.m/kW	4.3450 Sq.m/Ton
Cooling Capacity Per Area:	0.8094 kW/Sq.m	0.2301 Tons/Sq.m
Total Heating Required With Outside Air:	2.29 kW	
Total Cooling With Outside Air:	19.51 kW	5.55 Tons



Air Handler #14 - Uma-n2-induc - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
121	233 Sala De Inducción Anestesia 3pm April	27	1,846	3,112	94	2/Hr	2/Hr
		2	153	232	0	45	45
		81	5.65	8.60	0	51	53
123	235 Almace De Medic 3pm April	6	837	1,131	84	2/Hr	2/Hr
		1	69	84	0	10	10
		18	11.34	13.83	0	23	19
124	236 Corredor Rigido 3pm April	105	5,956	9,345	630	2/Hr	2/Hr
		8	492	697	0	176	176
		316	4.67	6.61	0	163	159
125	236.1 Almacen De Insumos 3pm April	9	308	802	84	2/Hr	2/Hr
		1	25	60	0	15	15
		26	2.93	6.88	0	8	14
Zone Peak Totals:		147	8,948	14,389	893		
Total Zones: 4		12	739	1,073	0	245	245
Unique Zones: 4		442	5.02	7.29	0	245	245



Air Handler #14 - Uma-n2-induc - Total Load Summary

Air Handler Description: Uma-n2-induc Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.94 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	8,948	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	1,187	Watts	245 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			10,135 Watts

Heating Supply Air: $8,948 / (1.000 \times 1.21 \times 10) =$	739	L/s
Winter Vent Outside Air (33.2% of supply) =	245	L/s

Zone space sensible gain:	14,389	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	132	Watts	
Reserve sensible gain:	0	Watts	
Total sensible gain on supply side of coil:			14,521 Watts

Cooling Supply Air: $14,521 / (1.000 \times 1.23 \times 11) =$	1,073	L/s
Summer Vent Outside Air (22.9% of supply) =	245	L/s

Return duct sensible gain:	132	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	2,112	Watts	245 L/s
Blow-thru fan sensible gain:	0	Watts	
Total sensible gain on return side of coil:			2,244 Watts
Total sensible gain on air handling system:			16,765 Watts

Zone space latent gain:	893	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	6,675	Watts	
Total latent gain on air handling system:			7,567 Watts
Total system sensible and latent gain:			24,333 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,073	L/s	
Total Air Handler Vent. Air (22.86% of Supply):	245	L/s	
Total Conditioned Air Space:	147	Sq.m	
Supply Air Per Unit Area:	7.2913	L/s/Sq.m	
Area Per Cooling Capacity:	6.0494	Sq.m/kW	21.2750 Sq.m/Ton
Cooling Capacity Per Area:	0.1653	kW/Sq.m	0.0470 Tons/Sq.m
Total Heating Required With Outside Air:	10.14	kW	
Total Cooling With Outside Air:	24.33	kW	6.92 Tons



Air Handler #15 - Uma-n2-so-cirugía - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
120	231 Filtro 3pm April	5 0 14	692 44 9.78	719 54 11.91	38 0 0	None 0 44	None 0 54
122	234 Sala De Operaciones General 7pm December	40 8 120	1,833 117 2.91	4,084 501 12.50	1,176 0 0	None 0 117	None 0 501
	Zone Peak Totals:	45	2,525	4,803	1,214		
	Total Zones: 2	8	161	555	0	0	0
	Unique Zones: 2	134	3.60	12.44	0	161	555



Air Handler #15 - Uma-n2-so-cirurgía - Total Load Summary

Air Handler Description: Uma-n2-so-cirurgía Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.42 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.86 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,525	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	777	Watts	161 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			3,302 Watts

Heating Supply Air: $2,525 / (1.000 \times 1.21 \times 13) =$	161	L/s
Winter Vent Outside Air (100.0% of supply) =	161	L/s

Zone space sensible gain:	4,803	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	68	Watts	
Reserve sensible gain:	2,642	Watts	
Total sensible gain on supply side of coil:			7,514 Watts

Cooling Supply Air: $7,514 / (1.000 \times 1.23 \times 11) =$	555	L/s
Summer Vent Outside Air (100.0% of supply) =	555	L/s

Return duct sensible gain:	0	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	4,782	Watts	555 L/s
Blow-thru fan sensible gain:	415	Watts	
Total sensible gain on return side of coil:			5,197 Watts
Total sensible gain on air handling system:			12,710 Watts

Zone space latent gain:	1,214	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	15,110	Watts	
Total latent gain on air handling system:			16,324 Watts
Total system sensible and latent gain:			29,034 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	555	L/s	
Total Air Handler Vent. Air (100.00% of Supply):	555	L/s	
Total Conditioned Air Space:	45	Sq.m	
Supply Air Per Unit Area:	12.4520	L/s/Sq.m	
Area Per Cooling Capacity:	1.5361	Sq.m/kW	5.4023 Sq.m/Ton
Cooling Capacity Per Area:	0.6510	kW/Sq.m	0.1851 Tons/Sq.m
Total Heating Required With Outside Air:	3.30	kW	
Total Cooling With Outside Air:	29.03	kW	8.26 Tons



Air Handler #16 - Uma-n2-so-est - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
133	253 Preparación Y Empaque 3pm April	29 4 88	1,938 123 4.19	4,376 326 11.10	189 0 0	None 0 123	None 0 326
135	255 Descontaminación Y Desinfección 3pm April	30 4 89	2,231 142 4.78	4,534 338 11.39	189 0 0	None 0 142	None 0 338
136	256 Esterilización 3pm April	31 4 92	1,990 126 4.11	4,475 334 10.84	189 0 0	None 0 126	None 0 334
137	257 Almacen De Material Esteril 3pm April	40 1 120	2,751 175 4.36	5,120 382 9.52	47 0 0	None 0 175	None 0 382
138	258 Esclusa 3pm April	6 1 18	828 53 8.92	895 67 11.31	47 0 0	None 0 53	None 0 67
139	260 Entrega De Material Esteril 3pm April	7 1 21	893 57 7.99	1,200 90 12.61	47 0 0	None 0 57	None 0 90
	Zone Peak Totals:	143	10,630	20,601	709		
	Total Zones: 6	15	676	1,537	0	0	0
	Unique Zones: 6	429	4.73	10.75	0	676	1,537



Air Handler #16 - Uma-n2-so-est - Total Load Summary

Air Handler Description: Uma-n2-so-est Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 1.15 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.97 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	10,630	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	3,271	Watts	676 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			13,901 Watts

Heating Supply Air: $10,630 / (1.000 \times 1.21 \times 13) =$	676	L/s
Winter Vent Outside Air (100.0% of supply) =	676	L/s

Zone space sensible gain:	20,601	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	189	Watts	
Reserve sensible gain:	0	Watts	
Total sensible gain on supply side of coil:			20,790 Watts

Cooling Supply Air: $20,790 / (1.000 \times 1.23 \times 11) =$	1,537	L/s
Summer Vent Outside Air (100.0% of supply) =	1,537	L/s

Return duct sensible gain:	0	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	13,230	Watts	1,537 L/s
Blow-thru fan sensible gain:	1,148	Watts	
Total sensible gain on return side of coil:			14,378 Watts
Total sensible gain on air handling system:			35,168 Watts

Zone space latent gain:	709	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	41,808	Watts	
Total latent gain on air handling system:			42,517 Watts
Total system sensible and latent gain:			77,685 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,537	L/s	
Total Air Handler Vent. Air (100.00% of Supply):	1,537	L/s	
Total Conditioned Air Space:	143	Sq.m	
Supply Air Per Unit Area:	10.7455	L/s/Sq.m	
Area Per Cooling Capacity:	1.8408	Sq.m/kW	6.4737 Sq.m/Ton
Cooling Capacity Per Area:	0.5432	kW/Sq.m	0.1545 Tons/Sq.m
Total Heating Required With Outside Air:	13.90	kW	
Total Cooling With Outside Air:	77.68	kW	22.09 Tons



Air Handler #17 - Uma-n2-lab. Inmunohemt. - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
159	1104 Recepc Uuss Y Hemoc 7pm December	11 1 32	1,236 79 7.28	1,423 106 9.83	63 0 0	None 0 79	None 0 106
163	2110 Laboratorio Inmunohemta 7pm December	23 4 68	1,922 122 5.38	2,768 227 10.00	588 0 0	None 0 122	None 0 227
164	2111 Esterilización Y Productos Biologic 7pm December	12 1 37	1,394 89 7.27	1,305 122 10.00	63 0 0	None 0 89	None 0 122
165	2112 Control De Calidad 7pm December	12 1 37	1,394 89 7.27	1,200 122 10.00	63 0 0	None 0 89	None 0 122
166	2114 Almacen Unidades De Sangre 7pm December	24 1 72	1,994 127 5.28	2,345 175 7.29	47 0 0	None 0 127	None 0 175
	Zone Peak Totals:	82	7,941	9,041	824		
	Total Zones: 5	8	505	752	0	0	0
	Unique Zones: 5	246	6.16	9.18	0	505	752



Air Handler #17 - Uma-n2-lab. Inmunohemt. - Total Load Summary

Air Handler Description: Uma-n2-lab. Inmunohemt. Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.56 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.93 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 5pm in April.
 Outdoor Conditions: 29° DB, 25° WB, 17.72 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in December at 7pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 9,041.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	7,941 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	2,443 Watts	505 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			10,384 Watts
Heating Supply Air: $7,941 / (1.000 \times 1.21 \times 13) =$		505 L/s	
Winter Vent Outside Air (100.0% of supply) =		505 L/s	
Zone space sensible gain:	9,041 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	93 Watts		
Reserve sensible gain:	1,049 Watts		
Total sensible gain on supply side of coil:			10,183 Watts
Cooling Supply Air: $10,183 / (1.000 \times 1.23 \times 11) =$		753 L/s	
Summer Vent Outside Air (100.0% of supply) =		753 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	5,554 Watts	753 L/s	
Blow-thru fan sensible gain:	562 Watts		
Total sensible gain on return side of coil:			6,117 Watts
Total sensible gain on air handling system:			16,299 Watts
Zone space latent gain:	824 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	21,419 Watts		
Total latent gain on air handling system:			22,243 Watts
Total system sensible and latent gain:			38,542 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	753 L/s		
Total Air Handler Vent. Air (100.00% of Supply):	753 L/s		
Total Conditioned Air Space:	82 Sq.m		
Supply Air Per Unit Area:	9.1897 L/s/Sq.m		
Area Per Cooling Capacity:	2.1249 Sq.m/kW	7.4731 Sq.m/Ton	
Cooling Capacity Per Area:	0.4706 kW/Sq.m	0.1338 Tons/Sq.m	
Total Heating Required With Outside Air:	10.38 kW		
Total Cooling With Outside Air:	38.54 kW	10.96 Tons	



Air Handler #18 - N2 Unidad Precisión - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
172	2123 Centro De Datos 7pm December	39 1 116	2,778 230 5.96	22,834 2,350 61.04	63 0 0	2/Hr 64 64	2/Hr 64 64
	Zone Peak Totals:	39	2,778	22,834	63		
	Total Zones: 1	1	230	2,350	0	64	64
	Unique Zones: 1	116	5.96	61.04	0	64	64



Air Handler #18 - N2 Unidad Precisión - Total Load Summary

Air Handler Description: N2 Unidad Precisión Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 1.00 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 6pm in January.
 Outdoor Conditions: 28° DB, 24° WB, 16.48 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in December at 7pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 22,834.

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,778 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	311 Watts	64 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			3,089 Watts

Heating Supply Air: $2,778 / (1.000 \times 1.21 \times 10) =$	230 L/s
Winter Vent Outside Air (27.9% of supply) =	64 L/s

Zone space sensible gain:	22,834 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	289 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			23,123 Watts

Cooling Supply Air: $23,123 / (1.000 \times 1.23 \times 8) =$	2,350 L/s
Summer Vent Outside Air (2.7% of supply) =	64 L/s

Return duct sensible gain:	289 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	631 Watts	64 L/s	
Blow-thru fan sensible gain:	0 Watts		
Total sensible gain on return side of coil:			920 Watts
Total sensible gain on air handling system:			24,043 Watts

Zone space latent gain:	63 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	1,882 Watts		
Total latent gain on air handling system:			1,945 Watts
Total system sensible and latent gain:			25,988 Watts

Check Figures

Total Air Handler Supply Air (based on a 8° TD):	2,350 L/s	
Total Air Handler Vent. Air (2.73% of Supply):	64 L/s	
Total Conditioned Air Space:	39 Sq.m	
Supply Air Per Unit Area:	61.0364 L/s/Sq.m	
Area Per Cooling Capacity:	1.4815 Sq.m/kW	5.2101 Sq.m/Ton
Cooling Capacity Per Area:	0.6750 kW/Sq.m	0.1919 Tons/Sq.m
Total Heating Required With Outside Air:	3.09 kW	
Total Cooling With Outside Air:	25.99 kW	7.39 Tons



Air Handler #19 - Uma-n3-hosp - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
225	372 Sala Hosp Pediatria Pre Escolar 3pm January	25 2 75	2,028 168 6.73	3,541 264 10.61	168 0 0	2/Hr 42 46	2/Hr 42 44
226	374 Sala Hosp Pediatria Adolesc 3pm January	27 2 80	2,046 169 6.31	3,645 272 10.15	168 0 0	2/Hr 45 46	2/Hr 45 45
227	376 Sala Hosp Obstetricia 3pm January	25 2 75	2,028 168 6.73	3,541 264 10.61	168 0 0	2/Hr 42 46	2/Hr 42 44
228	378 Sala Hosp Obstetricia 3pm January	26 2 77	2,013 166 6.47	3,574 267 10.37	168 0 0	2/Hr 43 45	2/Hr 43 44
229	380 Sala De Monitoreo De Gestante 3pm January	37 2 110	2,131 176 4.81	4,359 325 8.88	168 0 0	2/Hr 61 48	2/Hr 61 54
	Zone Peak Totals:	139	10,246	18,660	840		
	Total Zones: 5	10	847	1,392	0	232	232
	Unique Zones: 5	417	6.10	10.02	0	232	231



Air Handler #19 - Uma-n3-hosp - Total Load Summary

Air Handler Description: Uma-n3-hosp Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.96 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in January.
 Outdoor Conditions: 30° DB, 24° WB, 16.39 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	10,246	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	1,120	Watts	232 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			11,367 Watts

Heating Supply Air: $10,246 / (1.000 \times 1.21 \times 10) =$	847	L/s
Winter Vent Outside Air (27.3% of supply) =	232	L/s

Zone space sensible gain:	18,660	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	171	Watts	
Reserve sensible gain:	0	Watts	
Total sensible gain on supply side of coil:			18,831 Watts

Cooling Supply Air: $18,831 / (1.000 \times 1.23 \times 11) =$	1,392	L/s
Summer Vent Outside Air (16.6% of supply) =	232	L/s

Return duct sensible gain:	171	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	1,993	Watts	232 L/s
Blow-thru fan sensible gain:	0	Watts	
Total sensible gain on return side of coil:			2,164 Watts
Total sensible gain on air handling system:			20,995 Watts

Zone space latent gain:	840	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	5,191	Watts	
Total latent gain on air handling system:			6,031 Watts
Total system sensible and latent gain:			27,026 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,392	L/s	
Total Air Handler Vent. Air (16.63% of Supply):	232	L/s	
Total Conditioned Air Space:	139	Sq.m	
Supply Air Per Unit Area:	10.0203	L/s/Sq.m	
Area Per Cooling Capacity:	5.1395	Sq.m/kW	18.0748 Sq.m/Ton
Cooling Capacity Per Area:	0.1946	kW/Sq.m	0.0553 Tons/Sq.m
Total Heating Required With Outside Air:	11.37	kW	
Total Cooling With Outside Air:	27.03	kW	7.68 Tons



Air Handler #20 - Uma-n3-aisl.pediat - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
223	365 Esclusa 3pm April	5 1 16	745 47 9.10	828 62 11.87	84 0 0	None 0 47	None 0 62
224	366 Sala Hosp Pediatria Aislado 2pm May	15 1 46	1,249 79 5.16	2,839 212 13.75	84 0 0	None 0 79	None 0 212
Zone Peak Totals:		21	1,993	3,666	168		
Total Zones: 2		2	127	273	0	0	0
Unique Zones: 2		62	6.15	13.27	0	127	273



Air Handler #20 - Uma-n3-aisl.pediat - Total Load Summary

Air Handler Description: Uma-n3-aisl.pediat Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.20 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.96 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in May at 2pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 3,655.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	1,993 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	613 Watts	127 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			2,607 Watts
Heating Supply Air: $1,993 / (1.000 \times 1.21 \times 13) =$		127 L/s	
Winter Vent Outside Air (100.0% of supply) =		127 L/s	
Zone space sensible gain:	3,561 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	34 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			3,594 Watts
Cooling Supply Air: $3,688 / (1.000 \times 1.23 \times 11) =$		273 L/s	
Summer Vent Outside Air (100.0% of supply) =		273 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	2,347 Watts	273 L/s	
Blow-thru fan sensible gain:	204 Watts		
Total sensible gain on return side of coil:			2,551 Watts
Total sensible gain on air handling system:			6,145 Watts
Zone space latent gain:	168 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	7,417 Watts		
Total latent gain on air handling system:			7,585 Watts
Total system sensible and latent gain:			13,731 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	273 L/s		
Total Air Handler Vent. Air (100.00% of Supply):	273 L/s		
Total Conditioned Air Space:	21 Sq.m		
Supply Air Per Unit Area:	13.2340 L/s/Sq.m		
Area Per Cooling Capacity:	1.5003 Sq.m/kW	5.2764 Sq.m/Ton	
Cooling Capacity Per Area:	0.6665 kW/Sq.m	0.1895 Tons/Sq.m	
Total Heating Required With Outside Air:	2.61 kW		
Total Cooling With Outside Air:	13.73 kW	3.90 Tons	



Air Handler #21 - Uma-n3-aisl.adulto - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
236	395 Esclusa 3pm April	8 1 24	1,080 69 8.58	1,123 84 10.47	67 0 0	None 0 69	None 0 84
238	3102 Sala Hosp Adultos Aislado 2pm May	20 1 61	1,592 101 5.01	3,507 262 12.95	84 0 0	None 0 101	None 0 262
	Zone Peak Totals:	28	2,672	4,630	151		
	Total Zones: 2	2	170	345	0	0	0
	Unique Zones: 2	85	6.02	12.25	0	170	345



Air Handler #21 - Uma-n3-aisl.adulto - Total Load Summary

Air Handler Description: Uma-n3-aisl.adulto Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.26 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.97 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 2pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in May at 2pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 4,612.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,672 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	822 Watts	170 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			3,494 Watts
Heating Supply Air: $2,672 / (1.000 \times 1.21 \times 13) =$		170 L/s	
Winter Vent Outside Air (100.0% of supply) =		170 L/s	
Zone space sensible gain:	4,497 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	42 Watts		
Reserve sensible gain:	12 Watts		
Total sensible gain on supply side of coil:			4,551 Watts
Cooling Supply Air: $4,666 / (1.000 \times 1.23 \times 11) =$		345 L/s	
Summer Vent Outside Air (100.0% of supply) =		345 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	2,969 Watts	345 L/s	
Blow-thru fan sensible gain:	258 Watts		
Total sensible gain on return side of coil:			3,227 Watts
Total sensible gain on air handling system:			7,778 Watts
Zone space latent gain:	151 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	9,384 Watts		
Total latent gain on air handling system:			9,535 Watts
Total system sensible and latent gain:			17,313 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	345 L/s		
Total Air Handler Vent. Air (100.00% of Supply):	345 L/s		
Total Conditioned Air Space:	28 Sq.m		
Supply Air Per Unit Area:	12.2300 L/s/Sq.m		
Area Per Cooling Capacity:	1.6288 Sq.m/kW	5.7283 Sq.m/Ton	
Cooling Capacity Per Area:	0.6139 kW/Sq.m	0.1746 Tons/Sq.m	
Total Heating Required With Outside Air:	3.49 kW		
Total Cooling With Outside Air:	17.31 kW	4.92 Tons	



Air Handler #22 - Uma-n3-aisl.obst - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
239	3104 Sala Hosp Obstetricia Aisl 4pm January	20	1,598	3,926	168	None	None
		2	102	293	0	0	0
		61	4.98	14.35	0	102	293
240	3105 Esclusa 3pm April	8	1,047	1,254	67	None	None
		1	67	94	0	0	0
		24	8.32	11.69	0	67	94
	Zone Peak Totals:	28	2,645	5,180	235		
	Total Zones: 2	3	168	386	0	0	0
	Unique Zones: 2	85	5.92	13.60	0	168	386



Air Handler #22 - Uma-n3-aisl.obst - Total Load Summary

Air Handler Description: Uma-n3-aisl.obst Constant Volume - Sum of Peaks
 Supply Air Fan: Blow-Thru with program estimated horsepower of 0.29 kW
 Fan Input: 80% motor and fan efficiency with 0.6 kPa across the fan
 Sensible Heat Ratio: 0.96 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 4pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in January at 4pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 5,139.

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Zone Space sensible loss:	2,645 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	814 Watts	168 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			3,458 Watts
Heating Supply Air: $2,645 / (1.000 \times 1.21 \times 13) =$		168 L/s	
Winter Vent Outside Air (100.0% of supply) =		168 L/s	
Zone space sensible gain:	4,873 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	47 Watts		
Reserve sensible gain:	27 Watts		
Total sensible gain on supply side of coil:			4,948 Watts
Cooling Supply Air: $5,213 / (1.000 \times 1.23 \times 11) =$		385 L/s	
Summer Vent Outside Air (100.0% of supply) =		385 L/s	
Return duct sensible gain:	0 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	3,318 Watts	385 L/s	
Blow-thru fan sensible gain:	288 Watts		
Total sensible gain on return side of coil:			3,606 Watts
Total sensible gain on air handling system:			8,554 Watts
Zone space latent gain:	235 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	10,485 Watts		
Total latent gain on air handling system:			10,720 Watts
Total system sensible and latent gain:			19,274 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	385 L/s		
Total Air Handler Vent. Air (100.00% of Supply):	385 L/s		
Total Conditioned Air Space:	28 Sq.m		
Supply Air Per Unit Area:	13.5694 L/s/Sq.m		
Area Per Cooling Capacity:	1.4735 Sq.m/kW	5.1820 Sq.m/Ton	
Cooling Capacity Per Area:	0.6787 kW/Sq.m	0.1930 Tons/Sq.m	
Total Heating Required With Outside Air:	3.46 kW		
Total Cooling With Outside Air:	19.27 kW	5.48 Tons	



Air Handler #24 - Uma-n2-recup - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
126	237 Sala De Recuperación Post	103	4,358	9,716	284	2/Hr	2/Hr
	Anestesia	6	360	725	0	172	172
	3pm April	309	3.50	7.04	0	172	171
Zone Peak Totals:		103	4,358	9,716	284		
Total Zones: 1		6	360	725	0	172	172
Unique Zones: 1		309	3.50	7.04	0	172	171



Air Handler #24 - Uma-n2-recup - Total Load Summary

Air Handler Description: Uma-n2-recup Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.97 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	4,358 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	830 Watts	172 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			5,188 Watts

Heating Supply Air: $4,358 / (1.000 \times 1.21 \times 10) =$	360 L/s
Winter Vent Outside Air (47.6% of supply) =	172 L/s

Zone space sensible gain:	9,716 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	89 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			9,805 Watts

Cooling Supply Air: $9,805 / (1.000 \times 1.23 \times 11) =$	725 L/s
Summer Vent Outside Air (23.7% of supply) =	172 L/s

Return duct sensible gain:	89 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	1,477 Watts	172 L/s	
Blow-thru fan sensible gain:	0 Watts		
Total sensible gain on return side of coil:			1,566 Watts
Total sensible gain on air handling system:			11,371 Watts

Zone space latent gain:	284 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	4,666 Watts		
Total latent gain on air handling system:			4,950 Watts
Total system sensible and latent gain:			16,321 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	725 L/s	
Total Air Handler Vent. Air (23.66% of Supply):	172 L/s	
Total Conditioned Air Space:	103 Sq.m	
Supply Air Per Unit Area:	7.0433 L/s/Sq.m	
Area Per Cooling Capacity:	6.3048 Sq.m/kW	22.1732 Sq.m/Ton
Cooling Capacity Per Area:	0.1586 kW/Sq.m	0.0451 Tons/Sq.m
Total Heating Required With Outside Air:	5.19 kW	
Total Cooling With Outside Air:	16.32 kW	4.64 Tons



Air Handler #25 - Uma-n3-hosp.adult - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
200	316 Sala Hosp Adultos Varones 2pm May	23	1,649	3,845	252	2/Hr	2/Hr
		3	136	287	0	38	38
		68	5.98	12.58	0	36	41
205	331 Sala Hospit Adulto Mujeres 2pm April	25	1,858	3,374	168	2/Hr	2/Hr
		2	154	252	0	41	41
		74	6.19	10.15	0	41	36
206	333 Sala Hospit Adulto Mujeres 2pm April	25	1,858	3,374	168	2/Hr	2/Hr
		2	154	252	0	41	41
		74	6.19	10.15	0	41	36
207	334 Sala Hospit Adulto Mujeres 2pm April	25	1,858	3,374	168	2/Hr	2/Hr
		2	154	252	0	41	41
		74	6.19	10.15	0	41	36
232	387 Sala Hosp Adultos Varones 2pm May	20	1,591	3,586	169	2/Hr	2/Hr
		2	132	267	0	34	34
		60	6.54	13.31	0	35	38
233	388 Sala Hosp Adultos Varones 2pm May	20	1,591	3,586	169	2/Hr	2/Hr
		2	132	267	0	34	34
		60	6.54	13.31	0	35	38
235	393 Sala Hosp Adultos Varones 2pm May	20	1,591	3,586	169	2/Hr	2/Hr
		2	132	267	0	34	34
		60	6.54	13.31	0	35	38
Zone Peak Totals:		158	11,997	24,726	1,263		
Total Zones: 7		15	992	1,844	0	263	263
Unique Zones: 7		472	6.30	11.71	0	263	263



Air Handler #25 - Uma-n3-hosp.adult - Total Load Summary

Air Handler Description: Uma-n3-hosp.adult Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.95 --- This system occurs 1 time(s) in the building. ---
 Air System Peak Time: 2pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.46 grains

Because of the diversity in zone, plenum and ventilation loads, the zone sensible peak time in May at 2pm is different from the total system peak time, hence the air system L/s was computed using a zone sensible load of 24,476.

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	11,997	Watts	
Infiltration sensible loss:	0	Watts	0 L/s
Outside Air sensible loss:	1,271	Watts	263 L/s
Supply Duct sensible loss:	0	Watts	
Return Duct sensible loss:	0	Watts	
Return Plenum sensible loss:	0	Watts	
Total System sensible loss:			13,268 Watts

Heating Supply Air: $11,997 / (1.000 \times 1.21 \times 10) =$	992	L/s
Winter Vent Outside Air (26.5% of supply) =	263	L/s

Zone space sensible gain:	24,199	Watts	
Infiltration sensible gain:	0	Watts	
Draw-thru fan sensible gain:	0	Watts	
Supply duct sensible gain:	227	Watts	
Reserve sensible gain:	242	Watts	
Total sensible gain on supply side of coil:			24,667 Watts

Cooling Supply Air: $24,944 / (1.000 \times 1.23 \times 11) =$	1,844	L/s
Summer Vent Outside Air (14.2% of supply) =	263	L/s

Return duct sensible gain:	227	Watts	
Return plenum sensible gain:	0	Watts	
Outside air sensible gain:	2,260	Watts	263 L/s
Blow-thru fan sensible gain:	0	Watts	
Total sensible gain on return side of coil:			2,487 Watts
Total sensible gain on air handling system:			27,154 Watts

Zone space latent gain:	1,263	Watts	
Infiltration latent gain:	0	Watts	
Outside air latent gain:	7,142	Watts	
Total latent gain on air handling system:			8,405 Watts
Total system sensible and latent gain:			35,559 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,844	L/s	
Total Air Handler Vent. Air (14.24% of Supply):	263	L/s	
Total Conditioned Air Space:	158	Sq.m	
Supply Air Per Unit Area:	11.7056	L/s/Sq.m	
Area Per Cooling Capacity:	4.4293	Sq.m/kW	15.5772 Sq.m/Ton
Cooling Capacity Per Area:	0.2258	kW/Sq.m	0.0642 Tons/Sq.m
Total Heating Required With Outside Air:	13.27	kW	
Total Cooling With Outside Air:	35.56	kW	10.11 Tons



Air Handler #26 - Uma-n3-hosp.obst - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
237	399 Sala De Ginecologia 4pm January	19	1,558	3,831	168	2/Hr	2/Hr
		2	129	286	0	32	32
		57	6.78	15.04	0	32	33
241	3108 Sala Hosp Ginecologia 4pm January	19	1,558	3,831	168	2/Hr	2/Hr
		2	129	286	0	32	32
		57	6.78	15.04	0	32	33
242	3109 Sala Hosp Cesareas 4pm January	20	1,592	3,911	168	2/Hr	2/Hr
		2	132	292	0	34	34
		61	6.51	14.44	0	33	33
243	3112 Sala Hosp Cesareas 4pm January	20	1,592	3,911	168	2/Hr	2/Hr
		2	132	292	0	34	34
		61	6.51	14.44	0	33	33
244	3115 Sala Hosp Cesareas 4pm January	20	1,592	3,911	168	2/Hr	2/Hr
		2	132	292	0	34	34
		61	6.51	14.44	0	33	33
245	3116 Sala Hosp Cesareas 4pm January	20	1,592	3,911	168	2/Hr	2/Hr
		2	132	292	0	34	34
		61	6.51	14.44	0	33	33
246	3120 Sala Hosp Obstetricia 4pm January	20	1,647	3,948	168	2/Hr	2/Hr
		2	136	294	0	34	34
		61	6.74	14.58	0	34	34
Zone Peak Totals:		139	11,132	27,255	1,176		
Total Zones: 7		14	920	2,033	0	232	232
Unique Zones: 7		417	6.62	14.63	0	232	232



Air Handler #26 - Uma-n3-hosp.obst - Total Load Summary

Air Handler Description: Uma-n3-hosp.obst Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.96 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 4pm in January.
 Outdoor Conditions: 30° DB, 24° WB, 16.50 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	11,132 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	1,121 Watts	232 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			12,253 Watts

Heating Supply Air: $11,132 / (1.000 \times 1.21 \times 10) =$	920 L/s
Winter Vent Outside Air (25.2% of supply) =	232 L/s

Zone space sensible gain:	27,255 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	250 Watts		
Reserve sensible gain:	0 Watts		
Total sensible gain on supply side of coil:			27,505 Watts

Cooling Supply Air: $27,505 / (1.000 \times 1.23 \times 11) =$	2,033 L/s
Summer Vent Outside Air (11.4% of supply) =	232 L/s

Return duct sensible gain:	250 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	1,995 Watts	232 L/s	
Blow-thru fan sensible gain:	0 Watts		
Total sensible gain on return side of coil:			2,245 Watts
Total sensible gain on air handling system:			29,750 Watts

Zone space latent gain:	1,176 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	5,195 Watts		
Total latent gain on air handling system:			6,371 Watts
Total system sensible and latent gain:			36,121 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	2,033 L/s	
Total Air Handler Vent. Air (11.40% of Supply):	232 L/s	
Total Conditioned Air Space:	139 Sq.m	
Supply Air Per Unit Area:	14.6254 L/s/Sq.m	
Area Per Cooling Capacity:	3.8482 Sq.m/kW	13.5336 Sq.m/Ton
Cooling Capacity Per Area:	0.2599 kW/Sq.m	0.0739 Tons/Sq.m
Total Heating Required With Outside Air:	12.25 kW	
Total Cooling With Outside Air:	36.12 kW	10.27 Tons



Air Handler #27 - Uma-n3-hosp.ped - Summary Loads

Zn No	Description Peak Time	Area People Volume	Htg.Loss Htg.L/s L/s/Sqm	Sen.Gain Clg.L/s L/s/Sqm	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.L/s Act.L/s	Clg.O.A. Req.L/s Act.L/s
212	345 Sala Hosptt Pediatria Escolar 2pm April	25	1,845	3,352	168	2/Hr	2/Hr
		2	152	250	0	41	41
		74	6.20	10.16	0	39	33
213	347 Sala Hosptt Pediatria Escolar 2pm April	25	1,845	3,352	168	2/Hr	2/Hr
		2	152	250	0	41	41
		74	6.20	10.16	0	39	33
217	353 Atención Al Recien Nacido Sano 3pm January	13	1,120	2,479	94	2/Hr	2/Hr
		2	93	185	0	22	22
		39	7.12	14.22	0	24	25
218	354 Atención Recién Nacido Patologico 3pm January	16	1,333	2,954	142	2/Hr	2/Hr
		3	110	220	0	27	27
		49	6.76	13.52	0	28	29
221	359 Sala Hosp Pediatria Lactante 2pm May	13	1,172	2,840	252	2/Hr	2/Hr
		3	97	212	0	22	22
		40	7.34	16.05	0	25	28
222	361 Sala Hosp Pediatria Adolesc 2pm May	15	1,193	2,962	252	2/Hr	2/Hr
		3	99	221	0	26	26
		46	6.40	14.35	0	25	29
	Zone Peak Totals:	107	8,509	17,938	1,076		
	Total Zones: 6	15	703	1,338	0	179	179
	Unique Zones: 6	321	6.57	12.49	0	179	179



Air Handler #27 - Uma-n3-hosp.ped - Total Load Summary

Air Handler Description: Uma-n3-hosp.ped Constant Volume - Sum of Peaks
 Sensible Heat Ratio: 0.94 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in April.
 Outdoor Conditions: 30° DB, 25° WB, 17.34 grains

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Zone Space sensible loss:	8,509 Watts		
Infiltration sensible loss:	0 Watts	0 L/s	
Outside Air sensible loss:	864 Watts	179 L/s	
Supply Duct sensible loss:	0 Watts		
Return Duct sensible loss:	0 Watts		
Return Plenum sensible loss:	0 Watts		
Total System sensible loss:			9,373 Watts

Heating Supply Air: $8,509 / (1.000 \times 1.21 \times 10) =$	703 L/s
Winter Vent Outside Air (25.4% of supply) =	179 L/s

Zone space sensible gain:	16,979 Watts		
Infiltration sensible gain:	0 Watts		
Draw-thru fan sensible gain:	0 Watts		
Supply duct sensible gain:	164 Watts		
Reserve sensible gain:	947 Watts		
Total sensible gain on supply side of coil:			18,091 Watts

Cooling Supply Air: $18,091 / (1.000 \times 1.23 \times 11) =$	1,337 L/s
Summer Vent Outside Air (13.3% of supply) =	179 L/s

Return duct sensible gain:	164 Watts		
Return plenum sensible gain:	0 Watts		
Outside air sensible gain:	1,537 Watts	179 L/s	
Blow-thru fan sensible gain:	0 Watts		
Total sensible gain on return side of coil:			1,701 Watts
Total sensible gain on air handling system:			19,792 Watts

Zone space latent gain:	1,076 Watts		
Infiltration latent gain:	0 Watts		
Outside air latent gain:	4,857 Watts		
Total latent gain on air handling system:			5,933 Watts
Total system sensible and latent gain:			25,725 Watts

Check Figures

Total Air Handler Supply Air (based on a 11° TD):	1,337 L/s	
Total Air Handler Vent. Air (13.35% of Supply):	179 L/s	
Total Conditioned Air Space:	107 Sq.m	
Supply Air Per Unit Area:	12.4848 L/s/Sq.m	
Area Per Cooling Capacity:	4.1633 Sq.m/kW	14.6417 Sq.m/Ton
Cooling Capacity Per Area:	0.2402 kW/Sq.m	0.0683 Tons/Sq.m
Total Heating Required With Outside Air:	9.37 kW	
Total Cooling With Outside Air:	25.72 kW	7.31 Tons



Zone Detailed Loads (At Zone Peak Times)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 1-101 Entrevista Familiar peaks (sensible) in May at 8am, Air Handler 1 (Fc), Group 0, 1.0 x 9.2, Construction Type: 1 (Light)

Wall-2-ENE-B-M	8	0.83	5.0	2.000	77		6.000	47
Wall-3-NNW-B-M	14	0.83	7.8	2.000	211		6.000	82
Partition-1-1	18.4		4/8	2.360	174		18.880	347
Partition-4-2	45.6		4/8	2.210	403		17.680	806
Gls-ENE-1-90-Tran	1.8	1.000	-2	5.700	-17		17.400	31
0%S-0-WS-Solar	1.8	0.700	638	0.790	635			
Lights-Prof=1	92	1.000			92			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					2,225	360		1,313
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,336	378		1,418

Zone 2-105 Estar Choferes peaks (sensible) in April at 9am, Air Handler 1 (Fc), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Wall-2-ENE-B-M	9	0.83	5.6	2.000	104		6.000	56
Partition-1-2	12		4/8	2.210	106		17.680	212
Partition-3-2	45.6		4/8	2.210	403		17.680	806
Gls-ENE-1-90-Tran	1.8	1.000	0	5.700	-1		17.400	31
0%S-0-WS-Solar	1.8	0.700	647	0.798	651			
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	5.0	1.000			350	225		
Sub-total					1,933	225		1,106
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,030	236		1,195

Zone 3-107 Triaje peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.7, Construction Type: 1 (Light)

Partition-1-2	10.7		4/8	2.210	95		17.680	189
Partition-2-2	52.4		4/8	2.210	463		17.680	926
Lights-Prof=1	107	1.000			107			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,205	240		1,116
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,265	252		1,205

Zone 4-108 Espera peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 109.1, Construction Type: 1 (Light)

Wall-2-NNW-B-M	34	0.83	6.1	2.000	416		6.000	205
Partition-1-2	109.1		4/8	2.210	964		17.680	1,929
Partition-3-2	153.2		4/8	2.210	1,354		17.680	2,709



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Gls-NNW-1-90-Tran	7.4	1.000	5	5.700	225		17.400	129
0%S-0-WS-Solar	7.4	0.700	481	0.833	2,087			
Lights-Prof=1	1,091	1.000			1,091			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	19.0	1.000			1,330	855		
Sub-total					7,918	855		4,972
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					8,314	898		5,370

Zone 5-109 Servicio Social peaks (sensible) in May at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.5, Construction Type: 1 (Light)

Wall-2-NNW-B-M	14	0.83	10.2	2.000	287		6.000	84
Partition-1-2	9.5		4/8	2.210	84		17.680	168
Partition-3-1	35.6		4/8	2.360	336		18.880	672
Lights-Prof=1	95	1.000			95			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,327	180		924
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,393	189		998

Zone 6-110 Ref Cref peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.4, Construction Type: 1 (Light)

Partition-1-2	9.4		4/8	2.210	83		17.680	166
Partition-2-2	49.2		4/8	2.210	435		17.680	870
Lights-Prof=1	94	1.000			94			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,137	180		1,036
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,194	189		1,119

Zone 7-111 Seguros peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.4, Construction Type: 1 (Light)

Partition-1-2	10.4		4/8	2.210	92		17.680	184
Partition-2-1	51.6		4/8	2.360	487		18.880	974
Lights-Prof=1	104	1.000			104			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,208	180		1,158
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,268	189		1,251



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 8-113 Admisión peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.7, Construction Type: 1 (Light)

Partition-1-2	12.7		4/8	2.210	112		17.680	225
Partition-2-2	57.6		4/8	2.210	509		17.680	1,018
Lights-Prof=1	127	1.000			127			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,498	120		1,243
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,573	126		1,342

Zone 9-113.1 Dispensación Y Expendio De Medicam peaks (sensible) in December at 7am, Air Handler 1 (Fc), Group 0, 1.0 x 30.9, Construction Type: 1 (Light)

Wall-2-SSE-B-M	19	0.83	6.2	2.000	242		6.000	116
Partition-1-1	30.9		4/8	2.360	292		18.880	583
Partition-3-2	48.8		4/8	2.210	431		17.680	863
Gls-SSE-1-90-Tran	5.0	1.000	-4	5.700	-117		17.400	88
0%S-0-WS-Solar	5.0	0.700	532	0.765	1,436			
Lights-Prof=1	309	1.000			309			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					3,433	240		1,650
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,604	252		1,782

Zone 10-114 Topico De Intectables peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 21.8, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-2	21.8		4/8	2.210	193		17.680	385
Partition-3-2	63.2		4/8	2.210	559		17.680	1,117
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	218	1.000			218			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,873	240		1,604
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,016	252		1,732

Zone 11-115 Topico Cirugia peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	6	0.83	6.0	2.000	74		6.000	37
Partition-1-2	17.3		4/8	2.210	153		17.680	306
Partition-3-2	58.4		4/8	2.210	516		17.680	1,033
Gls-WSW-1-90-Tran	1.8	1.000	6	5.700	57		17.400	31
0%S-0-WS-Solar	1.8	0.700	690	0.839	729			
Lights-Prof=1	173	1.000			173			
Equipment-Prof=1	450	1.000			450	0		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,392	240		1,407
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,512	252		1,519

Zone 12-116 Sala De Rehidratación peaks (sensible) in April at 9am, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Wall-2-ENE-B-M	11	0.83	5.6	2.000	123		6.000	67
Partition-1-2	15.3		4/8	2.210	135		17.680	271
Partition-3-2	48.8		4/8	2.210	431		17.680	863
Gls-ENE-1-90-Tran	2.9	1.000	0	5.700	-1		17.400	50
0%S-0-WS-Solar	2.9	0.700	647	0.798	1,041			
Lights-Prof=1	153	1.000			153			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,423	240		1,250
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,544	252		1,350

Zone 13-117 Topico Medicina peaks (sensible) in April at 9am, Air Handler 1 (Fc), Group 0, 1.0 x 16.1, Construction Type: 1 (Light)

Wall-2-ENE-B-M	12	0.83	5.6	2.000	132		6.000	72
Partition-1-2	16.1		4/8	2.210	142		17.680	285
Partition-3-2	49.6		4/8	2.210	438		17.680	877
Gls-ENE-1-90-Tran	2.9	1.000	0	5.700	-1		17.400	50
0%S-0-WS-Solar	2.9	0.700	647	0.798	1,041			
Lights-Prof=1	161	1.000			161			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,604	240		1,283
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,734	252		1,386

Zone 14-118 Sala De Espera Para Reevaluación peaks (sensible) in April at 9am, Air Handler 1 (Fc), Group 0, 1.0 x 62.1, Construction Type: 1 (Light)

Wall-2-ENE-B-M	18	0.83	5.6	2.000	202		6.000	109
Partition-1-2	62.1		4/8	2.210	549		17.680	1,098
Partition-3-2	154		4/8	2.210	1,361		17.680	2,723
Gls-ENE-1-90-Tran	1.4	1.000	0	5.700	-1		17.400	25
0%S-0-WS-Solar	1.4	0.700	647	0.798	521			
Lights-Prof=1	621	1.000			621			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	9.0	1.000			630	405		
Sub-total					4,183	405		3,955



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					4,392	425		4,271

Zone 15-119 Topico Pediatria peaks (sensible) in April at 9am, Air Handler 1 (Fc), Group 0, 1.0 x 16.4, Construction Type: 1 (Light)

Wall-2-ENE-B-M	15	0.83	5.6	2.000	163		6.000	88
Partition-1-2	16.4		4/8	2.210	145		17.680	290
Partition-3-2	47.6		4/8	2.210	421		17.680	842
Gls-ENE-1-90-Tran	2.9	1.000	0	5.700	-1		17.400	50
0%S-0-WS-Solar	2.9	0.700	647	0.798	1,041			
Lights-Prof=1	164	1.000			164			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,623	240		1,270
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,754	252		1,372

Zone 16-120 Terapia Medios Fisicos peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 5.0, Construction Type: 1 (Light)

Partition-1-2	5		4/8	2.210	44		17.680	88
Partition-2-1	36.4		4/8	2.360	344		18.880	687
Lights-Prof=1	50	1.000			50			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					898	160		776
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					943	168		838

Zone 17-121 Topico Gineco Obstetricia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.9, Construction Type: 1 (Light)

Partition-1-2	15.9		4/8	2.210	141		17.680	281
Partition-2-2	64		4/8	2.210	566		17.680	1,132
Lights-Prof=1	159	1.000			159			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,555	240		1,413
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,633	252		1,526

Zone 18-126 Policia Nacional peaks (sensible) in May at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 11.7, Construction Type: 1 (Light)

Wall-2-NNW-B-M	16	0.83	10.2	2.000	336		6.000	98
Partition-1-2	11.7		4/8	2.210	103		17.680	207



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-3-1	40.8		4/8	2.360	385		18.880	770
Lights-Prof=1	117	1.000			117			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,467	180		1,076
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,540	189		1,162

Zone 19-128 Uvi peaks (sensible) in December at 7pm, Air Handler 2 (Uma-n1-obs), Group 0, 1.0 x 23.8, Construction Type: 1 (Light)

Partition-1-2	23.8		4/8	2.210	210		17.680	421
Partition-2-1	78.8		4/8	2.360	744		18.880	1,488
Lights-Prof=1	238	1.000			238			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			160	140		
Sub-total					1,952	140		1,909
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,050	147		2,061

Zone 20-130 Almacen Medicamento peaks (sensible) in January at 5pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	9.0	2.000	162		6.000	54
Partition-1-2	12.3		4/8	2.210	109		17.680	217
Partition-3-2	46.4		4/8	2.210	410		17.680	820
Gls-WSW-1-90-Tran	2.2	1.000	9	5.700	105		17.400	38
0%S-0-WS-Solar	2.2	0.700	690	0.839	875			
Lights-Prof=1	123	1.000			123			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					2,454	45		1,130
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,577	47		1,220

Zone 21-131 Laboratorio Descentralizo peaks (sensible) in January at 5pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 12.5, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	108		8.000	72
Partition-1-2	12.5		4/8	2.210	111		17.680	221
Partition-3-2	46.8		4/8	2.210	414		17.680	827
Gls-WSW-1-90-Tran	2.2	1.000	6	5.700	68		23.200	50
0%S-0-WS-Solar	2.2	0.700	690	0.839	875			
Lights-Prof=1	125	1.000			125			
Equipment-Prof=1	800	1.000			800	0		
People-Prof=1	3.0	1.000			225	135		
Sub-total					2,725	135		1,171



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,861	142		1,265

Zone 22-132 Cuarto Técnico peaks (sensible) in January at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 9.4, Construction Type: 1 (Light)

Wall-2-WSW-B-M	8	0.83	10.6	2.000	179		6.000	50
Partition-1-1	9.4		4/8	2.360	89		18.880	177
Partition-3-1	44		4/8	2.360	415		18.880	831
Lights-Prof=1	94	1.000			94			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	0.9	1.000			75	75		
Sub-total					2,352	75		1,059
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,470	79		1,143

Zone 23-134 Estar De Perosnal De Guardia peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	10	0.83	6.0	2.000	118		6.000	59
Partition-1-2	15.3		4/8	2.210	135		17.680	271
Partition-3-1	51.2		4/8	2.360	483		18.880	967
Gls-WSW-1-90-Tran	2.2	1.000	6	5.700	68		17.400	38
0%S-0-WS-Solar	2.2	0.700	690	0.839	875			
Lights-Prof=1	153	1.000			153			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	6.0	1.000			420	270		
Sub-total					2,452	270		1,334
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,575	284		1,440

Zone 24-142 Secretaria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.7, Construction Type: 1 (Light)

Partition-1-2	10.7		4/8	2.210	95		17.680	189
Partition-2-1	54.8		4/8	2.360	517		18.880	1,035
Lights-Prof=1	107	1.000			107			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,244	180		1,224
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,306	189		1,322

Zone 25-143 Jefatura peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.7, Construction Type: 1 (Light)

Partition-1-2	12.7		4/8	2.210	112		17.680	225
---------------	------	--	-----	-------	-----	--	--------	-----



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-2-1	58.4		4/8	2.360	551		18.880	1,103
Lights-Prof=1	127	1.000			127			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,316	180		1,327
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,381	189		1,433

Zone 26-144 Sala De Observacion Mujeres peaks (sensible) in April at 9am, Air Handler 2 (Uma-n1-obs), Group 0, 1.0 x 150.6, Construction Type: 1 (Light)

Wall-2-ENE-B-M	28	0.83	5.6	2.000	312		8.000	225
Partition-1-2	150.6		4/8	2.210	1,331		17.680	2,663
Partition-3-2	225.6		4/8	2.210	1,994		17.680	3,989
Gls-ENE-1-90-Tran	5.9	1.000	0	5.700	-3		23.200	136
0%S-0-WS-Solar	5.9	0.700	647	0.798	2,126			
Lights-Prof=1	1,506	1.000			1,506			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	8.0	1.000			640	640		
Sub-total					9,407	640		7,013
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					9,877	672		7,574

Zone 27-147 Sala De Observacion Hombres peaks (sensible) in December at 7pm, Air Handler 2 (Uma-n1-obs), Group 0, 1.0 x 75.7, Construction Type: 1 (Light)

Partition-1-2	75.7		4/8	2.210	669		17.680	1,338
Partition-2-1	151.2		4/8	2.360	1,427		18.880	2,855
Lights-Prof=1	757	1.000			757			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	5.0	1.000			400	400		
Sub-total					4,754	400		4,193
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,991	420		4,528

Zone 28-148 Sala De Observación Pediatria peaks (sensible) in April at 9am, Air Handler 2 (Uma-n1-obs), Group 0, 1.0 x 42.6, Construction Type: 1 (Light)

Wall-2-ENE-B-M	20	0.83	5.6	2.000	224		8.000	161
Partition-1-2	42.6		4/8	2.210	377		17.680	753
Partition-3-2	83.6		4/8	2.210	739		17.680	1,478
Gls-ENE-1-90-Tran	5.0	1.000	0	5.700	-3		23.200	117
0%S-0-WS-Solar	5.0	0.700	647	0.798	1,822			
Lights-Prof=1	426	1.000			426			
Equipment-Prof=1	900	1.000			900	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					4,725	240		2,509



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					4,961	252		2,710

Zone 29-150 Esclusa peaks (sensible) in December at 7pm, Air Handler 4 (Uma-n1-aisl.obse), Group 0, 1.0 x 6.7, Construction Type: 1 (Light)

Partition-1-2	6.7		4/8	2.210	59		17.680	118
Partition-2-1	41.2		4/8	2.360	389		18.880	778
Lights-Prof=1	67	1.000			67			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					695	80		896
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					730	84		968

Zone 30-151 Sala De Observación Aislado peaks (sensible) in December at 7pm, Air Handler 4 (Uma-n1-aisl.obse), Group 0, 1.0 x 17.9, Construction Type: 1 (Light)

Partition-1-2	17.9		4/8	2.210	158		17.680	316
Partition-2-1	68.8		4/8	2.360	649		18.880	1,299
Lights-Prof=1	179	1.000			179			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			150	150		
Sub-total					1,587	150		1,615
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,666	158		1,745

Zone 31-158 Oficina Coe peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.5, Construction Type: 1 (Light)

Partition-1-2	12.5		4/8	2.210	111		17.680	221
Partition-2-1	57.2		4/8	2.360	540		18.880	1,080
Lights-Prof=1	125	1.000			125			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,300	180		1,301
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,365	189		1,405

Zone 32-161 Cocina Comedor peaks (sensible) in December at 7am, Air Handler 1 (Fc), Group 0, 1.0 x 49.0, Construction Type: 1 (Light)

Wall-2-SSE-B-M	14	0.83	6.2	2.000	179		6.000	86
Partition-1-2	49		4/8	2.210	433		17.680	866
Partition-3-2	165.2		4/8	2.210	1,460		17.680	2,921
Gls-SSE-1-90-Tran	2.9	1.000	-4	5.700	-67		17.400	50
0%S-0-WS-Solar	2.9	0.700	532	0.765	821			



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	490	1.000			490			
Equipment-Prof=1	1,470	1.000			1,470	0		
People-Prof=1	4.9	1.000			392	392		
Sub-total					5,178	392		3,923
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					5,437	412		4,237

Zone 33-165 Habitación Gestante Adolescente peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.7, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	109		6.000	54
Partition-1-2	14.7		4/8	2.210	130		17.680	260
Partition-3-2	52		4/8	2.210	460		17.680	919
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	147	1.000			147			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					2,305	160		1,278
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,420	168		1,380

Zone 34-166 Habetación Gestante Sola peaks (sensible) in December at 7am, Air Handler 1 (Fc), Group 0, 1.0 x 10.7, Construction Type: 1 (Light)

Wall-2-SSE-B-M	10	0.83	6.2	2.000	128		6.000	62
Partition-1-2	10.7		4/8	2.210	95		17.680	189
Partition-3-2	9.9		4/8	2.210	88		17.680	175
Gls-SSE-1-90-Tran	2.5	1.000	-4	5.700	-59		17.400	44
0%S-0-WS-Solar	2.5	0.700	532	0.765	718			
Lights-Prof=1	107	1.000			107			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					1,357	80		470
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,425	84		507

Zone 35-169 Habitacupin Gestante Con Pareja peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.5, Construction Type: 1 (Light)

Wall-2-WSW-B-M	11	0.83	6.0	2.000	133		6.000	66
Wall-3-SSE-B-M	18	0.83	9.0	2.000	324		6.000	108
Partition-1-2	15.5		4/8	2.210	137		17.680	274
Partition-4-2	32		4/8	2.210	283		17.680	566
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	155	1.000			155			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	2.0	1.000			160	160		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					2,491	160		1,058
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,616	168		1,143

Zone 36-170 Gimnasio Para Adultos Y Niños peaks (sensible) in May at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 50.4, Construction Type: 1 (Light)

Wall-2-NNW-B-M	33	0.83	6.9	2.000	462		6.000	200
Partition-1-2	50.4		4/8	2.210	446		17.680	891
Partition-3-1	80.4		4/8	2.360	759		18.880	1,518
Gls-NNW-1-90-Tran	4.6	1.000	6	5.700	166		17.400	80
0%S-0-WS-Solar	4.6	0.700	481	0.787	1,224			
Lights-Prof=1	504	1.000			504			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	8.0	1.000			1,680	2,560		
Sub-total					5,841	2,560		2,690
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					6,133	2,688		2,905

Zone 37-179 Jefatura peaks (sensible) in May at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.9, Construction Type: 1 (Light)

Wall-2-NNW-B-M	12	0.83	10.2	2.000	246		6.000	72
Partition-1-2	15.9		4/8	2.210	141		17.680	281
Partition-3-2	54.4		4/8	2.210	481		17.680	962
Lights-Prof=1	159	1.000			159			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,551	180		1,315
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,629	189		1,420

Zone 38-180 Sala De Espera peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 56.4, Construction Type: 1 (Light)

Wall-2-NNW-B-M	20	0.83	6.1	2.000	244		6.000	120
Partition-1-2	56.4		4/8	2.210	499		17.680	997
Partition-3-1	54.4		4/8	2.360	514		18.880	1,027
Gls-NNW-1-90-Tran	4.8	1.000	5	5.700	144		17.400	83
0%S-0-WS-Solar	4.8	0.700	481	0.833	1,335			
Lights-Prof=1	564	1.000			564			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	18.0	1.000			1,350	810		
Sub-total					4,850	810		2,227
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					5,092	850		2,405



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Zone 39-187 Sala De Fisioterapia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 33.6, Construction Type: 1 (Light)								
Partition-1-2	33.6		4/8	2.210	297		17.680	594
Partition-2-2	96.8		4/8	2.210	856		17.680	1,711
Lights-Prof=1	336	1.000			336			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.4	1.000			269	269		
Sub-total					2,358	269		2,305
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,475	282		2,490

Zone 40-188 Hidroterapia Medios Superiores peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 19.1, Construction Type: 1 (Light)								
Partition-1-1	76.4		4/8	2.360	721		18.880	1,442
Partition-2-2	70		4/8	2.210	619		17.680	1,238
Lights-Prof=1	191	1.000			191			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					2,141	160		2,680
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,248	168		2,894

Zone 41-192 Historias Clinicas peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 29.3, Construction Type: 1 (Light)								
Partition-1-2	29.3		4/8	2.210	259		17.680	518
Partition-2-2	92.4		4/8	2.210	817		17.680	1,634
Lights-Prof=1	293	1.000			293			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					1,744	60		2,152
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,831	63		2,324

Zone 42-193 Caja peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 6.5, Construction Type: 1 (Light)								
Partition-1-2	6.5		4/8	2.210	57		17.680	115
Partition-2-1	42		4/8	2.360	396		18.880	793
Lights-Prof=1	65	1.000			65			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					894	60		908
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					939	63		981



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 43-194 Admisión Y Citas peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.2, Construction Type: 1 (Light)

Partition-1-2	14.2		4/8	2.210	126		17.680	251
Partition-2-2	63.6		4/8	2.210	562		17.680	1,124
Lights-Prof=1	142	1.000			142			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,580	120		1,376
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,659	126		1,486

Zone 44-196 Central De Vigilancia Y Seguridad peaks (sensible) in December at 7am, Air Handler 1 (Fc), Group 0, 1.0 x 19.4, Construction Type: 1 (Light)

Wall-2-SSE-B-M	9	0.83	6.2	2.000	108		6.000	52
Partition-1-2	19.4		4/8	2.210	171		17.680	343
Partition-3-2	67.2		4/8	2.210	594		17.680	1,188
Gls-SSE-1-90-Tran	2.5	1.000	-4	5.700	-59		17.400	44
0%S-0-WS-Solar	2.5	0.700	532	0.765	718			
Lights-Prof=1	194	1.000			194			
Equipment-Prof=1	582	1.000			582	0		
People-Prof=1	4.0	1.000			300	240		
Sub-total					2,609	240		1,627
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,740	252		1,757

Zone 45-197 Sala De Telecom lii peaks (sensible) in January at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.9, Construction Type: 1 (Light)

Wall-2-SSE-B-M	13	0.83	12.0	2.000	307		6.000	77
Partition-1-2	12.9		4/8	2.210	114		17.680	228
Partition-3-2	45.2		4/8	2.210	400		17.680	799
Lights-Prof=1	129	1.000			129			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,530	80		1,104
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,656	84		1,192

Zone 46-198 Almacen Especializado peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 51.2, Construction Type: 1 (Light)

Partition-1-2	51.2		4/8	2.210	453		17.680	905
Partition-2-2	120		4/8	2.210	1,061		17.680	2,122
Lights-Prof=1	512	1.000			512			
Equipment-Prof=1	300	1.000			300	0		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,550	180		3,027
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,678	189		3,269

Zone 47-199 Dispensacion Y Expendio peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 40.5, Construction Type: 1 (Light)

Partition-1-2	40.5		4/8	2.210	358		17.680	716
Partition-2-1	103.2		4/8	2.360	974		18.880	1,948
Lights-Prof=1	405	1.000			405			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,562	180		2,664
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,690	189		2,878

Zone 48-1100 Farmacovig Y Tecnovigi peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 22.8, Construction Type: 1 (Light)

Partition-1-2	22.8		4/8	2.210	202		17.680	403
Partition-2-2	77.2		4/8	2.210	682		17.680	1,365
Lights-Prof=1	228	1.000			228			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					2,162	360		1,768
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,270	378		1,909

Zone 49-1101 Gestion De Programación peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.0, Construction Type: 1 (Light)

Partition-1-2	13		4/8	2.210	115		17.680	230
Partition-2-2	59.2		4/8	2.210	523		17.680	1,047
Lights-Prof=1	130	1.000			130			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,293	180		1,276
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,358	189		1,379

Zone 50-1104 Jefatura Secretaria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 16.8, Construction Type: 1 (Light)

Partition-1-2	16.8		4/8	2.210	149		17.680	297
Partition-2-1	68		4/8	2.360	642		18.880	1,284



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	168	1.000			168			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					2,008	360		1,581
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,109	378		1,707

Zone 51-1107 Dosis Unitaria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 28.2, Construction Type: 1 (Light)

Partition-1-2	28.2		4/8	2.210	249		17.680	499
Partition-2-2	88.4		4/8	2.210	781		17.680	1,563
Lights-Prof=1	282	1.000			282			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	7.0	1.000			525	420		
Sub-total					2,138	420		2,061
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,245	441		2,226

Zone 52-1108 Jefatura Secretaria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Partition-1-2	15.3		4/8	2.210	135		17.680	271
Partition-2-2	66.8		4/8	2.210	591		17.680	1,181
Lights-Prof=1	153	1.000			153			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					1,929	360		1,452
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,025	378		1,568

Zone 53-1109 Sala De Ecografia General peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.0, Construction Type: 1 (Light)

Partition-1-2	17		4/8	2.210	150		17.680	301
Partition-2-2	68		4/8	2.210	601		17.680	1,202
Lights-Prof=1	170	1.000			170			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,761	240		1,503
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,849	252		1,623

Zone 54-1113 Sala De Impresió peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 22.0, Construction Type: 1 (Light)



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-1-2	22		4/8	2.210	194		17.680	389
Partition-2-2	85.2		4/8	2.210	753		17.680	1,506
Lights-Prof=1	220	1.000			220			
Equipment-Prof=1	900	1.000			900	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,293	180		1,895
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,407	189		2,047

Zone 55-1114 Comando peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 6.0, Construction Type: 1 (Light)

Partition-1-2	6		4/8	2.210	53		17.680	106
Partition-2-2	40.4		4/8	2.210	357		17.680	714
Lights-Prof=1	60	1.000			60			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					1,145	60		820
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,202	63		886

Zone 56-1115 Sala De Radiologia Convencional peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 19.5, Construction Type: 1 (Light)

Partition-1-2	19.5		4/8	2.210	172		17.680	345
Partition-2-2	71.6		4/8	2.210	633		17.680	1,266
Lights-Prof=1	195	1.000			195			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					2,660	160		1,611
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,793	168		1,740

Zone 57-1116 Recepción peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.9, Construction Type: 1 (Light)

Partition-1-2	10.9		4/8	2.210	96		17.680	193
Partition-2-2	58.4		4/8	2.210	516		17.680	1,033
Lights-Prof=1	109	1.000			109			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,472	120		1,225
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,545	126		1,323



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 58-1122 Laboratorio De Hematología peaks (sensible) in December at 7pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 17.0, Construction Type: 1 (Light)

Partition-1-2	17		4/8	2.210	150		17.680	301
Partition-2-1	66		4/8	2.360	623		18.880	1,246
Lights-Prof=1	170	1.000			170			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	4.0	1.000			320	560		
Sub-total					2,463	560		1,547
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,586	588		1,670

Zone 59-1123 Lavado Y Desin peaks (sensible) in December at 7pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 10.1, Construction Type: 1 (Light)

Partition-1-2	10.1		4/8	2.210	89		17.680	179
Partition-2-1	53.2		4/8	2.360	502		18.880	1,004
Lights-Prof=1	101	1.000			101			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					1,062	45		1,183
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,116	47		1,278

Zone 60-1125 Esclusa peaks (sensible) in December at 7pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 4.0, Construction Type: 1 (Light)

Partition-1-2	4		4/8	2.210	35		17.680	71
Partition-2-2	32		4/8	2.210	283		17.680	566
Lights-Prof=1	40	1.000			40			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					538	80		636
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					565	84		687

Zone 61-1126 Laboratorio De Bioquimica peaks (sensible) in December at 7pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 17.1, Construction Type: 1 (Light)

Partition-1-2	17.1		4/8	2.210	151		17.680	302
Partition-2-2	69.6		4/8	2.210	615		17.680	1,231
Lights-Prof=1	171	1.000			171			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	4.0	1.000			320	560		
Sub-total					2,457	560		1,533
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,580	588		1,655



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 62-1127 Laboratorio De Microbiología peaks (sensible) in December at 7pm, Air Handler 3 (Uma-n1-laboratorio), Group 0, 1.0 x 20.0, Construction Type: 1 (Light)

Partition-1-2	80		4/8	2.210	707	17.680	1,414
Partition-2-2	71.6		4/8	2.210	633	17.680	1,266
Lights-Prof=1	200	1.000			200		
Equipment-Prof=1	1,200	1.000			1,200	0	
People-Prof=1	4.0	1.000			320	560	
Sub-total					3,060	560	2,680
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,213	588	2,895

Zone 63-1128 Registro De Laboratorio peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 5.7, Construction Type: 1 (Light)

Partition-1-2	5.7		4/8	2.210	50	17.680	101
Partition-2-2	39.2		4/8	2.210	347	17.680	693
Lights-Prof=1	57	1.000			57		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	1.0	1.000			75	60	
Sub-total					829	60	794
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					870	63	857

Zone 64-1129 Toma De Muestras Sanguinea peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 8.6, Construction Type: 1 (Light)

Partition-1-2	8.6		4/8	2.210	76	17.680	152
Partition-2-2	46.8		4/8	2.210	414	17.680	827
Lights-Prof=1	86	1.000			86		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	2.0	1.000			150	120	
Sub-total					1,026	120	979
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,077	126	1,058

Zone 65-1134 Cuarto Técnico peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 7.4, Construction Type: 1 (Light)

Partition-1-2	7.4		4/8	2.210	65	17.680	131
Lights-Prof=1	74	1.000			74		
Equipment-Prof=1	1,500	1.000			1,500	0	
People-Prof=1	1.0	1.000			80	80	
Sub-total					1,719	80	131
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,805	84	141



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 66-1135 Recepción De Muestras peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.3, Construction Type: 1 (Light)

Partition-1-2	13.3		4/8	2.210	118		17.680	235
Partition-2-2	62.8		4/8	2.210	555		17.680	1,110
Lights-Prof=1	133	1.000			133			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,556	120		1,345
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,634	126		1,453

Zone 67-1136 Jefatura Secretaria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 16.8, Construction Type: 1 (Light)

Partition-1-2	16.8		4/8	2.210	149		17.680	297
Partition-2-2	68		4/8	2.210	601		17.680	1,202
Lights-Prof=1	168	1.000			168			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					1,968	360		1,499
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,066	378		1,619

Zone 68-1138 Sala De Telecom peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 16.9, Construction Type: 1 (Light)

Partition-1-2	16.9		4/8	2.210	149		17.680	299
Partition-2-2	66		4/8	2.210	583		17.680	1,167
Lights-Prof=1	169	1.000			169			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,482	80		1,466
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,606	84		1,583

Zone 69-1139 Cuarto Técnico peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.4, Construction Type: 1 (Light)

Partition-1-2	10.41		4/8	2.210	92		17.680	184
Partition-2-2	66		4/8	2.210	583		17.680	1,167
Lights-Prof=1	104	1.000			104			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,359	80		1,351
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,477	84		1,459



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 70-1140 Hall peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 101.8, Construction Type: 1 (Light)

Partition-1-2	101.8		4/8	2.210	900		17.680	1,800
Partition-2-2	173.2		4/8	2.210	1,531		17.680	3,062
Lights-Prof=1	1,018	1.000			1,018			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	12.0	1.000			960	960		
Sub-total					4,609	960		4,862
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,839	1,008		5,251

Zone 71-1142 Cto Técnico peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.7, Construction Type: 1 (Light)

Partition-1-2	10.7		4/8	2.210	95		17.680	189
Partition-2-1	53.6		4/8	2.360	506		18.880	1,012
Lights-Prof=1	107	1.000			107			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,288	80		1,201
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,402	84		1,297

Zone 72-1148 Ref Cref peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.3, Construction Type: 1 (Light)

Partition-1-2	9.3		4/8	2.210	82		17.680	164
Partition-2-2	50		4/8	2.210	442		17.680	884
Lights-Prof=1	93	1.000			93			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,142	180		1,048
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,199	189		1,132

Zone 73-1150 Seguros peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Partition-1-2	12		4/8	2.210	106		17.680	212
Partition-2-2	56		4/8	2.210	495		17.680	990
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,246	180		1,202
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,308	189		1,298



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 74-1151 Servicio Social peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.3, Construction Type: 1 (Light)

Partition-1-2	9.3		4/8	2.210	82		17.680	164
Partition-2-2	48.8		4/8	2.210	431		17.680	863
Lights-Prof=1	93	1.000			93			
Equipment-Prof=1	279	1.000			279	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,111	180		1,027
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,166	189		1,109

Zone 75-1153 Consejeria Y Prevención De Its peaks (sensible) in May at 2pm, Air Handler 6 (Uma-n1-vih), Group 0, 1.0 x 13.8, Construction Type: 1 (Light)

Wall-2-NNW-B-M	15	0.83	6.1	2.000	183		8.000	120
Partition-1-2	13.8		4/8	2.210	122		17.680	244
Partition-3-2	42.4		4/8	2.210	375		17.680	750
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102		23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942			
Lights-Prof=1	138	1.000			138			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,402	240		1,192
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,522	252		1,287

Zone 76-1154 Espera peaks (sensible) in January at 5pm, Air Handler 6 (Uma-n1-vih), Group 0, 1.0 x 29.3, Construction Type: 1 (Light)

Wall-2-NNW-B-M	12	0.83	2.7	2.000	66		8.000	99
Wall-3-WSW-B-M	14	0.83	6.0	2.000	167		8.000	111
Partition-1-2	29.3		4/8	2.210	259		17.680	518
Partition-4-2	103.2		4/8	2.210	912		17.680	1,825
Gls-WSW-1-90-Tran	4.5	1.000	6	5.700	141		23.200	104
0%S-0-WS-Solar	4.5	0.700	690	0.839	1,815			
Lights-Prof=1	293	1.000			293			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	6.0	1.000			480	480		
Sub-total					4,332	480		2,657
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,549	504		2,870

Zone 77-1156 Sala De Targa peaks (sensible) in March at 7pm, Air Handler 6 (Uma-n1-vih), Group 0, 1.0 x 8.0, Construction Type: 1 (Light)

Wall-2-WSW-B-M	5	0.83	7.6	2.000	73		8.000	38
Partition-1-2	8		4/8	2.210	71		17.680	141
Partition-3-2	42.8		4/8	2.210	378		17.680	757
Lights-Prof=1	80	1.000			80			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					1,142	240		937
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,200	252		1,011

Zone 78-1157 Almacen De Medic. peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 6.0, Construction Type: 1 (Light)

Partition-1-2	6		4/8	2.210	53		17.680	106
Partition-2-2	39.2		4/8	2.210	347		17.680	693
Lights-Prof=1	60	1.000			60			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					1,140	80		799
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,197	84		863

Zone 79-1160 Sala De Espera peaks (sensible) in January at 7am, Air Handler 1 (Fc), Group 0, 1.0 x 376.3, Construction Type: 1 (Light)

Wall-2-ENE-B-M	60	0.83	3.0	2.000	357		6.000	360
Wall-3-SSE-B-M	45	0.83	7.3	2.000	662		6.000	271
Partition-1-2	376.3		4/8	2.210	3,326		17.680	6,653
Partition-4-2	410.8		4/8	2.210	3,631		17.680	7,263
Gls-SSE-1-90-Tran	17.6	1.000	-2	5.700	-250		17.400	307
0%S-0-WS-Solar	17.6	0.700	493	0.765	4,658			
Lights-Prof=1	3,763	1.000			3,763			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	150.0	1.000			10,500	6,750		
Sub-total					27,248	6,750		14,854
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					28,610	7,088		16,042

Zone 80-1161 Psicoprofilaxis peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 39.1, Construction Type: 1 (Light)

Partition-1-2	39.1		4/8	2.210	346		17.680	691
Partition-2-2	100.4		4/8	2.210	888		17.680	1,775
Lights-Prof=1	391	1.000			391			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	5.0	1.000			400	400		
Sub-total					2,624	400		2,466
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,755	420		2,664

Zone 81-1162 Consultorio De Gineco Obstr peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.0, Construction Type: 1 (Light)



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-1-2	15		4/8	2.210	133		17.680	265
Partition-2-2	70.4		4/8	2.210	622		17.680	1,245
Lights-Prof=1	150	1.000			150			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,445	240		1,510
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,517	252		1,631

Zone 82-1164 Consultorio De Gineco Obstr peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.0, Construction Type: 1 (Light)

Partition-1-2	15		4/8	2.210	133		17.680	265
Partition-2-2	70.4		4/8	2.210	622		17.680	1,245
Lights-Prof=1	150	1.000			150			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,445	240		1,510
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,517	252		1,631

Zone 83-1166 Control Prenatal peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.5, Construction Type: 1 (Light)

Partition-1-2	14.5		4/8	2.210	128		17.680	256
Partition-2-2	70.8		4/8	2.210	626		17.680	1,252
Lights-Prof=1	145	1.000			145			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,439	240		1,508
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,511	252		1,629

Zone 84-1173 Planificación Familiar peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-3-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-2	14.6		4/8	2.210	129		17.680	258
Partition-2-2	50.8		4/8	2.210	449		17.680	898
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,478	240		1,257
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,601	252		1,358



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	-----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 85-1174 Sala De Estimulación Temprana peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 19.4, Construction Type: 1 (Light)

Wall-2-WSW-B-M	13	0.83	6.0	2.000	161		6.000	81
Partition-1-2	19.4		4/8	2.210	171		17.680	343
Partition-3-2	54.8		4/8	2.210	484		17.680	969
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	194	1.000			194			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,651	240		1,437
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,784	252		1,552

Zone 86-1176 Consultorio De Pediatria peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-2	14.6		4/8	2.210	129		17.680	258
Partition-3-1	50.8		4/8	2.360	480		18.880	959
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,508	240		1,318
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,633	252		1,423

Zone 87-1177 Consultorio De Pediatria peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-2	14.6		4/8	2.210	129		17.680	258
Partition-3-1	50.8		4/8	2.360	480		18.880	959
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,508	240		1,318
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,633	252		1,423



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 88-1178 Consultorio De Crecimiento Y Desarr peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	12	0.83	6.0	2.000	142	6.000	71
Partition-1-2	17.3		4/8	2.210	153	17.680	306
Partition-3-2	52.8		4/8	2.210	467	17.680	934
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021		
Lights-Prof=1	173	1.000			173		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					2,575	240	1,354
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,704	252	1,463

Zone 89-1179 Sala De Inmunizaciones peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	10	0.83	6.0	2.000	123	6.000	62
Partition-1-2	15.3		4/8	2.210	135	17.680	271
Partition-3-2	51.2		4/8	2.210	453	17.680	905
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021		
Lights-Prof=1	153	1.000			153		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					2,504	240	1,281
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,629	252	1,384

Zone 90-1180 At Int Del Adulto Mayor peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	10	0.83	6.0	2.000	123	6.000	62
Partition-1-2	15.3		4/8	2.210	135	17.680	271
Partition-3-2	51.6		4/8	2.210	456	17.680	912
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021		
Lights-Prof=1	153	1.000			153		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					2,507	240	1,288
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,633	252	1,391

Zone 91-1183 Cyp De Enferm peaks (sensible) in March at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 16.3, Construction Type: 1 (Light)

Wall-2-WSW-B-M	14	0.83	7.6	2.000	208	6.000	82
Partition-1-2	16.3		4/8	2.210	144	17.680	288
Partition-3-2	52		4/8	2.210	460	17.680	919
Lights-Prof=1	163	1.000			163		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,515	240		1,289
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,590	252		1,392

Zone 92-1184 Cyp De Enf. No Trans peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-2-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-2	14.6		4/8	2.210	129		17.680	258
Partition-3-2	50.8		4/8	2.210	449		17.680	898
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,478	240		1,257
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,601	252		1,358

Zone 93-1185 Triage peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.1, Construction Type: 1 (Light)

Wall-2-WSW-B-M	8	0.83	6.0	2.000	99		6.000	50
Partition-1-2	13.1		4/8	2.210	116		17.680	232
Partition-3-1	49.6		4/8	2.360	468		18.880	936
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	131	1.000			131			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,454	240		1,262
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,577	252		1,363

Zone 94-1186 Sala De Telecom peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.1, Construction Type: 1 (Light)

Partition-1-2	12.1		4/8	2.210	107		17.680	214
Partition-2-1	27.6		4/8	2.360	261		18.880	521
Lights-Prof=1	121	1.000			121			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.2	1.000			97	97		
Sub-total					2,085	97		735
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,190	102		794



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	-----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 95-1189 Almac De Medicam peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 6.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	6	0.50	22.2	2.210	299		6.630	40
Partition-2-1	30.8		4/8	2.360	291		18.880	582
Lights-Prof=1	61	1.000			61			
Equipment-Prof=1	183	1.000			183	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					904	45		622
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					949	47		672

Zone 96-1190 Toma De Medic peaks (sensible) in January at 3pm, Air Handler 7 (Uma-n1-tbc), Group 0, 1.0 x 8.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	8	0.50	19.2	2.210	344		8.840	72
Wall-2-SSE-B-M	10	0.83	8.2	2.000	162		8.000	79
Partition-1-2	33.6		4/8	2.210	297		17.680	594
Gls-SSE-1-90-Tran	2.1	1.000	7	5.700	78		23.200	49
0%S-0-WS-Solar	2.1	0.700	493	0.342	248			
Lights-Prof=1	81	1.000			81			
Equipment-Prof=1	500	1.000			500	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					1,869	160		794
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,962	168		857

Zone 97-1193 Prevención Y Control Tbc peaks (sensible) in May at 2pm, Air Handler 7 (Uma-n1-tbc), Group 0, 1.0 x 13.5, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	14	0.50	19.4	2.210	580		8.840	119
Wall-2-NNW-B-M	12	0.83	6.1	2.000	143		8.000	94
Partition-1-2	44.8		4/8	2.210	396		17.680	792
Gls-NNW-1-90-Tran	2.2	1.000	5	5.700	68		23.200	52
0%S-0-WS-Solar	2.2	0.700	481	0.833	628			
Lights-Prof=1	135	1.000			135			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,490	240		1,057
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,615	252		1,142

Zone 98-1213 Jefatura Soporte Técnico peaks (sensible) in May at 2pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	19.4	2.210	528		6.630	82
Wall-1-NNW-B-M	11	0.83	6.1	2.000	135		6.000	66



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-2-2	44.8		4/8	2.210	396		17.680	792
Gls-NNW-1-90-Tran	2.9	1.000	5	5.700	89		17.400	51
0%S-0-WS-Solar	2.9	0.700	481	0.833	825			
Lights-Prof=1	123	1.000			123			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,636	240		991
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,768	252		1,070

Zone 99-1214 Recepción peaks (sensible) in January at 4pm, Air Handler 10 (Dx), Group 0, 1.0 x 16.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	16	0.50	21.2	2.210	759		6.630	107
Wall-1-WSW-B-M	10	0.83	8.2	2.000	163		6.000	60
Partition-2-2	58.8		4/8	2.210	520		17.680	1,040
Gls-WSW-1-90-Tran	2.8	1.000	10	5.700	152		17.400	49
0%S-0-WS-Solar	2.8	0.700	690	0.801	1,083			
Lights-Prof=1	162	1.000			162			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.6	1.000			122	97		
Sub-total					3,260	97		1,256
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,423	102		1,356

Zone 100-1231 Jefatura Y Secretaria peaks (sensible) in January at 5pm, Air Handler 10 (Dx), Group 0, 1.0 x 15.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	19.2	2.210	645		6.630	101
Wall-1-NNW-B-M	16	0.83	5.7	2.000	186		6.000	98
Wall-2-WSW-B-M	12	0.83	9.0	2.000	216		6.000	72
Partition-3-2	31.2		4/8	2.210	276		17.680	552
Gls-WSW-1-90-Tran	2.8	1.000	9	5.700	136		17.400	49
0%S-0-WS-Solar	2.8	0.700	690	0.839	1,134			
Lights-Prof=1	152	1.000			152			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			480	480		
Sub-total					3,824	480		872
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,015	504		941

Zone 101-1239 Recepció Y Despacho peaks (sensible) in January at 4pm, Air Handler 10 (Dx), Group 0, 1.0 x 26.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	26	0.50	21.2	2.210	1,237		6.630	175
Wall-1-WSW-B-M	12	0.83	8.2	2.000	192		6.000	71
Partition-2-2	44.8		4/8	2.210	396		17.680	792
Gls-WSW-1-90-Tran	2.2	1.000	10	5.700	121		17.400	39
0%S-0-WS-Solar	2.2	0.700	690	0.801	866			



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	264	1.000			264			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					3,526	120		1,077
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,703	126		1,163

Zone 102-1240 Jefatura peaks (sensible) in May at 2pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	10	0.50	19.4	2.210	447		6.630	69
Wall-1-NNW-B-M	12	0.83	6.1	2.000	148		6.000	73
Partition-2-2	37.6		4/8	2.210	332		17.680	665
Gls-NNW-1-90-Tran	2.2	1.000	5	5.700	68		17.400	39
0%S-0-WS-Solar	2.2	0.700	481	0.833	628			
Lights-Prof=1	104	1.000			104			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					2,102	60		846
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,207	63		913

Zone 103-1244 Almacen De Medicamentos peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 25.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	26	0.50	22.2	2.210	1,261		6.630	170
Wall-1-SSE-B-M	15	0.83	11.2	2.000	335		6.000	90
Partition-2-2	62		4/8	2.210	548		17.680	1,096
Gls-SSE-1-90-Tran	4.2	1.000	10	5.700	228		17.400	73
0%S-0-WS-Solar	4.2	0.700	493	0.342	495			
Lights-Prof=1	257	1.000			257			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					3,804	80		1,430
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,994	84		1,544

Zone 104-1250 Unidad De Salud Ambiental peaks (sensible) in January at 4pm, Air Handler 10 (Dx), Group 0, 1.0 x 20.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	21	0.50	21.2	2.210	965		6.630	137
Wall-1-ENE-B-M	20	0.83	10.1	2.000	397		6.000	118
Wall-2-NNW-B-M	17	0.83	4.8	2.000	166		6.000	103
Partition-3-2	36		4/8	2.210	318		17.680	636
Lights-Prof=1	206	1.000			206			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			480	480		
Sub-total					3,132	480		994



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,289	504		1,073

Zone 105-1251 Sala De Telecom peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	22.2	2.210	599		6.630	81
Partition-1-2	56.8		4/8	2.210	502		17.680	1,004
Lights-Prof=1	122	1.000			122			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.2	1.000			98	98		
Sub-total					2,820	98		1,085
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,961	102		1,172

Zone 106-1256 Jefatura peaks (sensible) in May at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	19.4	2.210	524		6.630	81
Wall-1-NNW-B-M	15	0.83	6.9	2.000	210		6.000	91
Partition-2-2	40.8		4/8	2.210	361		17.680	721
Lights-Prof=1	122	1.000			122			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,742	180		893
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,829	189		965

Zone 107-201 Sala Multifunciones peaks (sensible) in April at 4pm, Air Handler 8 (Uma-n2-sm), Group 0, 1.0 x 37.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	38	0.50	19.4	2.210	1,622		8.840	334
Wall-2-ENE-B-M	36	0.83	10.5	2.000	758		8.000	288
Wall-3-NNW-B-M	20	0.83	6.7	2.000	268		8.000	160
Partition-1-2	11.5		4/8	2.210	102		17.680	203
Lights-Prof=1	378	1.000			378			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	8.0	1.000			640	1,120		
Sub-total					4,967	1,120		985
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					5,216	1,176		1,064

Zone 108-203 Atención Inmediata Al Recién Nacido peaks (sensible) in May at 4pm, Air Handler 9 (Uma-n2-dil), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	18.4	2.210	623		8.840	135
Wall-2-NNW-B-M	21	0.83	7.8	2.000	322		8.000	166



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-1-2	44.4		4/8	2.210	392		17.680	785
Lights-Prof=1	153	1.000			153			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	1.5	1.000			107	69		
Sub-total					2,048	69		1,087
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,151	72		1,174

Zone 109-204 Sala De Partos peaks (sensible) in April at 3pm, Air Handler 11 (Uma-n2-sp), Group 0, 1.0 x 33.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	34	0.50	20.4	2.210	1,520		8.840	298
Wall-2-NNW-B-M	30	0.83	5.9	2.000	347		8.000	237
Partition-1-2	60.8		4/8	2.210	537		17.680	1,075
Lights-Prof=1	337	1.000			337			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			240	420		
Sub-total					3,582	420		1,610
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,761	441		1,738

Zone 110-205.1 Estación De Obstetricia peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	20.4	2.210	555		6.630	82
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Lights-Prof=1	123	1.000			123			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					1,704	160		1,214
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,789	168		1,311

Zone 111-208 Sala De Puerperio Inmediato peaks (sensible) in December at 7pm, Air Handler 9 (Uma-n2-dil), Group 0, 1.0 x 29.2, Construction Type: 1 (Light)

Partition-1-2	29.2		4/8	2.210	258		17.680	516
Partition-2-1	90.4		4/8	2.360	853		18.880	1,707
Lights-Prof=1	292	1.000			292			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	4.0	1.000			280	180		
Sub-total					2,284	180		2,223
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,398	189		2,401



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 112-211 Estar De Personal peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	20.4	2.210	555	6.630	82
Partition-1-2	56.4		4/8	2.210	499	17.680	997
Lights-Prof=1	123	1.000			123		
Equipment-Prof=1	200	1.000			200	0	
People-Prof=1	6.0	1.000			480	480	
Sub-total					1,856	480	1,079
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,949	504	1,165

Zone 113-212 Control peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 6.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	7	0.50	20.4	2.210	302	6.630	44
Partition-1-2	42.4		4/8	2.210	375	17.680	750
Lights-Prof=1	67	1.000			67		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	1.0	1.000			75	60	
Sub-total					1,119	60	794
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,175	63	858

Zone 114-213 Sala De Dilatación peaks (sensible) in April at 3pm, Air Handler 9 (Uma-n2-dil), Group 0, 1.0 x 54.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	55	0.50	20.4	2.210	2,472	8.840	484
Partition-1-2	132		4/8	2.210	1,167	17.680	2,334
Lights-Prof=1	548	1.000			548		
Equipment-Prof=1	600	1.000			600	0	
People-Prof=1	3.0	1.000			240	420	
Sub-total					5,027	420	2,818
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					5,278	441	3,044

Zone 115-223 Sala De Monitoreo Fetal peaks (sensible) in April at 10am, Air Handler 9 (Uma-n2-dil), Group 0, 1.0 x 20.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	8.9	2.210	400	8.840	179
Wall-1-ENE-B-M	14	0.83	6.4	2.000	176	8.000	110
Partition-2-2	54		4/8	2.210	477	17.680	955
Gls-ENE-1-90-Tran	4.2	1.000	1	5.700	22	23.200	97
0%S-0-WS-Solar	4.2	0.700	647	0.716	1,361		
Lights-Prof=1	203	1.000			203		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					3,179	240	1,342
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,338	252	1,449



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	-----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 116-226 Sala De Operaciones De Ginecologia Y peaks (sensible) in April at 3pm, Air Handler 12 (Uma-n2-so-gin), Group 0, 1.0 x 39.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	40	0.50	20.4	2.210	1,800		8.840	353
Partition-1-2	96.8		4/8	2.210	856		17.680	1,711
Lights-Prof=1	399	1.000			399			
Equipment-Prof=1	2,000	1.000			2,000	0		
People-Prof=1	8.0	1.000			640	1,120		
Sub-total					5,695	1,120		2,064
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					5,979	1,176		2,229

Zone 117-227 Filtro peaks (sensible) in April at 3pm, Air Handler 12 (Uma-n2-so-gin), Group 0, 1.0 x 8.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	9	0.50	20.4	2.210	397		8.840	78
Partition-1-2	12.9		4/8	2.210	114		17.680	228
Lights-Prof=1	88	1.000			88			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					779	80		306
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					818	84		330

Zone 118-228 Sala De Legrado peaks (sensible) in April at 3pm, Air Handler 13 (Uma-n2-legrado), Group 0, 1.0 x 24.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	24	0.50	20.4	2.210	1,087		8.840	213
Partition-1-2	79.6		4/8	2.210	704		17.680	1,407
Lights-Prof=1	241	1.000			241			
Equipment-Prof=1	2,000	1.000			2,000	0		
People-Prof=1	8.0	1.000			640	1,120		
Sub-total					4,672	1,120		1,620
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,905	1,176		1,750

Zone 119-229 Cuarto Técnico peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	10	0.50	22.2	2.210	495		6.630	67
Partition-1-2	13.7		4/8	2.210	121		17.680	242
Lights-Prof=1	101	1.000			101			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			81	81		
Sub-total					2,298	81		309



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,413	85		334

Zone 120-231 Filtro peaks (sensible) in April at 3pm, Air Handler 15 (Uma-n2-so-cirugía), Group 0, 1.0 x 4.5, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	5	0.50	20.4	2.210	203		8.840	40
Partition-1-2	34		4/8	2.210	301		17.680	601
Lights-Prof=1	45	1.000			45			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	0.5	1.000			36	36		
Sub-total					685	36		641
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					719	38		692

Zone 121-233 Sala De Inducción Anestésica peaks (sensible) in April at 3pm, Air Handler 14 (Uma-n2-induc), Group 0, 1.0 x 27.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	27	0.50	20.4	2.210	1,218		8.840	239
Partition-1-2	83.2		4/8	2.210	735		17.680	1,471
Lights-Prof=1	270	1.000			270			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			140	90		
Sub-total					2,963	90		1,710
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,112	94		1,846

Zone 122-234 Sala De Operaciones General peaks (sensible) in December at 7pm, Air Handler 15 (Uma-n2-so-cirugía), Group 0, 1.0 x 40.1, Construction Type: 1 (Light)

Partition-1-2	96		4/8	2.210	849		17.680	1,697
Lights-Prof=1	401	1.000			401			
Equipment-Prof=1	2,000	1.000			2,000	0		
People-Prof=1	8.0	1.000			640	1,120		
Sub-total					3,890	1,120		1,697
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					4,084	1,176		1,833

Zone 123-235 Almace De Medic peaks (sensible) in April at 3pm, Air Handler 14 (Uma-n2-induc), Group 0, 1.0 x 6.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	6	0.50	20.4	2.210	275		8.840	54
Partition-1-2	40.8		4/8	2.210	361		17.680	721
Lights-Prof=1	61	1.000			61			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			80	80		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					1,077	80		775
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,131	84		837

Zone 124-236 Corredor Rigido peaks (sensible) in April at 3pm, Air Handler 14 (Uma-n2-induc), Group 0, 1.0 x 105.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	105	0.50	20.4	2.210	4,754		8.840	932
Partition-1-2	259.2		4/8	2.210	2,291		17.680	4,583
Lights-Prof=1	1,054	1.000			1,054			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	8.0	1.000			600	600		
Sub-total					8,900	600		5,514
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					9,345	630		5,956

Zone 125-236.1 Almacen De Insumos peaks (sensible) in April at 3pm, Air Handler 14 (Uma-n2-induc), Group 0, 1.0 x 8.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	9	0.50	20.4	2.210	392		8.840	77
Partition-1-2	11.8		4/8	2.210	104		17.680	209
Lights-Prof=1	87	1.000			87			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					764	80		286
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					802	84		308

Zone 126-237 Sala De Recuperación Post Anestésica peaks (sensible) in April at 3pm, Air Handler 24 (Uma-n2-recup), Group 0, 1.0 x 102.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	103	0.50	20.4	2.210	4,642		8.840	910
Partition-1-2	176.8		4/8	2.210	1,563		17.680	3,126
Lights-Prof=1	1,029	1.000			1,029			
Equipment-Prof=1	1,600	1.000			1,600	0		
People-Prof=1	6.0	1.000			420	270		
Sub-total					9,254	270		4,035
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					9,716	284		4,358

Zone 127-238 Cuarto Técnico peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	10	0.50	22.2	2.210	500		6.630	68
Partition-1-2	55.6		4/8	2.210	492		17.680	983
Lights-Prof=1	102	1.000			102			
Equipment-Prof=1	1,500	1.000			1,500	0		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	1.0	1.000			82	82		
Sub-total					2,676	82		1,051
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,809	86		1,135

Zone 128-247 Estar De Personal peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	14	0.50	20.4	2.210	632		6.630	93
Partition-1-2	76.4		4/8	2.210	675		17.680	1,351
Lights-Prof=1	140	1.000			140			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	7.0	1.000			560	560		
Sub-total					2,207	560		1,444
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,317	588		1,559

Zone 129-249 Control peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 4.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	5	0.50	20.4	2.210	221		6.630	32
Partition-1-2	36		4/8	2.210	318		17.680	636
Lights-Prof=1	49	1.000			49			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					968	80		669
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,017	84		722

Zone 130-250 Coordinación De Enfermeria peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	20.4	2.210	546		6.630	80
Partition-1-2	57.2		4/8	2.210	506		17.680	1,011
Lights-Prof=1	121	1.000			121			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					1,922	360		1,092
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,019	378		1,179

Zone 131-251 Jefatura Secretaria peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	16	0.50	20.4	2.210	717		6.630	105
Partition-1-2	68.8		4/8	2.210	608		17.680	1,216



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	159	1.000			159			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					2,234	120		1,322
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,346	126		1,428

Zone 132-252 Sala De Reuniones peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	20.4	2.210	555		6.630	82
Partition-1-2	56.4		4/8	2.210	499		17.680	997
Lights-Prof=1	123	1.000			123			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	6.0	1.000			480	480		
Sub-total					1,956	480		1,079
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,054	504		1,165

Zone 133-253 Preparación Y Empaque peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 1.0 x 29.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	29	0.50	20.4	2.210	1,326		8.840	260
Partition-1-2	86.8		4/8	2.210	767		17.680	1,535
Lights-Prof=1	294	1.000			294			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	4.0	1.000			280	180		
Sub-total					4,168	180		1,795
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,376	189		1,938

Zone 134-254 Jefatura peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 11.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	11	0.50	20.4	2.210	505		6.630	74
Partition-1-2	56		4/8	2.210	495		17.680	990
Lights-Prof=1	112	1.000			112			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,637	180		1,064
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,719	189		1,149

Zone 135-255 Descontaminación Y Desinfección peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 29.7 x 1.0, Construction Type: 1 (Light)



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Roof-1-1-Susp.C-L	30	0.50	20.4	2.210	1,340		8.840	263
Partition-1-2	102		4/8	2.210	902		17.680	1,803
Lights-Prof=1	297	1.000			297			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	4.0	1.000			280	180		
Sub-total					4,318	180		2,066
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,534	189		2,231

Zone 136-256 Esterilización peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 1.0 x 30.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	31	0.50	20.4	2.210	1,389		8.840	272
Partition-1-2	88.8		4/8	2.210	785		17.680	1,570
Lights-Prof=1	308	1.000			308			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	4.0	1.000			280	180		
Sub-total					4,262	180		1,842
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,475	189		1,990

Zone 137-257 Almacen De Material Esteril peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 1.0 x 40.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	40	0.50	20.4	2.210	1,809		8.840	354
Partition-1-2	124		4/8	2.210	1,096		17.680	2,192
Lights-Prof=1	401	1.000			401			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					4,876	45		2,547
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					5,120	47		2,751

Zone 138-258 Esclusa peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 1.0 x 5.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	6	0.50	20.4	2.210	266		8.840	52
Partition-1-2	40.4		4/8	2.210	357		17.680	714
Lights-Prof=1	59	1.000			59			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					852	45		766
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					895	47		828



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 139-260 Entrega De Material Esteril peaks (sensible) in April at 3pm, Air Handler 16 (Uma-n2-so-est), Group 0, 1.0 x 7.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	7	0.50	20.4	2.210	320	8.840	63
Partition-1-2	43.2		4/8	2.210	382	17.680	764
Lights-Prof=1	71	1.000			71		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	1.0	1.000			70	45	
Sub-total					1,143	45	827
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,200	47	893

Zone 140-269 Unidad De Logistica peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 30.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	31	0.50	19.4	2.210	1,314	6.630	203
Wall-1-ENE-B-M	20	0.83	8.3	2.000	335	6.000	121
Wall-2-NNW-B-M	16	0.83	6.1	2.000	197	6.000	97
Partition-3-2	44.4		4/8	2.210	392	17.680	785
Gls-ENE-1-90-Tran	3.4	1.000	5	5.700	102	17.400	58
0%S-0-WS-Solar	3.4	0.700	638	0.239	359		
Gls-NNW-1-90-Tran	4.6	1.000	5	5.700	140	17.400	80
0%S-0-WS-Solar	4.6	0.700	481	0.833	1,296		
Lights-Prof=1	307	1.000			307		
Equipment-Prof=1	1,200	1.000			1,200	0	
People-Prof=1	6.0	1.000			450	360	
Sub-total					6,092	360	1,345
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					6,397	378	1,453

Zone 141-270 Unidad De Personal peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 30.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	30	0.50	19.4	2.210	1,293	6.630	200
Wall-1-NNW-B-M	14	0.83	6.1	2.000	172	6.000	85
Partition-2-2	67.6		4/8	2.210	598	17.680	1,195
Gls-NNW-1-90-Tran	6.3	1.000	5	5.700	191	17.400	110
0%S-0-WS-Solar	6.3	0.700	481	0.833	1,767		
Lights-Prof=1	301	1.000			301		
Equipment-Prof=1	1,500	1.000			1,500	0	
People-Prof=1	7.0	1.000			525	420	
Sub-total					6,346	420	1,589
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					6,663	441	1,716

Zone 142-271 Unidad De Personal peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 30.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	30	0.50	19.4	2.210	1,293	6.630	200
Wall-1-NNW-B-M	14	0.83	6.1	2.000	172	6.000	85
Partition-2-2	67.6		4/8	2.210	598	17.680	1,195
Gls-NNW-1-90-Tran	6.3	1.000	5	5.700	191	17.400	110



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
0%S-0-WS-Solar	6.3	0.700	481	0.833	1,767			
Lights-Prof=1	301	1.000			301			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	7.0	1.000			525	420		
Sub-total					6,346	420		1,589
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					6,663	441		1,716

Zone 143-272 Secretaria peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 24.5, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	19.4	2.210	1,052		6.630	162
Wall-1-NNW-B-M	12	0.83	6.1	2.000	145		6.000	71
Partition-2-2	63.6		4/8	2.210	562		17.680	1,124
Gls-NNW-1-90-Tran	4.9	1.000	5	5.700	148		17.400	85
0%S-0-WS-Solar	4.9	0.700	481	0.833	1,374			
Lights-Prof=1	245	1.000			245			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	6.0	1.000			450	360		
Sub-total					4,577	360		1,444
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,806	378		1,559

Zone 144-273 Unidad De Gestion De La Calidad peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 24.5, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	19.4	2.210	1,052		6.630	162
Wall-1-NNW-B-M	10	0.83	6.1	2.000	117		6.000	58
Partition-2-2	63.6		4/8	2.210	562		17.680	1,124
Gls-NNW-1-90-Tran	5.2	1.000	5	5.700	157		17.400	90
0%S-0-WS-Solar	5.2	0.700	481	0.833	1,453			
Lights-Prof=1	245	1.000			245			
Equipment-Prof=1	900	1.000			900	0		
People-Prof=1	5.0	1.000			375	300		
Sub-total					4,862	300		1,435
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					5,105	315		1,550

Zone 145-274 Secretaria peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	19.4	2.210	644		6.630	99
Wall-1-NNW-B-M	7	0.83	6.1	2.000	82		6.000	41
Partition-2-2	57.2		4/8	2.210	506		17.680	1,011
Gls-NNW-1-90-Tran	3.6	1.000	5	5.700	110		17.400	63
0%S-0-WS-Solar	3.6	0.700	481	0.833	1,021			
Lights-Prof=1	150	1.000			150			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			225	180		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					3,338	180		1,215
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,505	189		1,312

Zone 146-275 Dirección General peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 23.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	24	0.50	19.4	2.210	1,027		6.630	158
Wall-1-NNW-B-M	13	0.83	6.1	2.000	157		6.000	78
Wall-2-WSW-B-M	16	0.83	2.1	2.000	71		6.000	98
Partition-3-2	49.6		4/8	2.210	438		17.680	877
Gls-NNW-1-90-Tran	5.9	1.000	5	5.700	178		17.400	102
0%S-0-WS-Solar	5.9	0.700	481	0.833	1,649			
Lights-Prof=1	239	1.000			239			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	9.0	1.000			675	540		
Sub-total					5,034	540		1,314
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					5,286	567		1,419

Zone 147-277 Unidad De Asesoria Juridica peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.5, Construction Type: 1 (Light)

Wall-1-WSW-B-M	10	0.83	6.0	2.000	122		6.000	61
Partition-2-2	36.8		4/8	2.210	325		17.680	651
Gls-WSW-1-90-Tran	2.2	1.000	6	5.700	70		17.400	39
0%S-0-WS-Solar	2.2	0.700	690	0.839	907			
Lights-Prof=1	95	1.000			95			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,045	180		751
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,147	189		811

Zone 148-279 Oficina De Planeamiento peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 30.6, Construction Type: 1 (Light)

Wall-2-WSW-B-M	13	0.83	6.0	2.000	151		6.000	76
Partition-1-2	30.6		4/8	2.210	271		17.680	541
Partition-3-2	77.2		4/8	2.210	682		17.680	1,365
Gls-WSW-1-90-Tran	3.4	1.000	6	5.700	106		17.400	58
0%S-0-WS-Solar	3.4	0.700	690	0.839	1,361			
Lights-Prof=1	306	1.000			306			
Equipment-Prof=1	900	1.000			900	0		
People-Prof=1	5.0	1.000			375	300		
Sub-total					4,152	300		2,040
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					4,359	315		2,203



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	-----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 149-280 Unidad De Seguros peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 26.8 x 1.0, Construction Type: 1 (Light)

Partition-1-2	26.8		4/8	2.210	237		17.680	474
Partition-2-2	89.2		4/8	2.210	789		17.680	1,577
Lights-Prof=1	268	1.000			268			
Equipment-Prof=1	900	1.000			900	0		
People-Prof=1	5.0	1.000			375	300		
Sub-total					2,568	300		2,051
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,697	315		2,215

Zone 150-281 Sala De Espera peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 24.3, Construction Type: 1 (Light)

Partition-1-2	24.3		4/8	2.210	215		17.680	430
Partition-2-2	86		4/8	2.210	760		17.680	1,520
Lights-Prof=1	243	1.000			243			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	12.0	1.000			960	960		
Sub-total					2,378	960		1,950
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,497	1,008		2,106

Zone 151-282 Tramite Documentario peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.4, Construction Type: 1 (Light)

Partition-1-1	9.4		4/8	2.360	89		18.880	177
Partition-2-2	50.4		4/8	2.210	446		17.680	891
Lights-Prof=1	94	1.000			94			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	0.9	1.000			70	56		
Sub-total					999	56		1,069
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,049	59		1,154

Zone 152-283 Sala De Usos Multiples peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 24.3, Construction Type: 1 (Light)

Partition-1-1	24.3		4/8	2.360	229		18.880	459
Partition-2-2	81.2		4/8	2.210	718		17.680	1,436
Lights-Prof=1	243	1.000			243			
Equipment-Prof=1	500	1.000			500	0		
People-Prof=1	21.0	1.000			1,470	945		
Sub-total					3,160	945		1,894



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,318	992		2,046

Zone 153-284 Epidemiología Y Salud Ocupacional peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 36.7, Construction Type: 1 (Light)

Partition-1-1	36.7		4/8	2.360	346		18.880	693
Partition-2-2	100		4/8	2.210	884		17.680	1,768
Lights-Prof=1	367	1.000			367			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	12.0	1.000			960	960		
Sub-total					3,757	960		2,461
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,945	1,008		2,658

Zone 154-291 Sala De Espera Centro Obstetrico peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 48.2, Construction Type: 1 (Light)

Partition-1-1	48.2		4/8	2.360	455		18.880	910
Partition-2-2	147.6		4/8	2.210	1,305		17.680	2,610
Lights-Prof=1	482	1.000			482			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	30.0	1.000			2,400	2,400		
Sub-total					4,842	2,400		3,520
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					5,084	2,520		3,801

Zone 155-192 Sala De Telecom peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Partition-1-1	12		4/8	2.360	113		18.880	227
Partition-2-2	60.8		4/8	2.210	537		17.680	1,075
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.2	1.000			96	96		
Sub-total					2,367	96		1,302
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,485	101		1,406

Zone 156-194 Sala De Refracción peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 26.4, Construction Type: 1 (Light)

Partition-1-1	26.4		4/8	2.360	249		18.880	498
Partition-2-2	82.4		4/8	2.210	728		17.680	1,457
Lights-Prof=1	264	1.000			264			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	4.0	1.000			320	320		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					2,162	320		1,955
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,270	336		2,112

Zone 157-195 Sala De Ecografia Obstetrica peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.8, Construction Type: 1 (Light)

Partition-1-1	15.8		4/8	2.360	149		18.880	298
Partition-2-2	64.8		4/8	2.210	573		17.680	1,146
Lights-Prof=1	158	1.000			158			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,420	240		1,444
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,491	252		1,559

Zone 158-197 Recepción Y Control peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 11.5, Construction Type: 1 (Light)

Partition-1-1	11.5		4/8	2.360	109		18.880	217
Partition-2-2	64.8		4/8	2.210	573		17.680	1,146
Lights-Prof=1	115	1.000			115			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,336	240		1,363
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,403	252		1,472

Zone 159-1104 Recepc Uuss Y Hemoc peaks (sensible) in December at 7pm, Air Handler 17 (Uma-n2-lab. InmunoheMt.), Group 0, 1.0 x 10.8, Construction Type: 1 (Light)

Partition-1-1	10.8		4/8	2.360	102		18.880	204
Partition-2-2	53.2		4/8	2.210	470		17.680	941
Lights-Prof=1	108	1.000			108			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					1,355	60		1,144
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,423	63		1,236

Zone 160-2015 Sala De Electro Cardiografia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.2, Construction Type: 1 (Light)

Partition-1-1	14.2		4/8	2.360	134		18.880	268
Partition-2-2	61.2		4/8	2.210	541		17.680	1,082
Lights-Prof=1	142	1.000			142			
Equipment-Prof=1	300	1.000			300	0		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,357	240		1,350
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,425	252		1,458

Zone 161-2106 Sala De Holter Y Mapa peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 11.2, Construction Type: 1 (Light)

Partition-1-1	11.2		4/8	2.360	106		18.880	211
Partition-2-2	53.6		4/8	2.210	474		17.680	948
Lights-Prof=1	112	1.000			112			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,232	240		1,159
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,293	252		1,252

Zone 162-2107 Sala De Espirometria peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 11.8, Construction Type: 1 (Light)

Partition-1-1	11.8		4/8	2.360	111		18.880	223
Partition-2-2	55.2		4/8	2.210	488		17.680	976
Lights-Prof=1	118	1.000			118			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,257	240		1,199
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,320	252		1,295

Zone 163-2110 Laboratorio Inmunoemta peaks (sensible) in December at 7pm, Air Handler 17 (Uma-n2-lab. Inmunoemta.), Group 0, 1.0 x 22.7, Construction Type: 1 (Light)

Partition-1-1	22.7		4/8	2.360	214		18.880	429
Partition-2-2	76.4		4/8	2.210	675		17.680	1,351
Lights-Prof=1	227	1.000			227			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	4.0	1.000			320	560		
Sub-total					2,637	560		1,779
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,768	588		1,922

Zone 164-2111 Esterilización Y Productos Biologic peaks (sensible) in December at 7pm, Air Handler 17 (Uma-n2-lab. Inmunoemta.), Group 0, 1.0 x 12.2, Construction Type: 1 (Light)

Partition-1-1	12.2		4/8	2.360	115		18.880	230
Partition-2-2	60		4/8	2.210	530		17.680	1,061



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	122	1.000			122			
Equipment-Prof=1	400	1.000			400	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					1,243	60		1,291
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,305	63		1,394

Zone 165-2112 Control De Calidad peaks (sensible) in December at 7pm, Air Handler 17 (Uma-n2-lab. Inmunohemt.), Group 0, 1.0 x 12.2, Construction Type: 1 (Light)

Partition-1-1	12.2		4/8	2.360	115		18.880	230
Partition-2-2	60		4/8	2.210	530		17.680	1,061
Lights-Prof=1	122	1.000			122			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					1,143	60		1,291
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,200	63		1,394

Zone 166-2114 Almacen Unidades De Sangre peaks (sensible) in December at 7pm, Air Handler 17 (Uma-n2-lab. Inmunohemt.), Group 0, 1.0 x 24.0, Construction Type: 1 (Light)

Partition-1-1	24		4/8	2.360	227		18.880	453
Partition-2-2	78.8		4/8	2.210	697		17.680	1,393
Lights-Prof=1	240	1.000			240			
Equipment-Prof=1	1,000	1.000			1,000	0		
People-Prof=1	1.0	1.000			70	45		
Sub-total					2,233	45		1,846
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,345	47		1,994

Zone 167-2118 Jefatura peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Partition-1-1	12		4/8	2.360	113		18.880	227
Partition-2-2	55.6		4/8	2.210	492		17.680	983
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,250	180		1,210
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,312	189		1,306

Zone 168-2119 Promoción De Donación De Sangre peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 16.3, Construction Type: 1 (Light)



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-1-1	16.3		4/8	2.360	154		18.880	308
Partition-2-2	66.4		4/8	2.210	587		17.680	1,174
Lights-Prof=1	163	1.000			163			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	7.0	1.000			560	560		
Sub-total					1,764	560		1,482
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,852	588		1,600

Zone 169-21120 Centro Computo li peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.8, Construction Type: 1 (Light)

Partition-1-1	12.8		4/8	2.360	121		18.880	242
Partition-2-2	58.8		4/8	2.210	520		17.680	1,040
Lights-Prof=1	128	1.000			128			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	5.0	1.000			375	300		
Sub-total					2,644	300		1,281
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,776	315		1,384

Zone 170-21121 Sala De Control Elect. peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 6.3, Construction Type: 1 (Light)

Partition-1-1	6.3		4/8	2.360	59		18.880	119
Partition-2-2	42.8		4/8	2.210	378		17.680	757
Lights-Prof=1	63	1.000			63			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					2,076	60		876
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,180	63		946

Zone 171-2122 Sala De Administr. peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.4, Construction Type: 1 (Light)

Partition-1-1	9.4		4/8	2.360	89		18.880	177
Partition-2-2	49.6		4/8	2.210	438		17.680	877
Lights-Prof=1	94	1.000			94			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,371	120		1,054
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,440	126		1,139



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 172-2123 Centro De Datos peaks (sensible) in December at 7pm, Air Handler 18 (N2 Unidad Precisión), Group 0, 1.0 x 38.5, Construction Type: 1 (Light)

Partition-1-1	38.5		4/8	2.360	363		18.880	727
Partition-2-2	104.4		4/8	2.210	923		17.680	1,846
Lights-Prof=1	385	1.000			385			
Equipment-Prof=1	20,000	1.000			20,000	0		
People-Prof=1	1.0	1.000			75	60		
Sub-total					21,746	60		2,573
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					22,834	63		2,778

Zone 173-21125 Jefatura peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Partition-1-1	12		4/8	2.360	113		18.880	227
Partition-2-2	55.6		4/8	2.210	492		17.680	983
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,250	180		1,210
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,312	189		1,306

Zone 174-2126 Central De Comunic peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 9.1, Construction Type: 1 (Light)

Partition-1-1	9.1		4/8	2.360	86		18.880	172
Partition-2-2	48.4		4/8	2.210	428		17.680	856
Lights-Prof=1	91	1.000			91			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	2.0	1.000			150	120		
Sub-total					1,055	120		1,028
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,107	126		1,110

Zone 175-2128 Oficina De Informatica peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 24.1, Construction Type: 1 (Light)

Partition-1-1	24.1		4/8	2.360	228		18.880	455
Partition-2-2	85.6		4/8	2.210	757		17.680	1,513
Lights-Prof=1	241	1.000			241			
Equipment-Prof=1	1,200	1.000			1,200	0		
People-Prof=1	4.0	1.000			300	240		
Sub-total					2,725	240		1,968
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,861	252		2,126



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 176-2130 Sala De Telecom lii peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 16.9, Construction Type: 1 (Light)

Partition-1-1	16.9		4/8	2.360	160		18.880	319
Partition-2-2	66		4/8	2.210	583		17.680	1,167
Lights-Prof=1	169	1.000			169			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,492	80		1,486
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,617	84		1,605

Zone 177-2131 Cuarto Tecnico peaks (sensible) in December at 7pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.3, Construction Type: 1 (Light)

Partition-1-1	10.3		4/8	2.360	97		18.880	194
Partition-2-2	52.4		4/8	2.210	463		17.680	926
Lights-Prof=1	103	1.000			103			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			82	82		
Sub-total					2,246	82		1,121
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,358	87		1,211

Zone 178-2134 Sala De Usos Multiples peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 103.4, Construction Type: 1 (Light)

Partition-1-1	103.4		4/8	2.360	976		18.880	1,952
Partition-2-2	168		4/8	2.210	1,485		17.680	2,970
Lights-Prof=1	1,034	1.000			1,034			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	82.0	1.000			5,740	3,690		
Sub-total					9,835	3,690		4,922
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					10,327	3,875		5,316

Zone 179-2140 Sala De Espera peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 376.7, Construction Type: 1 (Light)

Partition-1-1	376.7		4/8	2.360	3,556		18.880	7,112
Partition-2-2	518		4/8	2.210	4,579		17.680	9,158
Lights-Prof=1	3,767	1.000			3,767			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	135.0	1.000			10,800	10,800		
Sub-total					23,302	10,800		16,270
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					24,467	11,340		17,572



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 180-2142 Triage peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.1, Construction Type: 1 (Light)

Wall-3-WSW-B-M	8	0.83	6.0	2.000	99	6.000	50
Partition-1-1	13.1		4/8	2.360	124	18.880	247
Partition-2-2	49.6		4/8	2.210	438	17.680	877
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021		
Lights-Prof=1	131	1.000			131		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					2,432	240	1,218
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,554	252	1,315

Zone 181-2143 Consejeria Y Prevención Del Cancer peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.1, Construction Type: 1 (Light)

Wall-3-WSW-B-M	11	0.83	6.0	2.000	128	6.000	64
Partition-1-1	14.1		4/8	2.360	133	18.880	266
Partition-2-2	51.6		4/8	2.210	456	17.680	912
Gls-WSW-1-90-Tran	2.1	1.000	6	5.700	66	17.400	37
0%S-0-WS-Solar	2.1	0.700	690	0.839	851		
Lights-Prof=1	141	1.000			141		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					2,315	240	1,279
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,431	252	1,382

Zone 182-2144 At Int Y Consejeria peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-3-WSW-B-M	9	0.83	6.0	2.000	113	6.000	57
Partition-1-1	14.6		4/8	2.360	138	18.880	276
Partition-2-2	50.8		4/8	2.210	449	17.680	898
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021		
Lights-Prof=1	146	1.000			146		
Equipment-Prof=1	300	1.000			300	0	
People-Prof=1	1.5	1.000			4	117	
Sub-total					2,251	117	1,275
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,363	123	1,376

Zone 183-2145 Consultorio De Nutrición peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-3-WSW-B-M	9	0.83	6.0	2.000	113	6.000	57
Partition-1-1	14.6		4/8	2.360	138	18.880	276
Partition-2-2	50.8		4/8	2.210	449	17.680	898
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79	17.400	44



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,486	240		1,275
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,611	252		1,376

Zone 184-2146 Consultorio De Odontologia peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 38.7, Construction Type: 1 (Light)

Wall-3-WSW-B-M	30	0.83	6.0	2.000	360		6.000	180
Partition-1-1	38.7		4/8	2.360	365		18.880	731
Partition-2-2	99.6		4/8	2.210	880		17.680	1,761
Gls-WSW-1-90-Tran	7.1	1.000	6	5.700	224		17.400	124
0%S-0-WS-Solar	7.1	0.700	690	0.839	2,892			
Lights-Prof=1	387	1.000			387			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					6,849	240		2,796
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					7,191	252		3,020

Zone 185-2148 Consultorio De Psiquiatria peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.5, Construction Type: 1 (Light)

Wall-3-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-1	14.5		4/8	2.360	137		18.880	274
Partition-2-2	51.2		4/8	2.210	453		17.680	905
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	145	1.000			145			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	1.5	1.000			4	116		
Sub-total					2,252	116		1,280
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,365	122		1,382

Zone 186-2149 Consultorio De Psicologia peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 15.3, Construction Type: 1 (Light)

Wall-3-WSW-B-M	10	0.83	6.0	2.000	123		6.000	62
Partition-1-1	15.3		4/8	2.360	144		18.880	289
Partition-2-2	51.2		4/8	2.210	453		17.680	905
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	153	1.000			153			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					2,513	240		1,300
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,639	252		1,404

Zone 187-2151 Consultorio De Neumogolia peaks (sensible) in January at 5pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Wall-3-WSW-B-M	9	0.83	6.0	2.000	113		6.000	57
Partition-1-1	14.6		4/8	2.360	138		18.880	276
Partition-2-2	50.8		4/8	2.210	449		17.680	898
Gls-WSW-1-90-Tran	2.5	1.000	6	5.700	79		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.839	1,021			
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,486	240		1,275
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,611	252		1,376

Zone 188-2157 Consultorio De Cirugia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.1, Construction Type: 1 (Light)

Partition-1-1	17.1		4/8	2.360	161		18.880	323
Partition-2-2	69.6		4/8	2.210	615		17.680	1,231
Lights-Prof=1	171	1.000			171			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,488	240		1,553
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,562	252		1,678

Zone 189-2159 Topico De Procedimientos peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.1, Construction Type: 1 (Light)

Partition-1-1	17.1		4/8	2.360	161		18.880	323
Partition-2-2	73.6		4/8	2.210	651		17.680	1,301
Lights-Prof=1	171	1.000			171			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,673	240		1,624
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					1,757	252		1,754

Zone 190-2160 Consultorio De Medicina Interna peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.1, Construction Type: 1 (Light)

Partition-1-1	17.1		4/8	2.360	161		18.880	323
---------------	------	--	-----	-------	-----	--	--------	-----



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-2-2	69.6		4/8	2.210	615		17.680	1,231
Lights-Prof=1	171	1.000			171			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,488	240		1,553
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,562	252		1,678

Zone 191-2161 Consultorio De Oftalmologia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 18.0, Construction Type: 1 (Light)

Partition-1-1	18		4/8	2.360	170		18.880	340
Partition-2-2	70.8		4/8	2.210	626		17.680	1,252
Lights-Prof=1	180	1.000			180			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,516	240		1,592
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,592	252		1,719

Zone 192-2162 Consultorio De Cardiologia peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 17.1, Construction Type: 1 (Light)

Partition-1-1	17.1		4/8	2.360	161		18.880	323
Partition-2-2	69.2		4/8	2.210	612		17.680	1,223
Lights-Prof=1	171	1.000			171			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,484	240		1,546
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,558	252		1,670

Zone 193-2163 Tele Consultorio peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 20.5, Construction Type: 1 (Light)

Partition-1-1	20.5		4/8	2.360	194		18.880	387
Partition-2-2	74.4		4/8	2.210	658		17.680	1,315
Lights-Prof=1	205	1.000			205			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	7.0	1.000			560	560		
Sub-total					2,216	560		1,702
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,327	588		1,839

Zone 194-2164 Oficina De Estadistica peaks (sensible) in December at 7pm, Air Handler 1 (Fc), Group 0, 1.0 x 27.4, Construction Type: 1 (Light)



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Partition-1-1	27.4		4/8	2.360	259		18.880	517
Partition-2-2	84		4/8	2.210	743		17.680	1,485
Lights-Prof=1	274	1.000			274			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,815	240		2,002
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,906	252		2,163

Zone 195-301 Habitación peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	20.4	2.210	659		6.630	97
Partition-1-2	62.4		4/8	2.210	552		17.680	1,103
Lights-Prof=1	146	1.000			146			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					1,716	160		1,200
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,802	168		1,296

Zone 196-303 Habitación peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 14.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	14	0.50	20.4	2.210	645		6.630	95
Partition-1-2	62		4/8	2.210	548		17.680	1,096
Lights-Prof=1	143	1.000			143			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					1,696	160		1,191
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,781	168		1,286

Zone 197-306 Cocina Comedor peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 38.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	39	0.50	20.4	2.210	1,746		6.630	257
Partition-1-2	122		4/8	2.210	1,078		17.680	2,157
Lights-Prof=1	387	1.000			387			
Equipment-Prof=1	500	1.000			500	0		
People-Prof=1	6.0	1.000			480	480		
Sub-total					4,191	480		2,414
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,401	504		2,607



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 198-307 Estación De Enfermeras peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 52.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	53	0.50	19.4	2.210	2,259	6.630	349
Wall-2-NNW-B-M	25	0.83	6.1	2.000	308	6.000	152
Partition-1-2	113.6		4/8	2.210	1,004	17.680	2,008
Gls-NNW-1-90-Tran	6.7	1.000	5	5.700	203	17.400	117
0%S-0-WS-Solar	6.7	0.700	481	0.833	1,885		
Lights-Prof=1	526	1.000			526		
Equipment-Prof=1	600	1.000			600	0	
People-Prof=1	3.0	1.000			225	180	
Sub-total					7,011	180	2,626
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					7,361	189	2,836

Zone 199-312 Topico De Procedimientos peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 18.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	19	0.50	20.4	2.210	844	6.630	124
Partition-1-2	70.8		4/8	2.210	626	17.680	1,252
Lights-Prof=1	187	1.000			187		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					2,266	160	1,376
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					2,380	168	1,486

Zone 200-316 Sala Hosp Adultos Varones peaks (sensible) in May at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 22.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	23	0.50	19.4	2.210	979	8.840	202
Wall-2-NNW-B-M	12	0.83	6.1	2.000	144	8.000	95
Partition-1-2	65.2		4/8	2.210	576	17.680	1,153
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102	23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942		
Lights-Prof=1	228	1.000			228		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	3.0	1.000			240	240	
Sub-total					3,662	240	1,527
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,845	252	1,649

Zone 201-324 Sala De Espera Hosp Adulto peaks (sensible) in January at 4pm, Air Handler 1 (Fc), Group 0, 1.0 x 40.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	40	0.50	18.2	2.210	1,617	6.630	267
Wall-2-WSW-B-M	28	0.83	5.2	2.000	292	6.000	170
Partition-1-2	76.4		4/8	2.210	675	17.680	1,351
Gls-WSW-1-90-Tran	8.8	1.000	7	5.700	327	17.400	153
0%S-0-WS-Solar	8.8	0.700	690	0.801	3,412		
Lights-Prof=1	402	1.000			402		
Equipment-Prof=1	200	1.000			200	0	



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	12.0	1.000			960	960		
Sub-total					7,886	960		1,941
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					8,280	1,008		2,096

Zone 202-325 Estar De Personal Hombres peaks (sensible) in January at 4pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	18.2	2.210	523		6.630	86
Wall-2-WSW-B-M	9	0.83	5.2	2.000	98		6.000	57
Partition-1-2	46.8		4/8	2.210	414		17.680	827
Gls-WSW-1-90-Tran	2.5	1.000	7	5.700	94		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.801	975			
Lights-Prof=1	130	1.000			130			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	7.0	1.000			490	315		
Sub-total					2,923	315		1,014
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,069	331		1,095

Zone 203-326 Estar De Personal Mujeres peaks (sensible) in January at 4pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	18.2	2.210	523		6.630	86
Wall-2-WSW-B-M	9	0.83	5.2	2.000	98		6.000	57
Partition-1-2	46.8		4/8	2.210	414		17.680	827
Gls-WSW-1-90-Tran	2.5	1.000	7	5.700	94		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.801	975			
Lights-Prof=1	130	1.000			130			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	7.0	1.000			490	315		
Sub-total					2,923	315		1,014
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,069	331		1,095

Zone 204-327 Oficina De Control Nutricional peaks (sensible) in January at 4pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.5, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	18.2	2.210	503		6.630	83
Wall-2-WSW-B-M	9	0.83	5.2	2.000	94		6.000	54
Partition-1-2	46.4		4/8	2.210	410		17.680	820
Gls-WSW-1-90-Tran	2.5	1.000	7	5.700	94		17.400	44
0%S-0-WS-Solar	2.5	0.700	690	0.801	975			
Lights-Prof=1	125	1.000			125			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,725	180		1,002



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,861	189		1,082

Zone 205-331 Sala Hospit Adulto Mujeres peaks (sensible) in April at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 24.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	20.4	2.210	1,119		8.840	219
Wall-2-ENE-B-M	11	0.83	8.9	2.000	204		8.000	92
Partition-1-2	76.4		4/8	2.210	675		17.680	1,351
Gls-ENE-1-90-Tran	2.5	1.000	6	5.700	85		23.200	58
0%S-0-WS-Solar	2.5	0.700	647	0.239	273			
Lights-Prof=1	248	1.000			248			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,214	160		1,720
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,374	168		1,858

Zone 206-333 Sala Hospit Adulto Mujeres peaks (sensible) in April at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 24.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	20.4	2.210	1,119		8.840	219
Wall-2-ENE-B-M	11	0.83	8.9	2.000	204		8.000	92
Partition-1-2	76.4		4/8	2.210	675		17.680	1,351
Gls-ENE-1-90-Tran	2.5	1.000	6	5.700	85		23.200	58
0%S-0-WS-Solar	2.5	0.700	647	0.239	273			
Lights-Prof=1	248	1.000			248			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,214	160		1,720
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,374	168		1,858

Zone 207-334 Sala Hospit Adulto Mujeres peaks (sensible) in April at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 24.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	20.4	2.210	1,119		8.840	219
Wall-2-ENE-B-M	11	0.83	8.9	2.000	204		8.000	92
Partition-1-2	76.4		4/8	2.210	675		17.680	1,351
Gls-ENE-1-90-Tran	2.5	1.000	6	5.700	85		23.200	58
0%S-0-WS-Solar	2.5	0.700	647	0.239	273			
Lights-Prof=1	248	1.000			248			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,214	160		1,720
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,374	168		1,858



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 208-336 Sala De Reuniones peaks (sensible) in April at 10am, Air Handler 1 (Fc), Group 0, 1.0 x 15.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	8.9	2.210	299		6.630	101
Wall-2-ENE-B-M	11	0.83	6.4	2.000	136		6.000	64
Partition-1-2	50		4/8	2.210	442		17.680	884
Gls-ENE-1-90-Tran	2.5	1.000	1	5.700	13		17.400	44
0%S-0-WS-Solar	2.5	0.700	647	0.716	817			
Lights-Prof=1	152	1.000			152			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	8.0	1.000			600	320		
Sub-total					2,660	320		1,093
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,792	336		1,180

Zone 209-337 Jefatura peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 12.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	19.4	2.210	550		6.630	85
Wall-2-NNW-B-M	9	0.83	6.1	2.000	111		6.000	54
Partition-1-2	46.8		4/8	2.210	414		17.680	827
Gls-NNW-1-90-Tran	2.5	1.000	5	5.700	76		17.400	44
0%S-0-WS-Solar	2.5	0.700	481	0.833	707			
Lights-Prof=1	128	1.000			128			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,510	180		1,011
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,636	189		1,091

Zone 210-339 Secretaria peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	11	0.50	20.4	2.210	487		6.630	72
Partition-1-2	54.8		4/8	2.210	484		17.680	969
Lights-Prof=1	108	1.000			108			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					1,605	180		1,040
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,685	189		1,124

Zone 211-344 Topico De Procedimientos Pediatria peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 16.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	17	0.50	20.4	2.210	749		6.630	110
Partition-1-2	66		4/8	2.210	583		17.680	1,167



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Lights-Prof=1	166	1.000			166			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			140	90		
Sub-total					2,088	90		1,277
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,193	94		1,379

Zone 212-345 Sala Hosptt Pediatría Escolar peaks (sensible) in April at 2pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 24.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	20.4	2.210	1,110		8.840	217
Wall-2-ENE-B-M	11	0.83	8.9	2.000	197		8.000	89
Partition-1-2	76		4/8	2.210	672		17.680	1,344
Gls-ENE-1-90-Tran	2.5	1.000	6	5.700	85		23.200	58
0%S-0-WS-Solar	2.5	0.700	647	0.239	273			
Lights-Prof=1	246	1.000			246			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,192	160		1,708
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,352	168		1,845

Zone 213-347 Sala Hosptt Pediatría Escolar peaks (sensible) in April at 2pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 24.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	20.4	2.210	1,110		8.840	217
Wall-2-ENE-B-M	11	0.83	8.9	2.000	197		8.000	89
Partition-1-2	76		4/8	2.210	672		17.680	1,344
Gls-ENE-1-90-Tran	2.5	1.000	6	5.700	85		23.200	58
0%S-0-WS-Solar	2.5	0.700	647	0.239	273			
Lights-Prof=1	246	1.000			246			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,192	160		1,708
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,352	168		1,845

Zone 214-348 Cuarto Tecnico peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	10	0.50	22.2	2.210	510		6.630	69
Partition-1-2	52.4		4/8	2.210	463		17.680	926
Lights-Prof=1	104	1.000			104			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			83	83		
Sub-total					2,661	83		995
Safety factors:					+5%	+5%		+8%



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Total w/ safety factors:					2,794	87		1,075

Zone 215-347 Sala De Telecom peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 10.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	10	0.50	22.2	2.210	510		6.630	69
Partition-1-2	67.6		4/8	2.210	598		17.680	1,195
Lights-Prof=1	104	1.000			104			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.0	1.000			83	83		
Sub-total					2,795	83		1,264
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,935	87		1,365

Zone 216-352 Estación De Enfermeria peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 20.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	20.4	2.210	902		6.630	133
Partition-1-2	146.4		4/8	2.210	1,294		17.680	2,588
Lights-Prof=1	200	1.000			200			
Equipment-Prof=1	300	1.000			300	0		
People-Prof=1	3.0	1.000			225	180		
Sub-total					2,921	180		2,721
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,067	189		2,939

Zone 217-353 Atención Al Recien Nacido Sano peaks (sensible) in January at 3pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 13.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	19.2	2.210	552		8.840	115
Wall-2-SSE-B-M	12	0.83	8.2	2.000	193		8.000	95
Partition-1-2	42.4		4/8	2.210	375		17.680	750
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	493	0.342	396			
Lights-Prof=1	130	1.000			130			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			140	90		
Sub-total					2,361	90		1,037
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,479	94		1,120

Zone 218-354 Atención Recién Nacido Patologico peaks (sensible) in January at 3pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 16.3, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	16	0.50	19.2	2.210	692		8.840	144
Wall-2-SSE-B-M	10	0.83	8.2	2.000	161		8.000	79
Partition-1-2	52.8		4/8	2.210	467		17.680	934
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
0%S-0-WS-Solar	3.4	0.700	493	0.342	396			
Lights-Prof=1	163	1.000			163			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	3.0	1.000			210	135		
Sub-total					2,813	135		1,234
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,954	142		1,333

Zone 219-357 Lactario peaks (sensible) in April at 3pm, Air Handler 1 (Fc), Group 0, 1.0 x 10.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	11	0.50	20.4	2.210	478		6.630	70
Partition-1-2	54.4		4/8	2.210	481		17.680	962
Lights-Prof=1	106	1.000			106			
Equipment-Prof=1	500	1.000			500	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					1,805	240		1,032
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,895	252		1,115

Zone 220-358 Sala De Juegos peaks (sensible) in May at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 13.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	19.4	2.210	576		6.630	89
Wall-2-NNW-B-M	10	0.83	6.1	2.000	120		6.000	59
Partition-1-2	47.2		4/8	2.210	417		17.680	834
Gls-NNW-1-90-Tran	2.5	1.000	5	5.700	76		17.400	44
0%S-0-WS-Solar	2.5	0.700	481	0.833	707			
Lights-Prof=1	134	1.000			134			
Equipment-Prof=1	402	1.000			402	0		
People-Prof=1	4.0	1.000			320	320		
Sub-total					2,752	320		1,026
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,890	336		1,109

Zone 221-359 Sala Hosp Pediatria Lactante peaks (sensible) in May at 2pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 13.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	13	0.50	19.4	2.210	567		8.840	117
Wall-2-NNW-B-M	9	0.83	6.1	2.000	116		8.000	76
Partition-1-2	47.2		4/8	2.210	417		17.680	834
Gls-NNW-1-90-Tran	2.5	1.000	5	5.700	76		23.200	58
0%S-0-WS-Solar	2.5	0.700	481	0.833	707			
Lights-Prof=1	132	1.000			132			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,705	240		1,085



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,840	252		1,172

Zone 222-361 Sala Hosp Pediatria Adolesc peaks (sensible) in May at 2pm, Air Handler 27 (Uma-n3-hosp.ped), Group 0, 1.0 x 15.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	19.4	2.210	661		8.840	136
Wall-2-NNW-B-M	9	0.83	6.1	2.000	116		8.000	76
Partition-1-2	47.2		4/8	2.210	417		17.680	834
Gls-NNW-1-90-Tran	2.5	1.000	5	5.700	76		23.200	58
0%S-0-WS-Solar	2.5	0.700	481	0.833	707			
Lights-Prof=1	154	1.000			154			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	3.0	1.000			240	240		
Sub-total					2,821	240		1,105
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,962	252		1,193

Zone 223-365 Esclusa peaks (sensible) in April at 3pm, Air Handler 20 (Uma-n3-aisl.pediat), Group 0, 1.0 x 5.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	5	0.50	20.4	2.210	235		8.840	46
Partition-1-2	36.4		4/8	2.210	322		17.680	644
Lights-Prof=1	52	1.000			52			
Equipment-Prof=1	100	1.000			100	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					788	80		690
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					828	84		745

Zone 224-366 Sala Hosp Pediatria Aislado peaks (sensible) in May at 2pm, Air Handler 20 (Uma-n3-aisl.pediat), Group 0, 1.0 x 15.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	19.4	2.210	661		8.840	136
Wall-2-NNW-B-M	11	0.83	6.1	2.000	140		8.000	92
Partition-1-2	49.2		4/8	2.210	435		17.680	870
Gls-NNW-1-90-Tran	2.5	1.000	5	5.700	76		23.200	58
0%S-0-WS-Solar	2.5	0.700	481	0.833	707			
Lights-Prof=1	154	1.000			154			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	1.0	1.000			80	80		
Sub-total					2,703	80		1,156
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					2,839	84		1,249



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 225-372 Sala Hosp Pediatria Pre Escolar peaks (sensible) in January at 3pm, Air Handler 19 (Uma-n3-hosp), Group 0, 1.0 x 24.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	19.2	2.210	1,056	8.840	220
Wall-2-SSE-B-M	12	0.83	8.2	2.000	193	8.000	95
Partition-1-2	84		4/8	2.210	743	17.680	1,485
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	493	0.342	396		
Lights-Prof=1	249	1.000			249		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,372	160	1,878
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,541	168	2,028

Zone 226-374 Sala Hosp Pediatria Adolesc peaks (sensible) in January at 3pm, Air Handler 19 (Uma-n3-hosp), Group 0, 1.0 x 26.8, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	27	0.50	19.2	2.210	1,137	8.840	237
Wall-2-SSE-B-M	12	0.83	8.2	2.000	193	8.000	95
Partition-1-2	84		4/8	2.210	743	17.680	1,485
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	493	0.342	396		
Lights-Prof=1	268	1.000			268		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,472	160	1,895
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,645	168	2,046

Zone 227-376 Sala Hosp Obstetricia peaks (sensible) in January at 3pm, Air Handler 19 (Uma-n3-hosp), Group 0, 1.0 x 24.9, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	25	0.50	19.2	2.210	1,056	8.840	220
Wall-2-SSE-B-M	12	0.83	8.2	2.000	193	8.000	95
Partition-1-2	84		4/8	2.210	743	17.680	1,485
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	493	0.342	396		
Lights-Prof=1	249	1.000			249		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,372	160	1,878
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,541	168	2,028

Zone 228-378 Sala Hosp Obstetricia peaks (sensible) in January at 3pm, Air Handler 19 (Uma-n3-hosp), Group 0, 1.0 x 25.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	26	0.50	19.2	2.210	1,090	8.840	227
Wall-2-SSE-B-M	12	0.83	8.2	2.000	193	8.000	95
Partition-1-2	82.8		4/8	2.210	732	17.680	1,464
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
0%S-0-WS-Solar	3.4	0.700	493	0.342	396			
Lights-Prof=1	257	1.000			257			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,404	160		1,864
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,574	168		2,013

Zone 229-380 Sala De Monitoreo De Gestante peaks (sensible) in January at 3pm, Air Handler 19 (Uma-n3-hosp), Group 0, 1.0 x 36.6, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	37	0.50	19.2	2.210	1,553		8.840	324
Wall-2-SSE-B-M	13	0.83	8.2	2.000	219		8.000	108
Partition-1-2	82.8		4/8	2.210	732		17.680	1,464
Gls-SSE-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	493	0.342	396			
Lights-Prof=1	366	1.000			366			
Equipment-Prof=1	600	1.000			600	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					4,151	160		1,973
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					4,359	168		2,131

Zone 230-384 Topico De Procedimientos peaks (sensible) in April at 10am, Air Handler 1 (Fc), Group 0, 1.0 x 15.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	15	0.50	8.9	2.210	299		6.630	101
Wall-2-ENE-B-M	11	0.83	6.4	2.000	136		6.000	64
Partition-1-1	48.8		4/8	2.360	461		18.880	921
Gls-ENE-1-90-Tran	3.4	1.000	1	5.700	17		17.400	58
0%S-0-WS-Solar	3.4	0.700	647	0.716	1,089			
Lights-Prof=1	152	1.000			152			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			140	90		
Sub-total					2,744	90		1,144
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					2,882	94		1,236

Zone 231-385 Sala De Espera Hosp Gineco peaks (sensible) in January at 2pm, Air Handler 1 (Fc), Group 0, 1.0 x 34.7, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	35	0.50	19.2	2.210	1,472		6.630	230
Wall-2-SSE-B-M	12	0.83	7.3	2.000	178		6.000	73
Partition-1-1	104.4		4/8	2.360	986		18.880	1,971
Gls-SSE-1-90-Tran	5.0	1.000	6	5.700	158		17.400	88
0%S-0-WS-Solar	5.0	0.700	493	0.372	647			
Lights-Prof=1	347	1.000			347			
Equipment-Prof=1	200	1.000			200	0		
People-Prof=1	12.0	1.000			960	960		



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
Sub-total					4,949	960		2,362
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					5,196	1,008		2,551

Zone 232-387 Sala Hosp Adultos Varones peaks (sensible) in May at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 20.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	19.4	2.210	863		8.840	178
Wall-2-NNW-B-M	11	0.83	6.1	2.000	130		8.000	85
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102		23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942			
Lights-Prof=1	201	1.000			201			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			161	161		
Sub-total					3,415	161		1,474
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,586	169		1,591

Zone 233-388 Sala Hosp Adultos Varones peaks (sensible) in May at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 20.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	19.4	2.210	863		8.840	178
Wall-2-NNW-B-M	11	0.83	6.1	2.000	130		8.000	85
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102		23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942			
Lights-Prof=1	201	1.000			201			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			161	161		
Sub-total					3,415	161		1,474
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,586	169		1,591

Zone 234-392 Sala De Telecomun lli peaks (sensible) in January at 3pm, Air Handler 10 (Dx), Group 0, 1.0 x 12.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	12	0.50	22.2	2.210	589		6.630	80
Partition-1-1	61.6		4/8	2.360	582		18.880	1,163
Lights-Prof=1	120	1.000			120			
Equipment-Prof=1	1,500	1.000			1,500	0		
People-Prof=1	1.2	1.000			96	96		
Sub-total					2,886	96		1,243
Safety factors:					+5%	+5%		+8%
					-----	-----		-----
Total w/ safety factors:					3,031	101		1,342



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 235-393 Sala Hosp Adultos Varones peaks (sensible) in May at 2pm, Air Handler 25 (Uma-n3-hosp.adult), Group 0, 1.0 x 20.1, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	19.4	2.210	863	8.840	178
Wall-2-NNW-B-M	11	0.83	6.1	2.000	130	8.000	85
Partition-1-1	60		4/8	2.360	566	18.880	1,133
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102	23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942		
Lights-Prof=1	201	1.000			201		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			161	161	
Sub-total					3,415	161	1,474
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,586	169	1,591

Zone 236-395 Esclusa peaks (sensible) in April at 3pm, Air Handler 21 (Uma-n3-aisl.adulto), Group 0, 1.0 x 8.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	8	0.50	20.4	2.210	361	8.840	71
Partition-1-1	49.2		4/8	2.360	464	18.880	929
Lights-Prof=1	80	1.000			80		
Equipment-Prof=1	100	1.000			100	0	
People-Prof=1	0.8	1.000			64	64	
Sub-total					1,069	64	1,000
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					1,123	67	1,080

Zone 237-399 Sala De Ginecologia peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 19.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	19	0.50	18.2	2.210	764	8.840	168
Wall-2-WSW-B-M	10	0.83	5.2	2.000	101	8.000	79
Partition-1-1	59.2		4/8	2.360	559	18.880	1,118
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300		
Lights-Prof=1	190	1.000			190		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,649	160	1,442
Safety factors:					+5%	+5%	+8%
Total w/ safety factors:					3,831	168	1,558

Zone 238-3102 Sala Hosp Adultos Aislado peaks (sensible) in May at 2pm, Air Handler 21 (Uma-n3-aisl.adulto), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	19.4	2.210	868	8.840	179
Wall-2-NNW-B-M	11	0.83	6.1	2.000	130	8.000	85
Partition-1-1	60		4/8	2.360	566	18.880	1,133
Gls-NNW-1-90-Tran	3.4	1.000	5	5.700	102	23.200	78
0%S-0-WS-Solar	3.4	0.700	481	0.833	942		
Lights-Prof=1	202	1.000			202		
Equipment-Prof=1	450	1.000			450	0	



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC-CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
People-Prof=1	1.0	1.000			80	80		
Sub-total					3,340	80		1,474
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,507	84		1,592

Zone 239-3104 Sala Hosp Obstetricia Aisl peaks (sensible) in January at 4pm, Air Handler 22 (Uma-n3-aisl.obst), Group 0, 1.0 x 20.4, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	820		8.840	180
Wall-2-WSW-B-M	11	0.83	5.2	2.000	114		8.000	88
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300			
Lights-Prof=1	204	1.000			204			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,739	160		1,479
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,926	168		1,598

Zone 240-3105 Esclusa peaks (sensible) in April at 3pm, Air Handler 22 (Uma-n3-aisl.obst), Group 0, 1.0 x 8.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	8	0.50	20.4	2.210	361		8.840	71
Partition-1-1	47.6		4/8	2.360	449		18.880	899
Lights-Prof=1	80	1.000			80			
Equipment-Prof=1	240	1.000			240	0		
People-Prof=1	0.8	1.000			64	64		
Sub-total					1,194	64		969
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					1,254	67		1,047

Zone 241-3108 Sala Hosp Ginecologia peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 19.0, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	19	0.50	18.2	2.210	764		8.840	168
Wall-2-WSW-B-M	10	0.83	5.2	2.000	101		8.000	79
Partition-1-1	59.2		4/8	2.360	559		18.880	1,118
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300			
Lights-Prof=1	190	1.000			190			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,649	160		1,442
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,831	168		1,558



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Load Description	Unit Quan	-SC- CFAC	CLTD SHGF	U.Fac -CLF-	Sen. Gain	Lat. Gain	Htg. Mult.	Htg. Loss
------------------	-----------	-----------	-----------	-------------	-----------	-----------	------------	-----------

Zone 242-3109 Sala Hosp Cesareas peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	812		8.840	179
Wall-2-WSW-B-M	11	0.83	5.2	2.000	110		8.000	85
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300			
Lights-Prof=1	202	1.000			202			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,725	160		1,474
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,911	168		1,592

Zone 243-3112 Sala Hosp Cesareas peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	812		8.840	179
Wall-2-WSW-B-M	11	0.83	5.2	2.000	110		8.000	85
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300			
Lights-Prof=1	202	1.000			202			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,725	160		1,474
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,911	168		1,592

Zone 244-3115 Sala Hosp Cesareas peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	812		8.840	179
Wall-2-WSW-B-M	11	0.83	5.2	2.000	110		8.000	85
Partition-1-1	60		4/8	2.360	566		18.880	1,133
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125		23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300			
Lights-Prof=1	202	1.000			202			
Equipment-Prof=1	450	1.000			450	0		
People-Prof=1	2.0	1.000			160	160		
Sub-total					3,725	160		1,474
Safety factors:					+5%	+5%		+8%
Total w/ safety factors:					3,911	168		1,592



Zone Detailed Loads (At Zone Peak Times) (cont'd)

Zone 245-3116 Sala Hosp Cesareas peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	812	8.840	179
Wall-2-WSW-B-M	11	0.83	5.2	2.000	110	8.000	85
Partition-1-1	60		4/8	2.360	566	18.880	1,133
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300		
Lights-Prof=1	202	1.000			202		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,725	160	1,474
Safety factors:					+5%	+5%	+8%
					-----	-----	-----
Total w/ safety factors:					3,911	168	1,592

Zone 246-3120 Sala Hosp Obstetricia peaks (sensible) in January at 4pm, Air Handler 26 (Uma-n3-hosp.obst), Group 0, 1.0 x 20.2, Construction Type: 1 (Light)

Roof-1-1-Susp.C-L	20	0.50	18.2	2.210	812	8.840	179
Wall-2-WSW-B-M	12	0.83	5.2	2.000	126	8.000	98
Partition-1-1	62		4/8	2.360	585	18.880	1,171
Gls-WSW-1-90-Tran	3.4	1.000	7	5.700	125	23.200	78
0%S-0-WS-Solar	3.4	0.700	690	0.801	1,300		
Lights-Prof=1	202	1.000			202		
Equipment-Prof=1	450	1.000			450	0	
People-Prof=1	2.0	1.000			160	160	
Sub-total					3,760	160	1,525
Safety factors:					+5%	+5%	+8%
					-----	-----	-----
Total w/ safety factors:					3,948	168	1,647



Air System #1 (Fc) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.052		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			3,899	0.100	288
Zone Loads	67,337	0.718	399,215	10.240	29,506
Sensible Reserve			25,733	0.660	1,902
Zone Condition	67,337	8.770	428,846	23.000	31,696
Return Air Duct			3,899	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 6,067 L/s	165,080	1.760	52,240	1.321	
Blow-Thru Fan			3,947	0.101	
Entering Coil Condition	232,416	10.530	488,932	24.522	31,696

General Psychrometric Equations Used In Analysis:

PR	=	(Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
TSH	=	PR x 1.23 x L/s x (DB entering - DB leaving)
TLH	=	PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
GTH	=	PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)
TSH	=	1.000 x 1.23 x 31,696 x (24.522 - 12.000) = 488,186 Watts
TLH	=	1.000 x 2.96 x 31,696 x (10.530 - 8.052) = 232,427 Watts
SUM	=	720,613 Watts
GTH	=	1.000 x 1.20 x 31,696 x (51.545 - 32.465) = 725,705 Watts
Total System Load	=	721,348 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	725,705 / (5.00 x 4,179)	=	34.7 L/s
Heating L/s	=	293,364 / (10.00 x 4,179)	=	7.0 L/s
Steam Req.	=	293,364 / 970	=	302.44 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature:	24.52
Wet bulb temperature:	18.25
Relative humidity:	54.81
Enthalpy:	51.55 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	19.86
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.31
Relative humidity:	92.36
Enthalpy:	32.47 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	35.00
-----------------------	-------



Air System #2 (Uma-n1-obs) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.459		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			201	0.100	15
Zone Loads	1,491	0.309	21,879	10.900	1,617
Sensible Reserve			0	0.000	0
Zone Condition	1,491	8.768	22,080	23.000	1,632
Return Air Duct			201	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 488 L/s	13,883	2.875	3,600	1.764	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	15,374	11.642	25,881	24.864	1,632

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	1,632	x	(	24.864	-	12.000	) =	25,822	Watts
TLH	=	1.000	x	2.96	x	1,632	x	(	11.642	-	8.459	) =	15,378	Watts
SUM	=												41,200	Watts	
GTH	=	1.000	x	1.20	x	1,632	x	(	54.730	-	33.492	) =	41,593	Watts
Total System Load													=	39,150	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	41,593	/	(	5.00	x	4,179	)	=	2.0	L/s
Heating L/s	=	19,235	/	(	10.00	x	4,179	)	=	0.5	L/s
Steam Req.	=	19,235	/	970	=	19.83	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature:	24.86
Wet bulb temperature:	19.23
Relative humidity:	59.27
Enthalpy:	54.73 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.60
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.73
Relative humidity:	96.95
Enthalpy:	33.49 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



Air System #3 (Uma-n1-laboratorio) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.069		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			121	0.100	9
Zone Loads	2,037	0.701	12,922	10.698	955
Sensible Reserve			244	0.202	18
Zone Condition	2,037	8.770	13,287	23.000	982
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 982 L/s	27,948	9.615	7,247	6.000	
Blow-Thru Fan			734	0.607	
Entering Coil Condition	29,985	18.385	21,268	29.607	982

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 982 \times (29.607 - 12.000) = 21,268 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 982 \times (18.385 - 8.069) = 29,986 \text{ Watts}$

$SUM = 51,255 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 982 \times (76.836 - 32.508) = 52,239 \text{ Watts}$
Total System Load = 51,017 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 52,239 / (5.00 \times 4,179) = 2.5 \text{ L/s}$
 $\text{Heating L/s} = 12,358 / (10.00 \times 4,179) = 0.3 \text{ L/s}$
 $\text{Steam Req.} = 12,358 / 970 = 12.74 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 29.61
 Wet bulb temperature: 25.16
 Relative humidity: 70.11
 Enthalpy: 76.84 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.33
 Relative humidity: 92.55
 Enthalpy: 32.51 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #4 (Uma-n1-aisl.obse) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.423		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			29	0.100	2
Zone Loads	242	0.347	2,396	8.280	177
Sensible Reserve			758	2.619	56
Zone Condition	242	8.770	3,183	23.000	235
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 235 L/s	6,695	9.615	1,736	6.000	
Blow-Thru Fan			176	0.607	
Entering Coil Condition	6,937	18.385	5,095	29.607	235

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 235 \times (29.607 - 12.000) = 5,095 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 235 \times (18.385 - 8.423) = 6,937 \text{ Watts}$

$SUM = 12,032 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 235 \times (76.836 - 33.402) = 12,262 \text{ Watts}$
Total System Load = 12,032 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 12,262 / (5.00 \times 4,179) = 0.6 \text{ L/s}$
 $\text{Heating L/s} = 3,547 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 3,547 / 970 = 3.66 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 29.61
 Wet bulb temperature: 25.16
 Relative humidity: 70.11
 Enthalpy: 76.84 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.69
 Relative humidity: 96.56
 Enthalpy: 33.40 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #6 (Uma-n1-vih) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.218		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			76	0.100	6
Zone Loads	1,008	0.553	7,501	9.896	554
Sensible Reserve			761	1.004	56
Zone Condition	1,008	8.770	8,337	23.000	616
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 616 L/s	16,767	9.192	5,306	7.000	
Blow-Thru Fan			460	0.607	
Entering Coil Condition	17,775	17.962	14,104	30.607	616

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 616 \times (30.607 - 12.000) = 14,104 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 616 \times (17.962 - 8.218) = 17,775 \text{ Watts}$

$SUM = 31,879 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 616 \times (76.794 - 32.883) = 32,472 \text{ Watts}$
Total System Load = 31,878 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 32,472 / (5.00 \times 4,179) = 1.6 \text{ L/s}$
 $\text{Heating L/s} = 6,759 / (10.00 \times 4,179) = 0.2 \text{ L/s}$
 $\text{Steam Req.} = 6,759 / 970 = 6.97 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.48
 Relative humidity: 94.20
 Enthalpy: 32.88 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #7 (Uma-n1-tbc) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.353		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			42	0.100	3
Zone Loads	420	0.417	4,244	10.132	314
Sensible Reserve			321	0.767	24
Zone Condition	420	8.770	4,607	23.000	341
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 341 L/s	9,265	9.192	2,932	7.000	
Blow-Thru Fan			254	0.607	
Entering Coil Condition	9,685	17.962	7,793	30.607	341

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 341 \times (30.607 - 12.000) = 7,794 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 341 \times (17.962 - 8.353) = 9,685 \text{ Watts}$

$SUM = 17,479 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 341 \times (76.794 - 33.226) = 17,804 \text{ Watts}$
Total System Load = 17,457 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 17,804 / (5.00 \times 4,179) = 0.9 \text{ L/s}$
 $\text{Heating L/s} = 2,614 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 2,614 / 970 = 2.70 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.62
 Relative humidity: 95.73
 Enthalpy: 33.23 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #8 (Uma-n2-sm) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		7.930		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			58	0.100	4
Zone Loads	1,176	0.840	5,216	8.962	385
Sensible Reserve			1,128	1.937	83
Zone Condition	1,176	8.770	6,401	23.000	473
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 473 L/s	12,873	9.192	4,074	7.000	
Blow-Thru Fan			354	0.607	
Entering Coil Condition	14,049	17.962	10,829	30.607	473

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	473	x	(	30.607	-	12.000	)	=	10,829	Watts
TLH	=	1.000	x	2.96	x	473	x	(	17.962	-	7.930	)	=	14,050	Watts

SUM	=													24,879	Watts	
GTH	=	1.000	x	1.20	x	473	x	(	76.794	-	32.158	)	=	25,344	Watts
Total System Load														=	24,878	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	25,344	/	(	5.00	x	4,179	)	=	1.2	L/s
Heating L/s	=	1,392	/	(	10.00	x	4,179	)	=	0.0	L/s
Steam Req.	=	1,392	/	970							=	1.43	kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.19
 Relative humidity: 90.97
 Enthalpy: 32.16 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #9 (Uma-n2-dil) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.512		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			154	0.100	11
Zone Loads	954	0.258	12,931	8.410	956
Sensible Reserve			3,829	2.490	283
Zone Condition	954	8.770	16,913	23.000	1,250
Return Air Duct			154	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 199 L/s	5,423	1.466	1,716	1.100	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	6,378	10.236	18,783	24.200	1,250

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	1,250	x	(	24.200	-	12.000	)	=	18,759 Watts
TLH	=	1.000	x	2.96	x	1,250	x	(	10.236	-	8.512	)	=	6,378 Watts

SUM	=													25,137 Watts
GTH	=	1.000	x	1.20	x	1,250	x	(	50.468	-	33.626	)	=	25,264 Watts
Total System Load														= 25,161 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	25,264	/	(	5.00	x	4,179	)	=	1.2 L/s
Heating L/s	=	9,032	/	(	10.00	x	4,179	)	=	0.2 L/s
Steam Req.	=	9,032	/	970					=	9.31 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 24.20
 Wet bulb temperature: 17.90
 Relative humidity: 54.35
 Enthalpy: 50.47 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.80

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.78
 Relative humidity: 97.53
 Enthalpy: 33.63 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Air System #10 (Dx) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		7.123		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			898	0.100	91
Zone Loads	3,423	0.158	69,469	7.735	7,060
Sensible Reserve			1,485	0.165	151
Zone Condition	3,423	7.281	71,852	20.000	7,302
Return Air Duct			898	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 580 L/s	15,548	0.719	7,128	0.786	
Blow-Thru Fan			909	0.101	
Entering Coil Condition	18,971	8.001	80,787	20.987	7,302

General Psychrometric Equations Used In Analysis:

PR	=	(Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
TSH	=	PR x 1.23 x L/s x (DB entering - DB leaving)
TLH	=	PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
GTH	=	PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)
TSH	=	1.000 x 1.23 x 7,302 x (20.987 - 12.000) = 80,716 Watts
TLH	=	1.000 x 2.96 x 7,302 x (8.001 - 7.123) = 18,972 Watts

SUM	=	99,688 Watts
GTH	=	1.000 x 1.20 x 7,302 x (41.499 - 30.120) = 99,710 Watts
Total System Load	=	99,758 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	99,710 / (5.00 x 4,179)	=	4.8 L/s
Heating L/s	=	32,138 / (10.00 x 4,179)	=	0.8 L/s
Steam Req.	=	32,138 / 970	=	33.13 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature:	20.99
Wet bulb temperature:	14.84
Relative humidity:	51.82
Enthalpy:	41.50 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.02
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	10.34
Relative humidity:	81.84
Enthalpy:	30.12 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	35.00
-----------------------	-------



Air System #11 (Uma-n2-sp) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.417		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			52	0.100	4
Zone Loads	441	0.353	3,761	7.252	278
Sensible Reserve			1,891	3.647	140
Zone Condition	441	8.770	5,704	23.000	422
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 422 L/s	11,471	9.192	3,630	7.000	
Blow-Thru Fan			315	0.607	
Entering Coil Condition	11,912	17.962	9,649	30.607	422

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 422 \times (30.607 - 12.000) = 9,649 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 422 \times (17.962 - 8.417) = 11,912 \text{ Watts}$

$SUM = 21,562 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 422 \times (76.794 - 33.385) = 21,962 \text{ Watts}$
Total System Load = 21,561 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 21,962 / (5.00 \times 4,179) = 1.1 \text{ L/s}$
 $\text{Heating L/s} = 2,273 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 2,273 / 970 = 2.34 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.68
 Relative humidity: 96.47
 Enthalpy: 33.39 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #12 (Uma-n2-so-gin) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.010		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			69	0.100	5
Zone Loads	1,260	0.760	6,797	9.865	502
Sensible Reserve			712	1.034	53
Zone Condition	1,260	8.770	7,579	23.000	560
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 560 L/s	15,241	9.192	4,823	7.000	
Blow-Thru Fan			419	0.607	
Entering Coil Condition	16,501	17.962	12,820	30.607	560

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	560	x	(	30.607	-	12.000	)	=	12,821	Watts
TLH	=	1.000	x	2.96	x	560	x	(	17.962	-	8.010	)	=	16,502	Watts

SUM	=													29,323	Watts	
GTH	=	1.000	x	1.20	x	560	x	(	76.794	-	32.359	)	=	29,870	Watts
Total System Load														=	29,321	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	29,870	/	(	5.00	x	4,179	)	=	1.4	L/s
Heating L/s	=	3,347	/	(	10.00	x	4,179	)	=	0.1	L/s
Steam Req.	=	3,347	/	970	=	3.45	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.27
 Relative humidity: 91.85
 Enthalpy: 32.36 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #13 (Uma-n2-legrado) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		7.674		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			45	0.100	3
Zone Loads	1,176	1.086	4,905	10.899	363
Sensible Reserve			0	0.000	0
Zone Condition	1,176	8.760	4,950	23.000	366
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 366 L/s	9,956	9.203	3,151	7.000	
Blow-Thru Fan			273	0.607	
Entering Coil Condition	11,132	17.962	8,374	30.607	366

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 366 \times (30.607 - 12.000) = 8,375 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 366 \times (17.962 - 7.674) = 11,144 \text{ Watts}$

$SUM = 19,519 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 366 \times (76.794 - 31.510) = 19,885 \text{ Watts}$
Total System Load = 19,506 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 19,885 / (5.00 \times 4,179) = 1.0 \text{ L/s}$
 $\text{Heating L/s} = 2,288 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 2,288 / 970 = 2.36 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 10.92
 Relative humidity: 88.08
 Enthalpy: 31.51 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #14 (Uma-n2-induc) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.487		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			132	0.100	10
Zone Loads	893	0.281	14,389	10.900	1,063
Sensible Reserve			0	0.000	0
Zone Condition	893	8.768	14,521	23.000	1,073
Return Air Duct			132	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 245 L/s	6,675	2.102	2,112	1.577	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	7,567	10.869	16,765	24.677	1,073

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	1,073	x	(	24.677	-	12.000	) =	16,736	Watts
TLH	=	1.000	x	2.96	x	1,073	x	(	10.869	-	8.487	) =	7,570	Watts
SUM	=												-----		
GTH	=	1.000	x	1.20	x	1,073	x	(	52.570	-	33.562	) =	24,481	Watts
Total System Load													=	24,333	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	24,481	/	(	5.00	x	4,179	)	=	1.2	L/s
Heating L/s	=	10,135	/	(	10.00	x	4,179	)	=	0.2	L/s
Steam Req.	=	10,135	/	970	=	10.45	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature:	24.68
Wet bulb temperature:	18.57
Relative humidity:	56.04
Enthalpy:	52.57 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.67
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.76
Relative humidity:	97.27
Enthalpy:	33.56 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



Air System #15 (Uma-n2-so-cirugía) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.032		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			68	0.100	5
Zone Loads	1,214	0.738	4,803	7.031	355
Sensible Reserve			2,642	3.868	195
Zone Condition	1,214	8.770	7,514	23.000	555
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 555 L/s	15,110	9.192	4,782	7.000	
Blow-Thru Fan			415	0.607	
Entering Coil Condition	16,324	17.962	12,710	30.607	555

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	555	x	(	30.607	-	12.000	)	=	12,711 Watts
TLH	=	1.000	x	2.96	x	555	x	(	17.962	-	8.032	)	=	16,325 Watts

SUM	=												29,035 Watts	
GTH	=	1.000	x	1.20	x	555	x	(	76.794	-	32.413	)	=	29,577 Watts
Total System Load													= 29,034 Watts	

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	29,577	/	(	5.00	x	4,179	)	=	1.4 L/s
Heating L/s	=	3,302	/	(	10.00	x	4,179	)	=	0.1 L/s
Steam Req.	=	3,302	/	970					=	3.40 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.29
 Relative humidity: 92.11
 Enthalpy: 32.41 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #16 (Uma-n2-so-est) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.613		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			189	0.100	14
Zone Loads	709	0.156	20,601	10.900	1,523
Sensible Reserve			0	0.000	0
Zone Condition	709	8.769	20,790	23.000	1,537
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 1,537 L/s	41,808	9.193	13,230	7.000	
Blow-Thru Fan			1,148	0.607	
Entering Coil Condition	42,517	17.962	35,168	30.607	1,537

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 1,537 \times (30.607 - 12.000) = 35,169 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 1,537 \times (17.962 - 8.613) = 42,524 \text{ Watts}$

$SUM = 77,692 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 1,537 \times (76.794 - 33.881) = 79,129 \text{ Watts}$
Total System Load = 77,685 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 79,129 / (5.00 \times 4,179) = 3.8 \text{ L/s}$
 $\text{Heating L/s} = 13,901 / (10.00 \times 4,179) = 0.3 \text{ L/s}$
 $\text{Steam Req.} = 13,901 / 970 = 14.33 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.88
 Relative humidity: 98.69
 Enthalpy: 33.88 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #17 (Uma-n2-lab. Inmunoheemt.) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.400		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			93	0.100	7
Zone Loads	824	0.370	9,041	9.766	668
Sensible Reserve			1,049	1.133	78
Zone Condition	824	8.770	10,183	23.000	753
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 753 L/s	21,419	9.615	5,554	6.000	
Blow-Thru Fan			562	0.607	
Entering Coil Condition	22,243	18.385	16,299	29.607	753

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	753	x	(	29.607	-	12.000	)	=	16,300	Watts
TLH	=	1.000	x	2.96	x	753	x	(	18.385	-	8.400	)	=	22,244	Watts

SUM	=												38,544	Watts	
GTH	=	1.000	x	1.20	x	753	x	(	76.836	-	33.344	)	=	39,281	Watts
Total System Load													=	38,542	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	39,281	/	(	5.00	x	4,179	)	=	1.9	L/s
Heating L/s	=	10,384	/	(	10.00	x	4,179	)	=	0.2	L/s
Steam Req.	=	10,384	/	970	=	10.70	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature: 29.61
 Wet bulb temperature: 25.16
 Relative humidity: 70.11
 Enthalpy: 76.84 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.67
 Relative humidity: 96.31
 Enthalpy: 33.34 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #18 (N2 Unidad Precisión) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		7.272		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			289	0.100	29
Zone Loads	63	0.009	22,834	7.900	2,320
Sensible Reserve			0	0.000	0
Zone Condition	63	7.282	23,123	20.000	2,350
Return Air Duct			289	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 64 L/s	1,882	0.271	631	0.216	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	1,945	7.552	24,043	20.316	2,350

General Psychrometric Equations Used In Analysis:

PR	=	(Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
TSH	=	PR x 1.23 x L/s x (DB entering - DB leaving)
TLH	=	PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
GTH	=	PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)
TSH	=	1.000 x 1.23 x 2,350 x (20.316 - 12.000) = 24,036 Watts
TLH	=	1.000 x 2.96 x 2,350 x (7.552 - 7.272) = 1,945 Watts

SUM	=	25,980 Watts
GTH	=	1.000 x 1.20 x 2,350 x (39.676 - 30.497) = 25,881 Watts
Total System Load	=	25,988 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	25,881 / (5.00 x 4,179)	=	1.2 L/s
Heating L/s	=	3,089 / (10.00 x 4,179)	=	0.1 L/s
Steam Req.	=	3,089 / 970	=	3.18 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature:	20.32
Wet bulb temperature:	14.17
Relative humidity:	51.02
Enthalpy:	39.68 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.88
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	10.50
Relative humidity:	83.53
Enthalpy:	30.50 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



Air System #19 (Uma-n3-hosp) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.565		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			171	0.100	13
Zone Loads	840	0.204	18,660	10.900	1,379
Sensible Reserve			0	0.000	0
Zone Condition	840	8.768	18,831	23.000	1,392
Return Air Duct			171	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 232 L/s	5,191	1.260	1,993	1.148	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	6,031	10.029	20,995	24.248	1,392

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	1,392	x	(24.248 - 12.000)	=	20,967	Watts		
TLH	=	1.000	x	2.96	x	1,392	x	(10.029 - 8.565)	=	6,032	Watts		

SUM	=										27,000	Watts	
GTH	=	1.000	x	1.20	x	1,392	x	(49.989 - 33.758)	=	27,108	Watts		
Total System Load											=	27,026	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	27,108	/	(5.00	x	4,179)	=	1.3	L/s			
Heating L/s	=	11,367	/	(10.00	x	4,179)	=	0.3	L/s			
Steam Req.	=	11,367	/	970						=	11.72	kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 24.25
 Wet bulb temperature: 17.75
 Relative humidity: 53.12
 Enthalpy: 49.99 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.91

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.83
 Relative humidity: 98.14
 Enthalpy: 33.76 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Air System #20 (Uma-n3-aisl.pediat) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.560		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			34	0.100	3
Zone Loads	168	0.208	3,655	10.899	270
Sensible Reserve			0	0.000	0
Zone Condition	168	8.768	3,688	23.000	273
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 273 L/s	7,417	9.194	2,347	7.000	
Blow-Thru Fan			204	0.607	
Entering Coil Condition	7,585	17.962	6,239	30.607	273

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	273	x	(30.607 - 12.000)	=	6,239 Watts	
TLH	=	1.000	x	2.96	x	273	x	(17.962 - 8.560)	=	7,587 Watts	

SUM	=									13,827 Watts	
GTH	=	1.000	x	1.20	x	273	x	(76.794 - 33.747)	=	14,083 Watts	
Total System Load										=	13,731 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	14,083 / (	5.00	x	4,179)	=	0.7 L/s
Heating L/s	=	2,607 / (	10.00	x	4,179)	=	0.1 L/s
Steam Req.	=	2,607 /	970			=	2.69 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.83
 Relative humidity: 98.11
 Enthalpy: 33.75 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #21 (Uma-n3-aisl.adulto) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.622		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			42	0.100	3
Zone Loads	151	0.148	4,612	10.871	341
Sensible Reserve			12	0.028	1
Zone Condition	151	8.770	4,666	23.000	345
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 345 L/s	9,384	9.192	2,969	7.000	
Blow-Thru Fan			258	0.607	
Entering Coil Condition	9,535	17.962	7,893	30.607	345

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	345	x	(30.607 - 12.000)	=	7,893 Watts	
TLH	=	1.000	x	2.96	x	345	x	(17.962 - 8.622)	=	9,535 Watts	

SUM	=									=	17,429 Watts
GTH	=	1.000	x	1.20	x	345	x	(76.794 - 33.904)	=	17,751 Watts	
Total System Load										=	17,313 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	17,751 / (	5.00	x	4,179)	=	0.8 L/s
Heating L/s	=	3,494 / (	10.00	x	4,179)	=	0.1 L/s
Steam Req.	=	3,494 /	970			=	3.60 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.89
 Relative humidity: 98.78
 Enthalpy: 33.90 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #22 (Uma-n3-aisl.obst) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.564		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			47	0.100	4
Zone Loads	235	0.206	5,139	10.841	380
Sensible Reserve			27	0.057	2
Zone Condition	235	8.770	5,213	23.000	385
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 385 L/s	10,485	9.192	3,318	7.000	
Blow-Thru Fan			288	0.607	
Entering Coil Condition	10,720	17.962	8,819	30.607	385

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 385 \times (30.607 - 12.000) = 8,820 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 385 \times (17.962 - 8.564) = 10,721 \text{ Watts}$

$SUM = 19,541 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 385 \times (76.794 - 33.757) = 19,902 \text{ Watts}$
Total System Load = 19,274 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 19,902 / (5.00 \times 4,179) = 1.0 \text{ L/s}$
 $\text{Heating L/s} = 3,458 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 3,458 / 970 = 3.57 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.83
 Relative humidity: 98.14
 Enthalpy: 33.76 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Air System #24 (Uma-n2-recup) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.637		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			89	0.100	7
Zone Loads	284	0.132	9,716	10.899	718
Sensible Reserve			0	0.000	0
Zone Condition	284	8.769	9,805	23.000	725
Return Air Duct			89	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 172 L/s	4,666	2.175	1,477	1.633	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	4,950	10.945	11,371	24.733	725

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 725 \times (24.733 - 12.000) = 11,351 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 725 \times (10.945 - 8.637) = 4,950 \text{ Watts}$

$SUM = 16,301 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 725 \times (52.818 - 33.941) = 16,417 \text{ Watts}$
Total System Load = 16,321 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 16,417 / (5.00 \times 4,179) = 0.8 \text{ L/s}$
 $\text{Heating L/s} = 5,188 / (10.00 \times 4,179) = 0.1 \text{ L/s}$
 $\text{Steam Req.} = 5,188 / 970 = 5.35 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 24.73
 Wet bulb temperature: 18.64
 Relative humidity: 56.22
 Enthalpy: 52.82 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.10

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.91
 Relative humidity: 98.95
 Enthalpy: 33.94 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Air System #25 (Uma-n3-hosp.adult) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.539		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			227	0.100	17
Zone Loads	1,263	0.231	24,476	10.793	1,809
Sensible Reserve			242	0.107	18
Zone Condition	1,263	8.770	24,944	23.000	1,844
Return Air Duct			227	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 263 L/s	7,142	1.309	2,260	0.982	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	8,405	10.079	27,431	24.082	1,844

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times \text{L/s} \times (\text{DB entering} - \text{DB leaving})$
 $TLH = PR \times 2.96 \times \text{L/s} \times (\text{g/kg entering} - \text{g/kg leaving})$
 $GTH = PR \times 1.20 \times \text{L/s} \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

TSH	=	1.000	x	1.23	x	1,844	x	(	24.082	-	12.000	)	=	27,399 Watts
TLH	=	1.000	x	2.96	x	1,844	x	(	10.079	-	8.539	)	=	8,405 Watts

SUM	=												35,804 Watts	
GTH	=	1.000	x	1.20	x	1,844	x	(	49.947	-	33.693	)	=	35,960 Watts
Total System Load													= 35,559 Watts	

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	35,960	/	(	5.00	x	4,179	)	=	1.7 L/s
Heating L/s	=	13,268	/	(	10.00	x	4,179	)	=	0.3 L/s
Steam Req.	=	13,268	/	970					=	13.68 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 24.08
 Wet bulb temperature: 17.74
 Relative humidity: 53.91
 Enthalpy: 49.95 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.94

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.81
 Relative humidity: 97.85
 Enthalpy: 33.69 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Air System #26 (Uma-n3-hosp.obst) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.573		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			250	0.100	19
Zone Loads	1,176	0.195	27,255	10.900	2,014
Sensible Reserve			0	0.000	0
Zone Condition	1,176	8.769	27,505	23.000	2,033
Return Air Duct			250	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 232 L/s	5,195	0.863	1,995	0.786	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	6,371	9.632	29,750	23.886	2,033

General Psychrometric Equations Used In Analysis:

$PR = (\text{Barometric pressure of site} / \text{Standard ASHRAE pressure of } 1010.387)$
 $TSH = PR \times 1.23 \times L/s \times (DB \text{ entering} - DB \text{ leaving})$
 $TLH = PR \times 2.96 \times L/s \times (g/kg \text{ entering} - g/kg \text{ leaving})$
 $GTH = PR \times 1.20 \times L/s \times (\text{Enthalpy entering} - \text{Enthalpy leaving})$

$TSH = 1.000 \times 1.23 \times 2,033 \times (23.886 - 12.000) = 29,722 \text{ Watts}$
 $TLH = 1.000 \times 2.96 \times 2,033 \times (9.632 - 8.573) = 6,372 \text{ Watts}$

$SUM = 36,094 \text{ Watts}$
 $GTH = 1.000 \times 1.20 \times 2,033 \times (48.609 - 33.780) = 36,176 \text{ Watts}$
Total System Load = 36,121 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

$\text{Cooling L/s} = 36,176 / (5.00 \times 4,179) = 1.7 \text{ L/s}$
 $\text{Heating L/s} = 12,253 / (10.00 \times 4,179) = 0.3 \text{ L/s}$
 $\text{Steam Req.} = 12,253 / 970 = 12.63 \text{ kg./hr}$

Entering Cooling Coil Conditions

Dry bulb temperature: 23.89
 Wet bulb temperature: 17.30
 Relative humidity: 52.17
 Enthalpy: 48.61 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.99

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.84
 Relative humidity: 98.24
 Enthalpy: 33.78 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Air System #27 (Uma-n3-hosp.ped) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.498		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			164	0.100	12
Zone Loads	1,076	0.272	16,979	10.324	1,255
Sensible Reserve			947	0.576	70
Zone Condition	1,076	8.770	18,091	23.000	1,337
Return Air Duct			164	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 179 L/s	4,857	1.227	1,537	0.921	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	5,933	9.997	19,792	24.021	1,337

General Psychrometric Equations Used In Analysis:

PR	=	(Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
TSH	=	PR x 1.23 x L/s x (DB entering - DB leaving)
TLH	=	PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
GTH	=	PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)
TSH	=	1.000 x 1.23 x 1,337 x (24.021 - 12.000) = 19,771 Watts
TLH	=	1.000 x 2.96 x 1,337 x (9.997 - 8.498) = 5,933 Watts
SUM	=	25,704 Watts
GTH	=	1.000 x 1.20 x 1,337 x (49.677 - 33.591) = 25,810 Watts
Total System Load	=	25,725 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	25,810 / (5.00 x 4,179)	=	1.2 L/s
Heating L/s	=	9,373 / (10.00 x 4,179)	=	0.2 L/s
Steam Req.	=	9,373 / 970	=	9.66 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature:	24.02
Wet bulb temperature:	17.65
Relative humidity:	53.67
Enthalpy:	49.68 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.98
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.77
Relative humidity:	97.40
Enthalpy:	33.59 kJ/kg

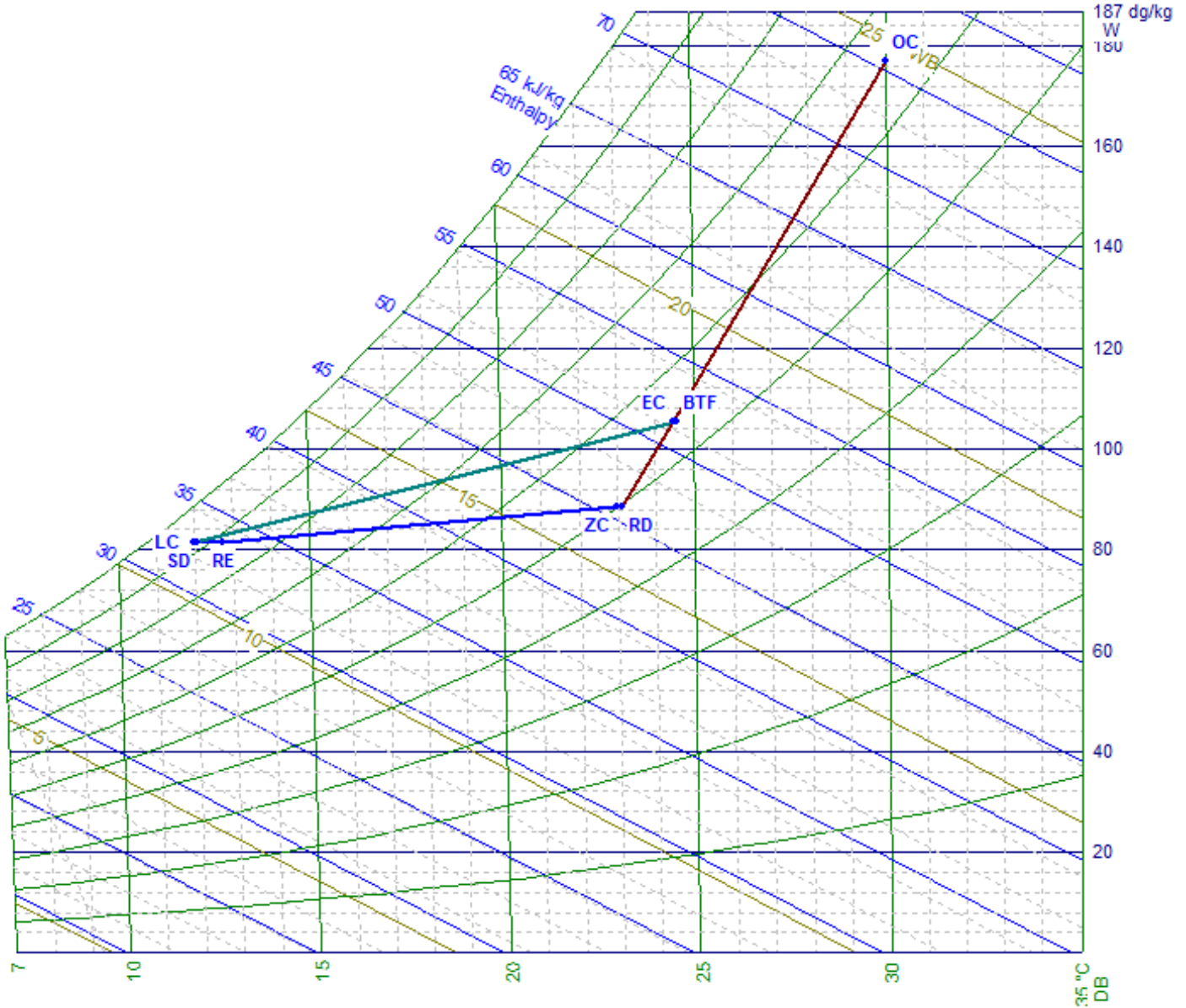
Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



Air System #1 (Fc) Psychrometric Chart

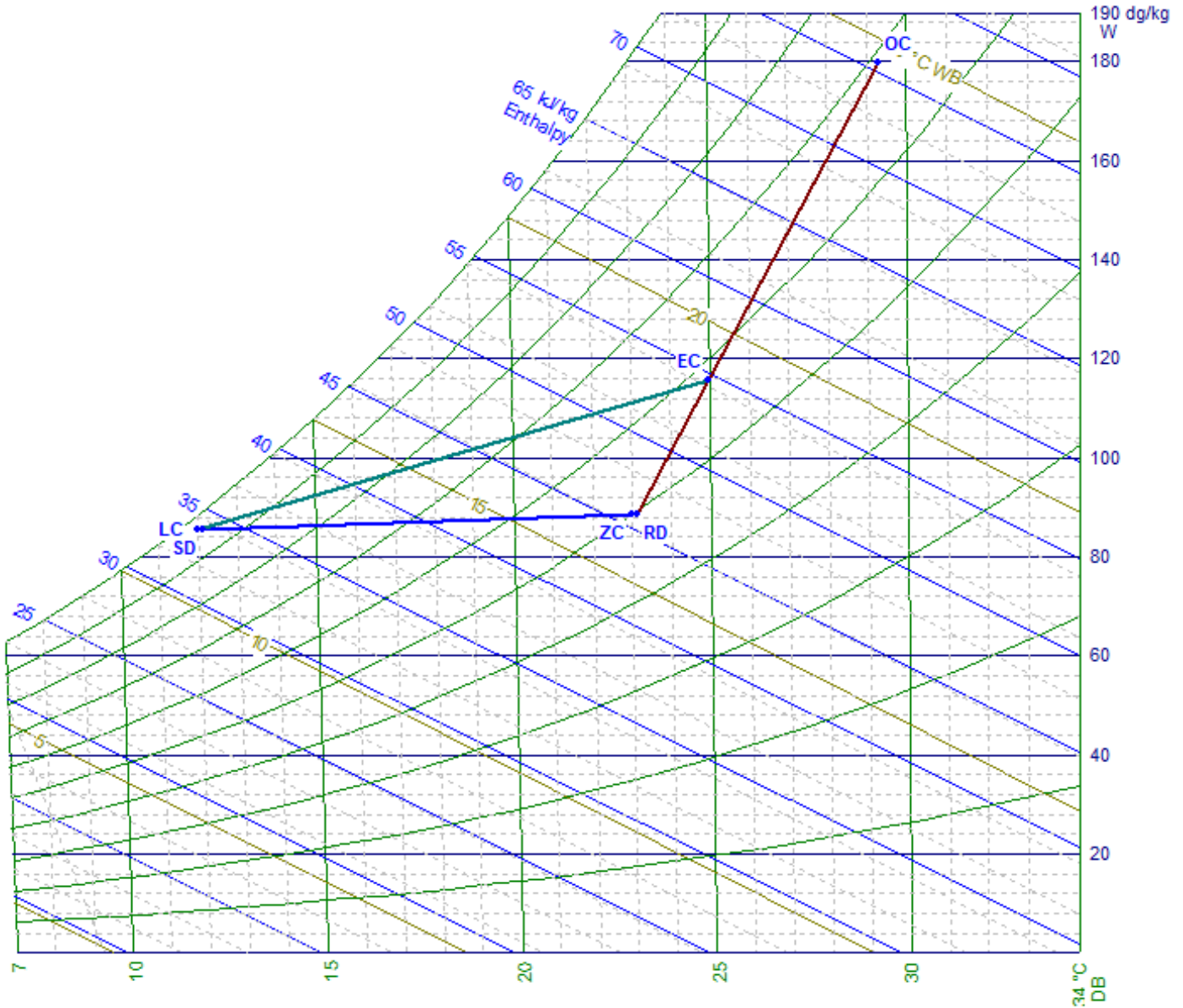
- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |





Air System #2 (Uma-n1-obs) Psychrometric Chart

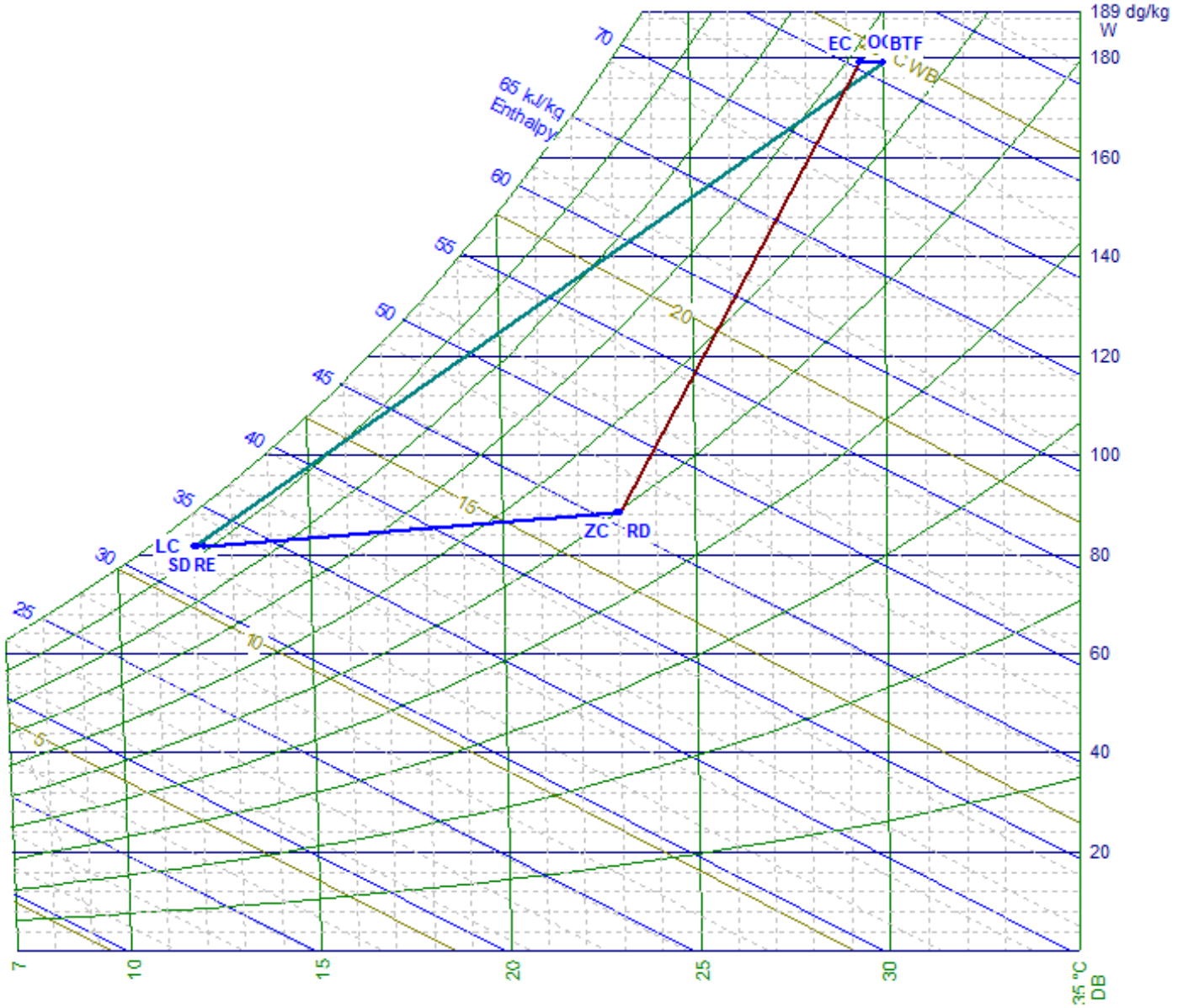
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #3 (Uma-n1-laboratorio) Psychrometric Chart

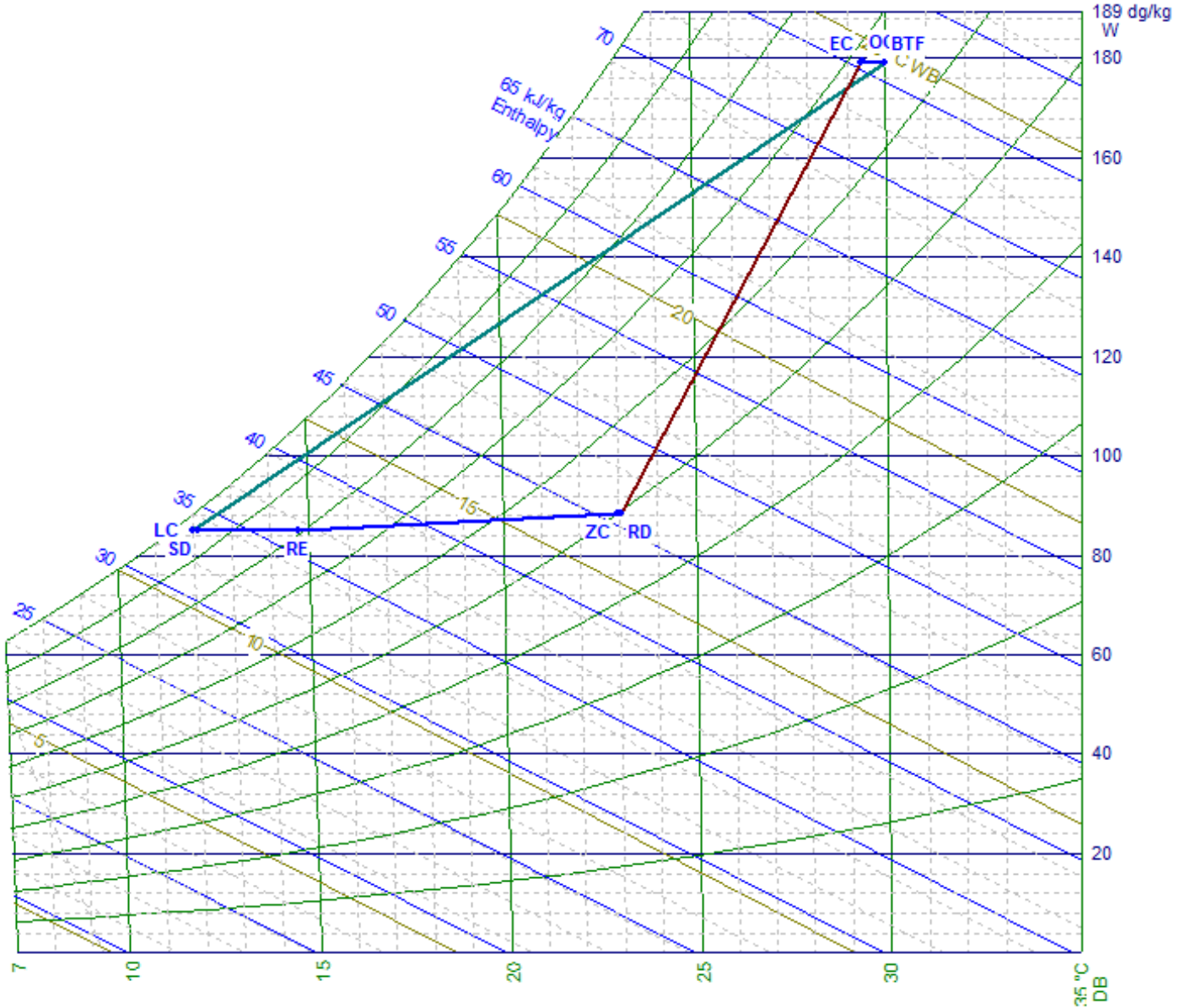
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #4 (Uma-n1-aisl.obse) Psychrometric Chart

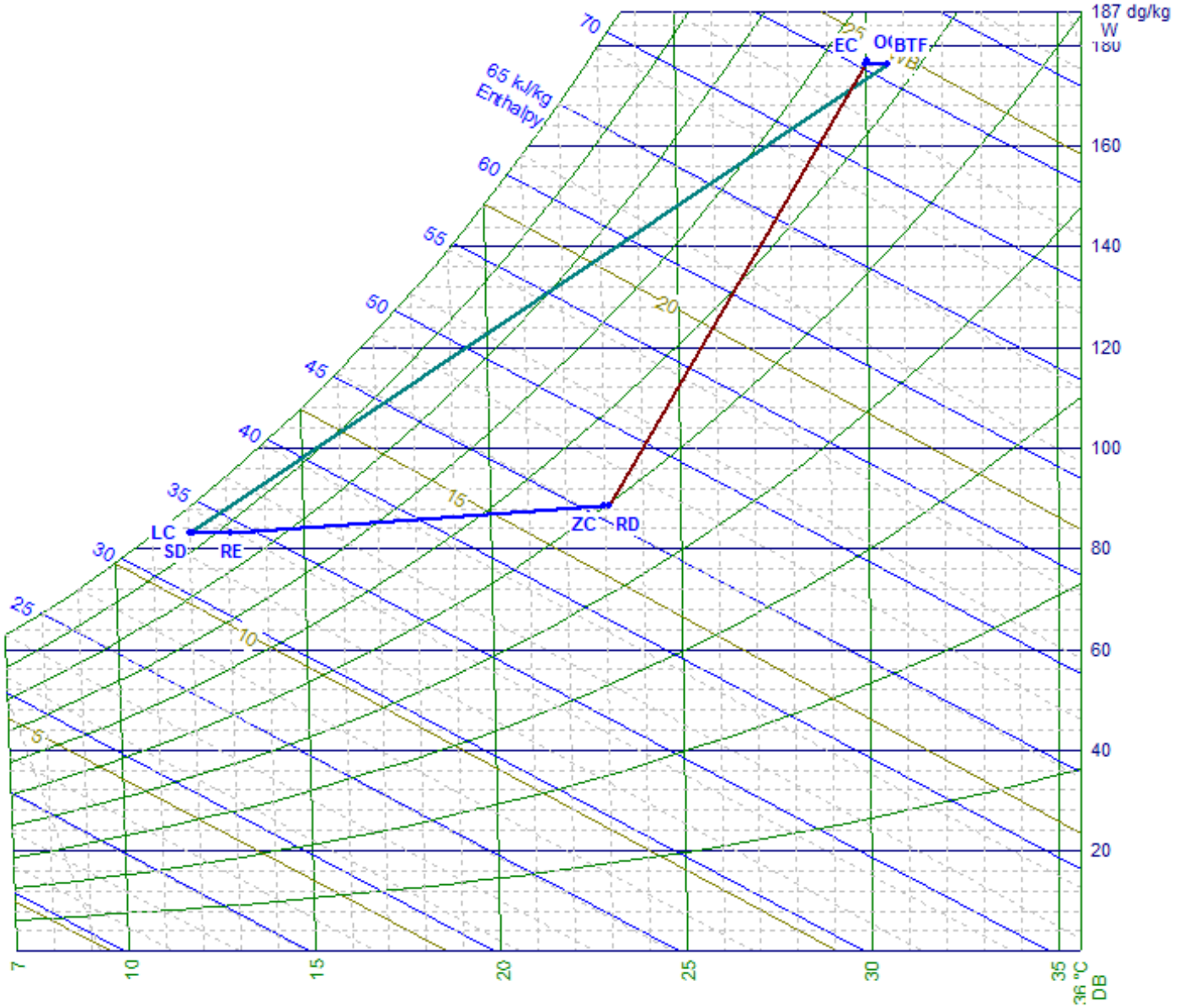
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #6 (Uma-n1-vih) Psychrometric Chart

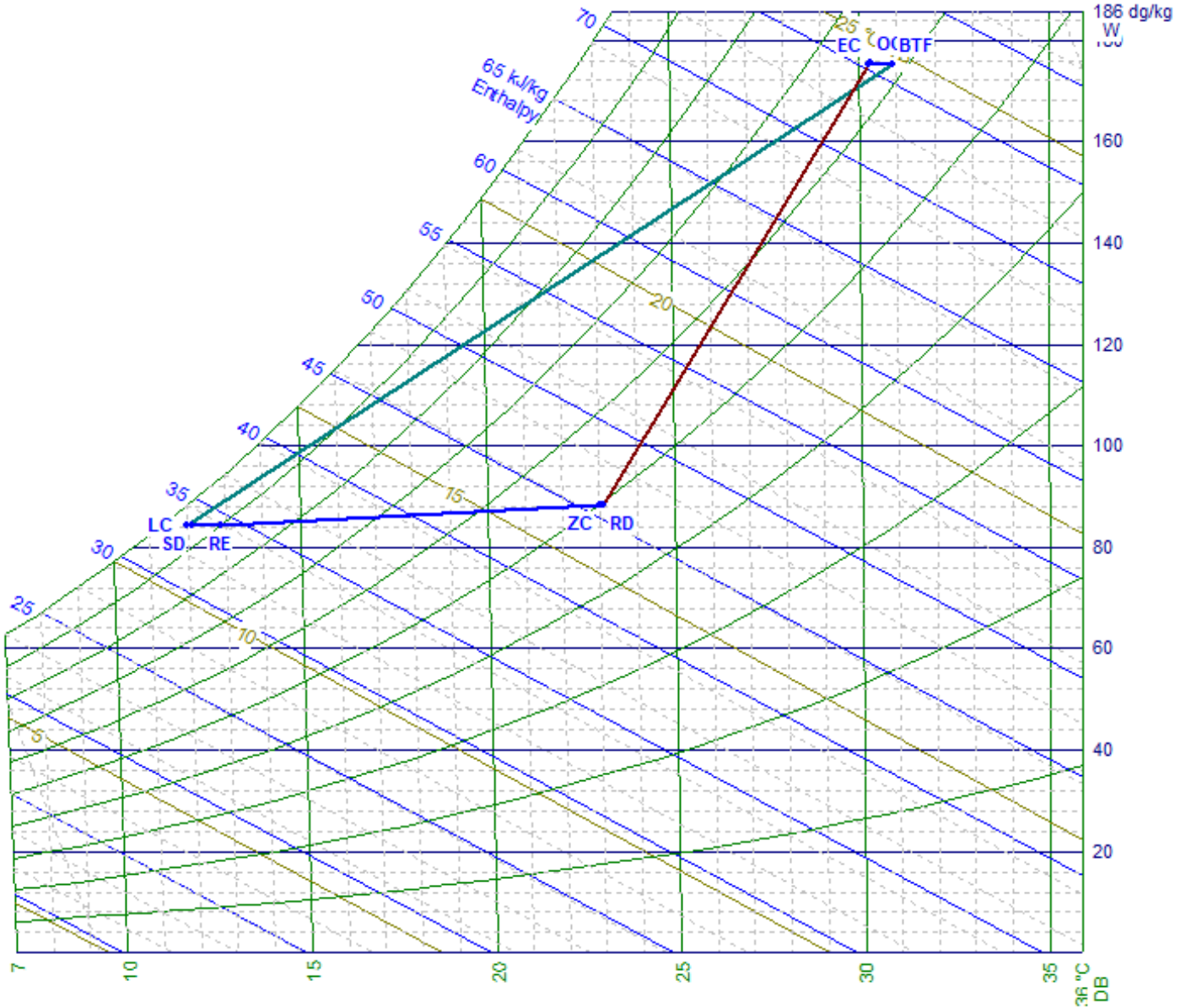
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #7 (Uma-n1-tbc) Psychrometric Chart

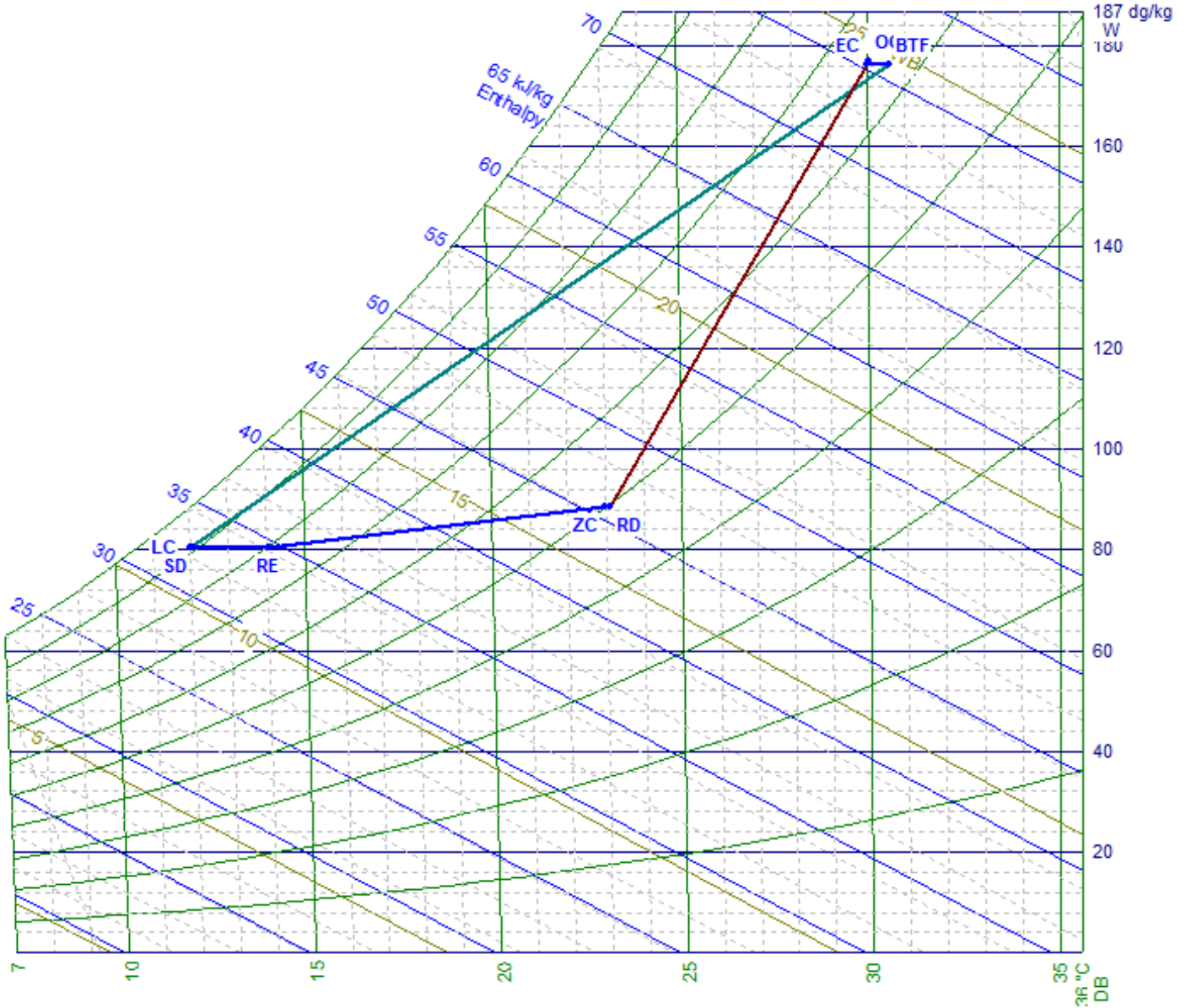
- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |





Air System #8 (Uma-n2-sm) Psychrometric Chart

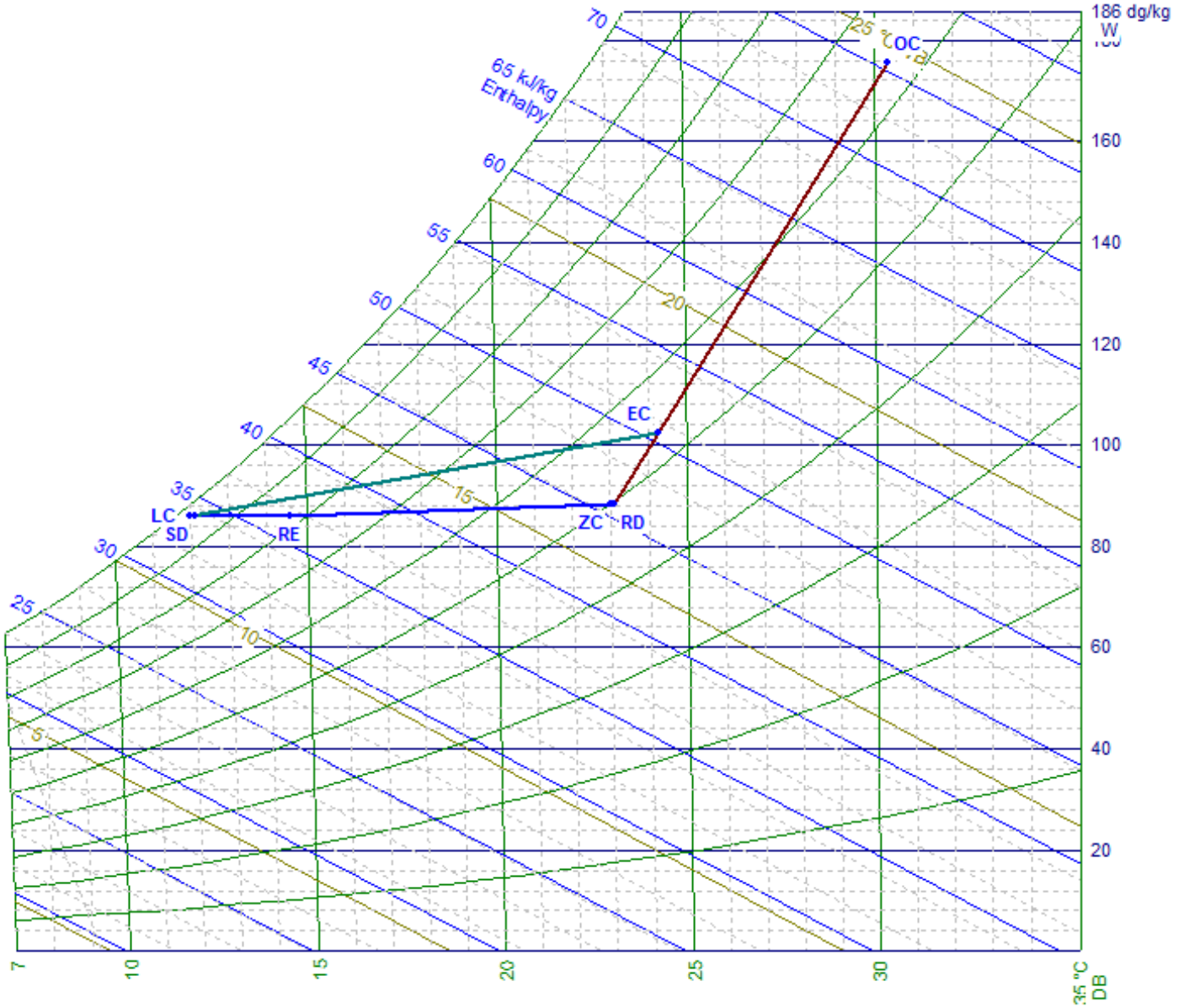
- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |





Air System #9 (Uma-n2-dil) Psychrometric Chart

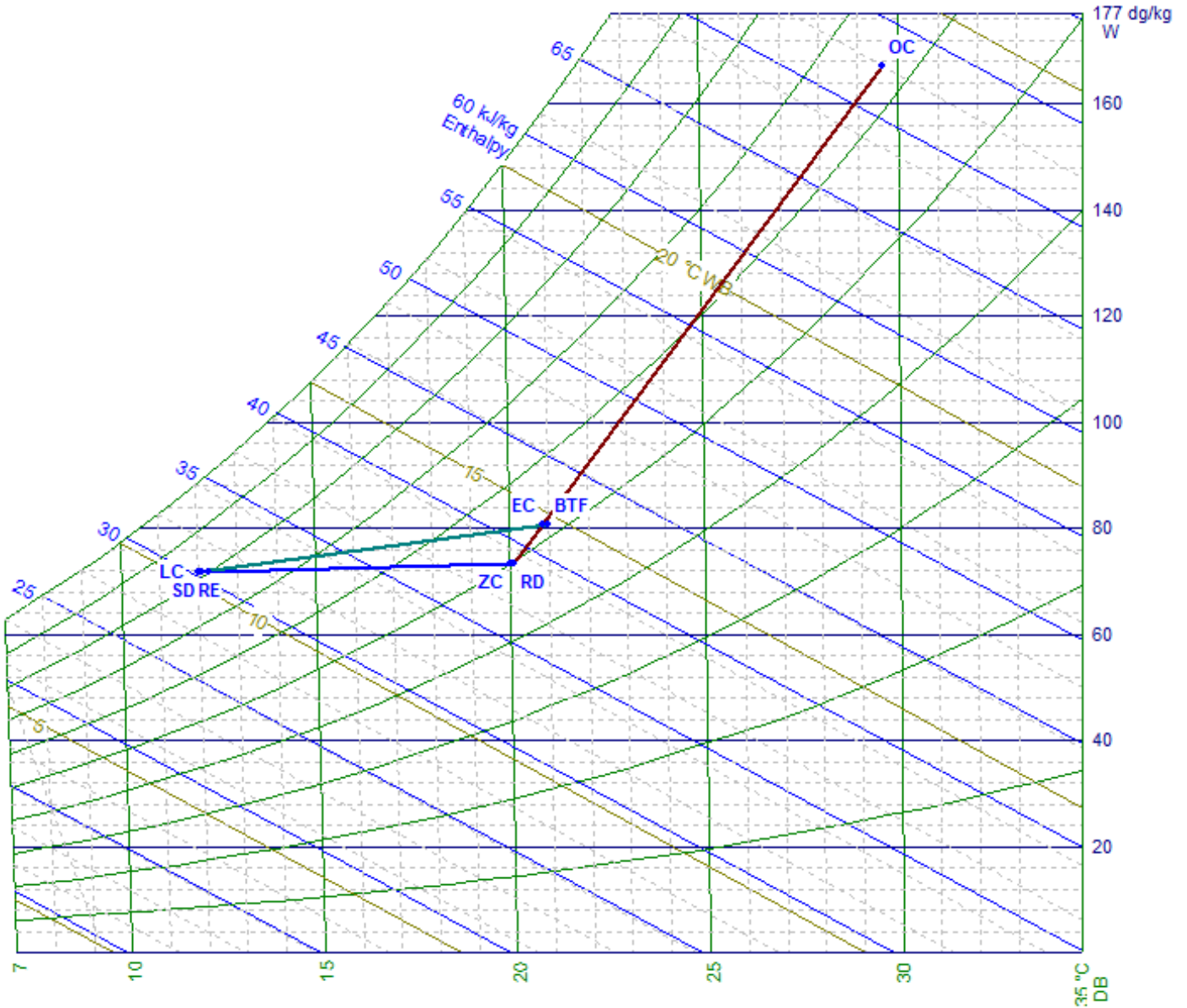
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #10 (Dx) Psychrometric Chart

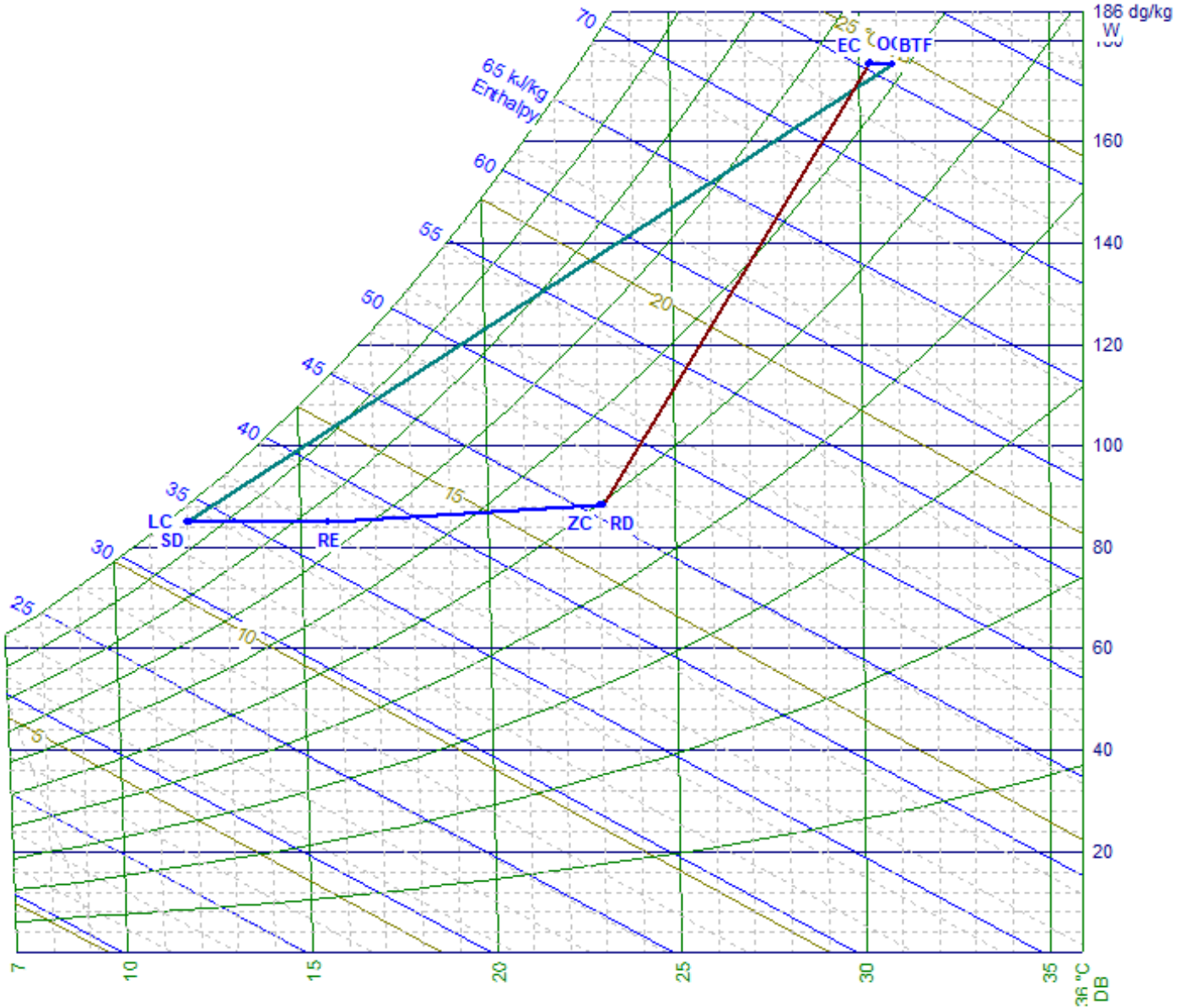
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #11 (Uma-n2-sp) Psychrometric Chart

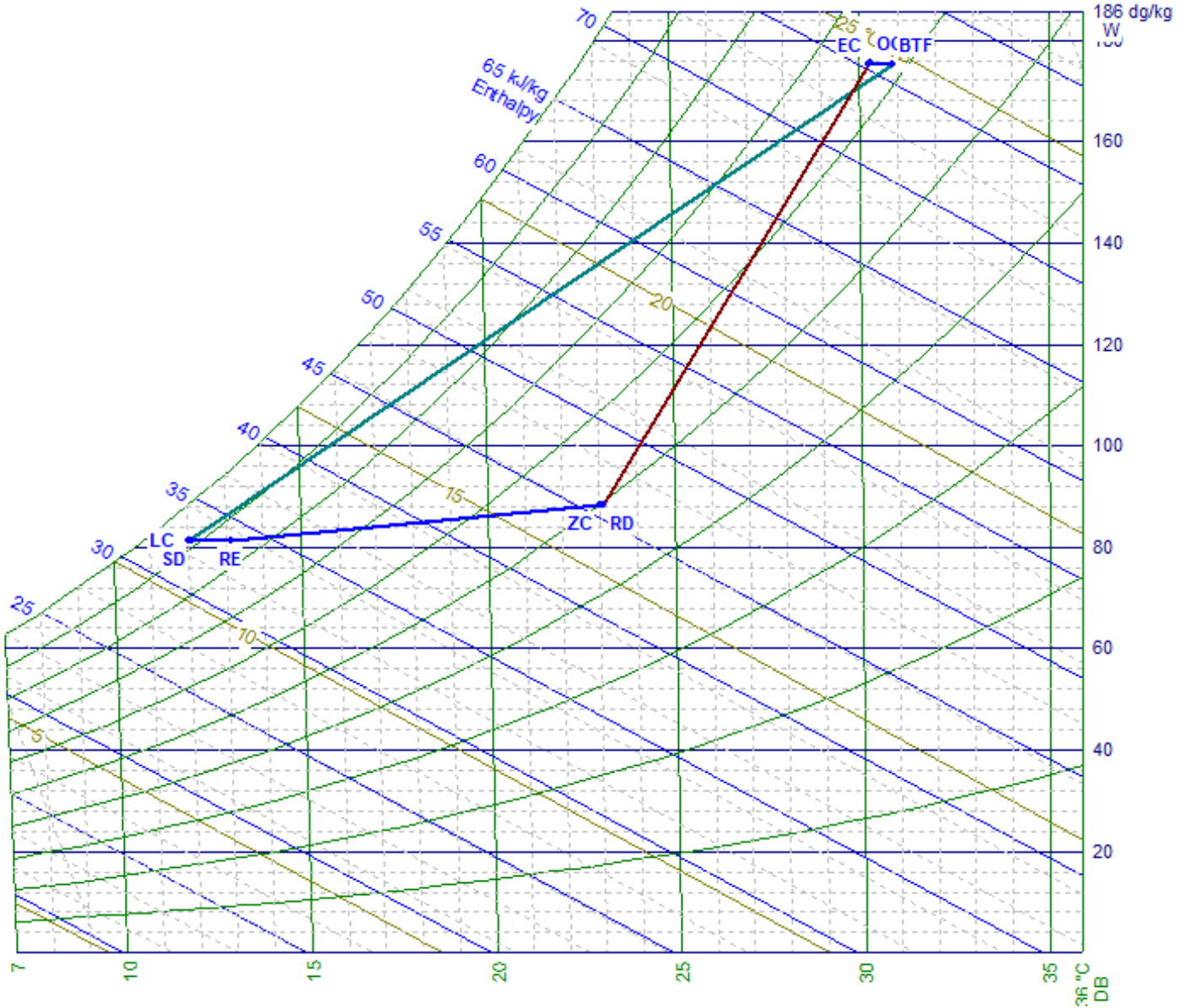
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #12 (Uma-n2-so-gin) Psychrometric Chart

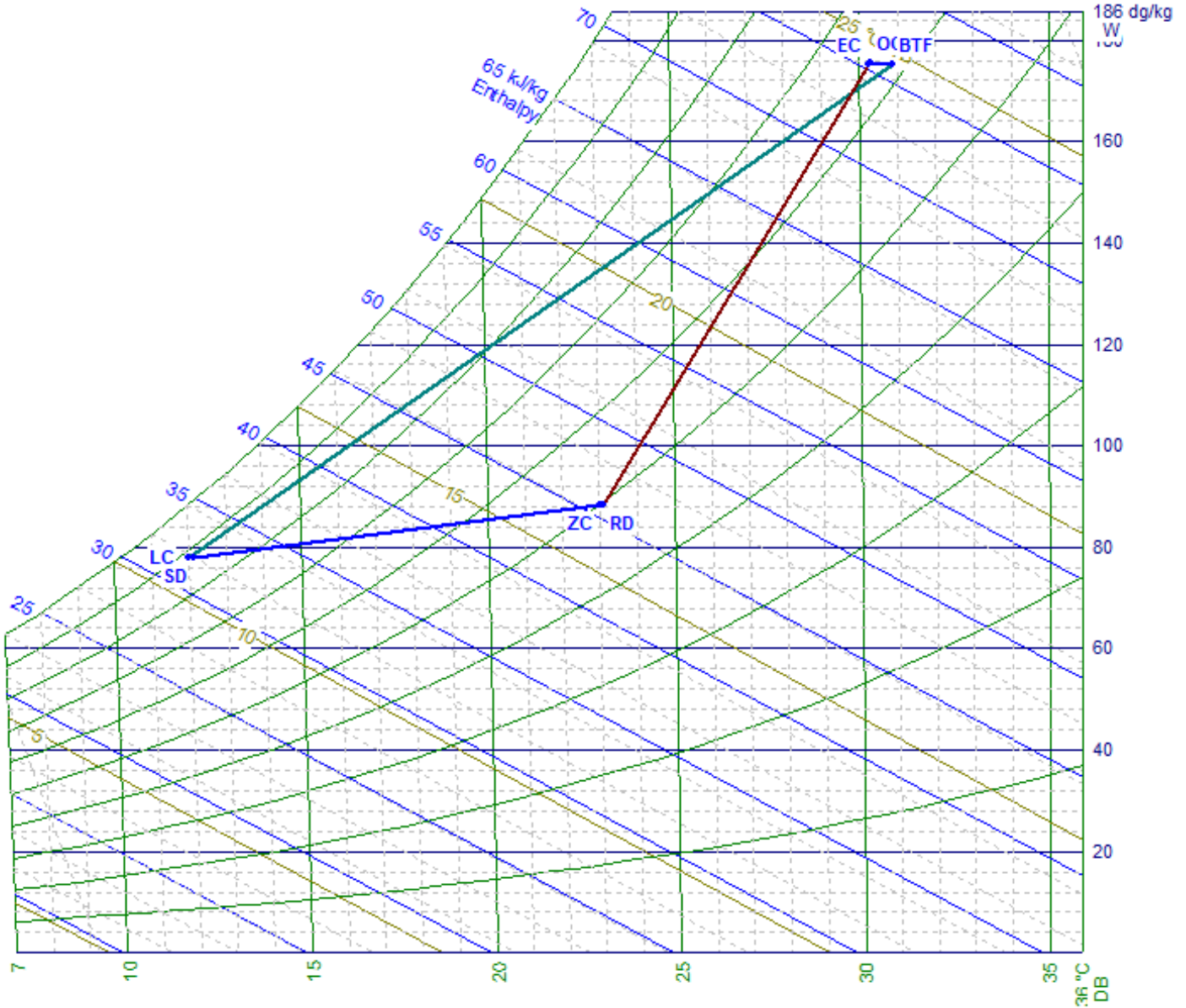
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #13 (Uma-n2-legrado) Psychrometric Chart

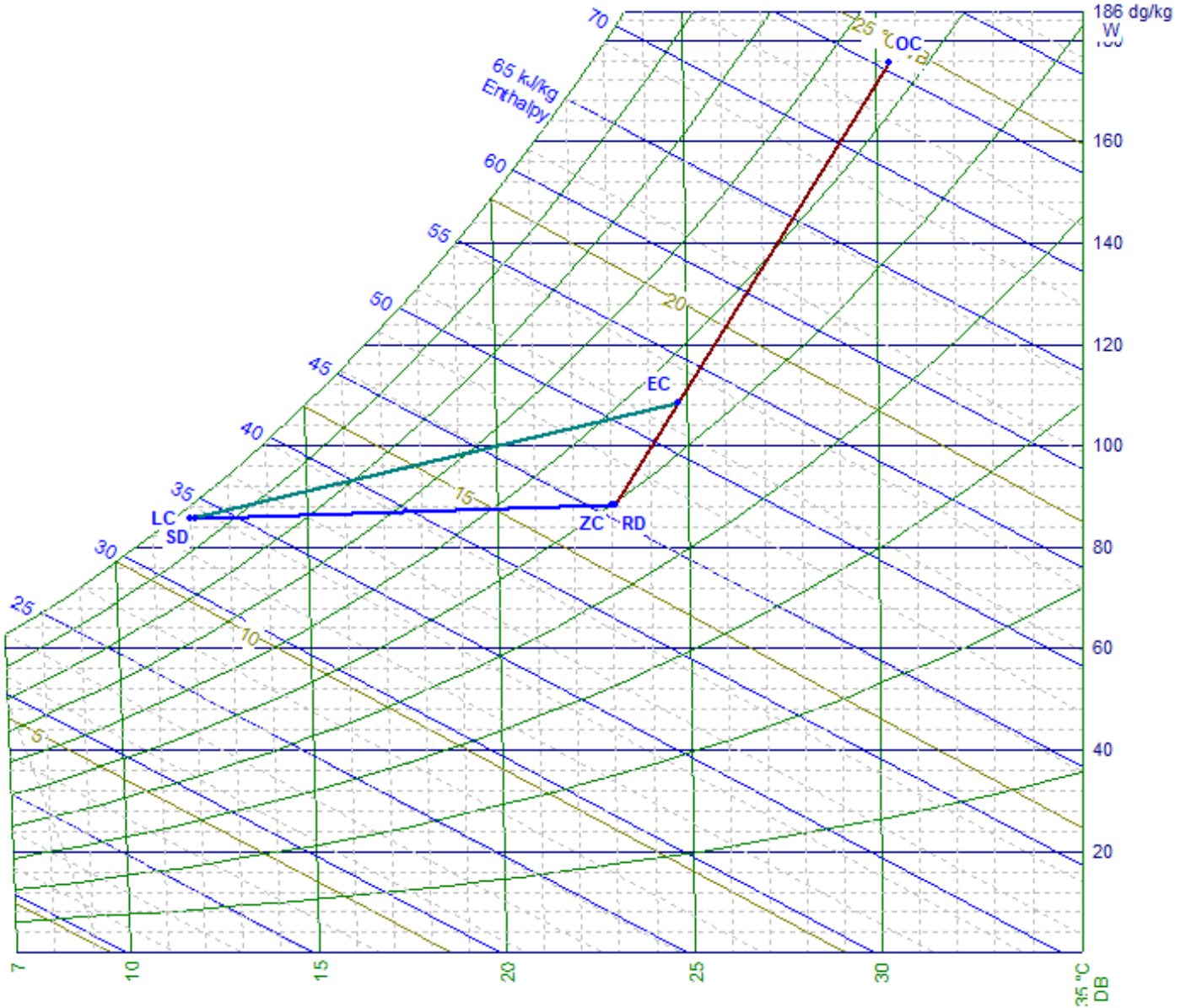
- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |





Air System #14 (Uma-n2-induc) Psychrometric Chart

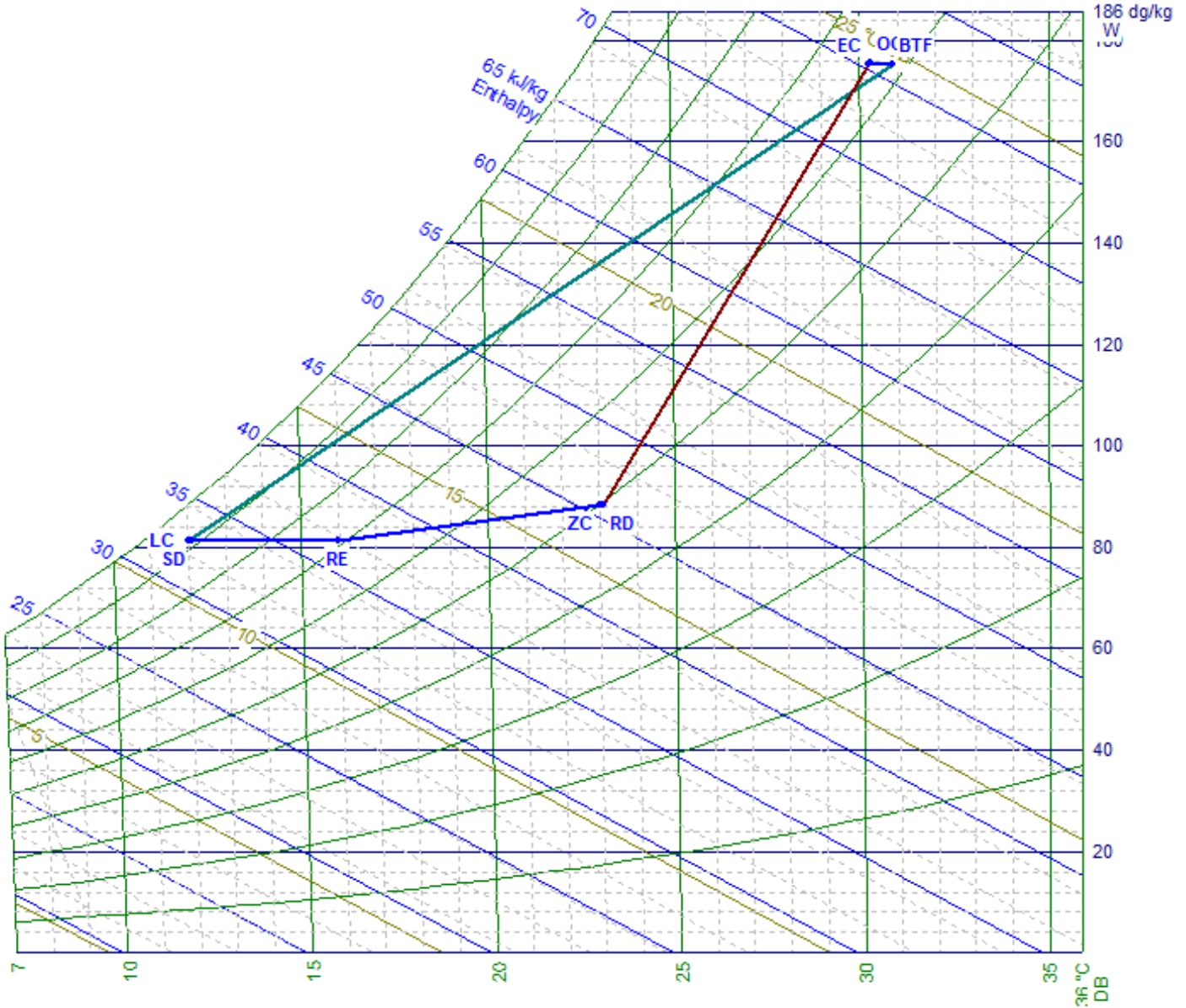
- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |





Air System #15 (Uma-n2-so-cirurgía) Psychrometric Chart

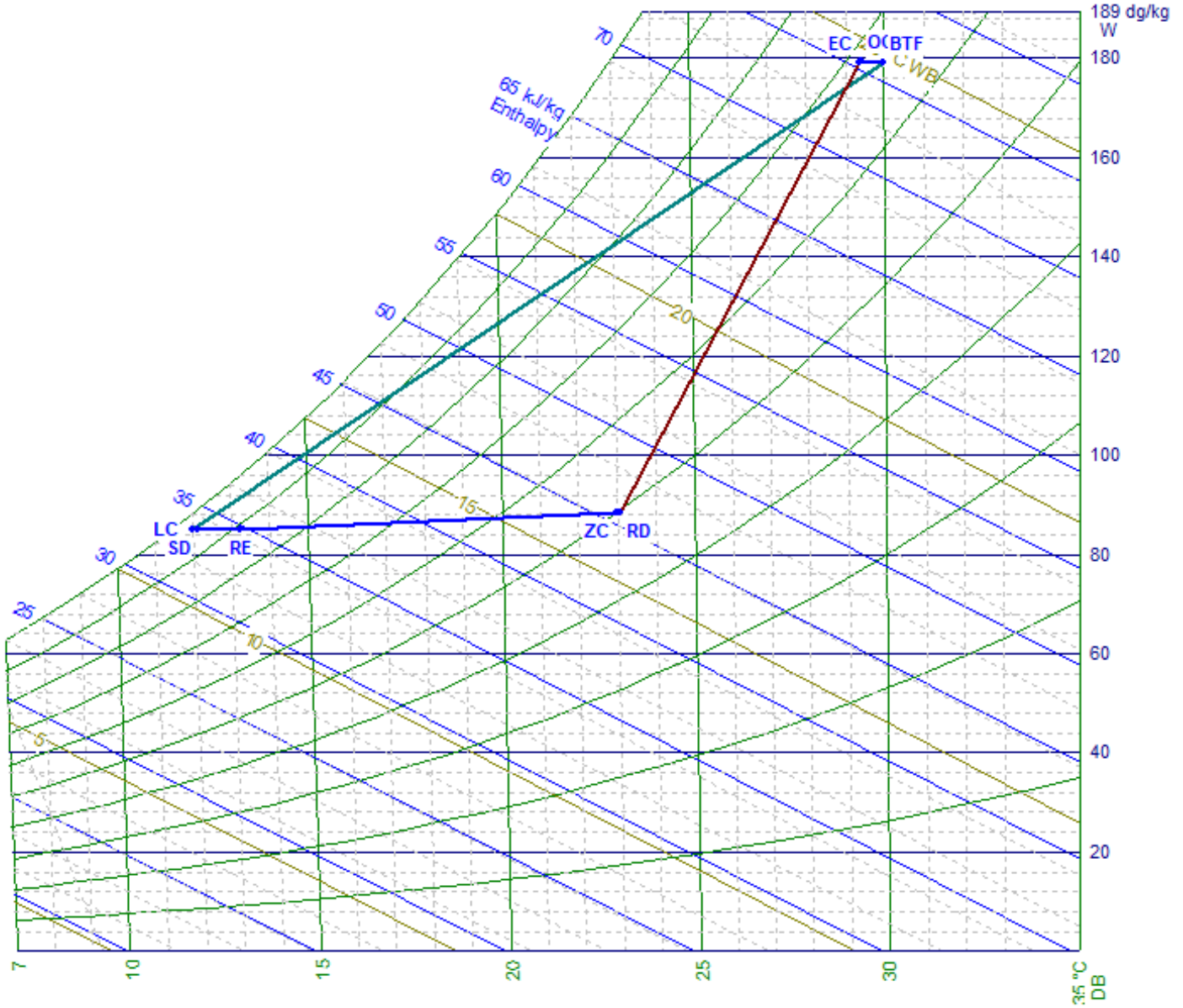
<p>ZC Zone Condition LC Leaving Coil Condition SD Supply Duct Temperature Rise DTF Draw Through Fan Sensible Gain RE Reserve or Reheat Sensible Gain SM Supply Side Miscellaneous Sensible Gain PRE Pretreated Air Condition</p>	<p>OC Outdoor Condition EC Entering Coil Condition RD Return Duct Temperature Rise BTF Blow Through Fan Sensible Gain PL Return Air Plenum Sensible Gain RM Return Side Miscellaneous Gain</p>
--	---





Air System #17 (Uma-n2-lab. Inmunoheemt.) Psychrometric Chart

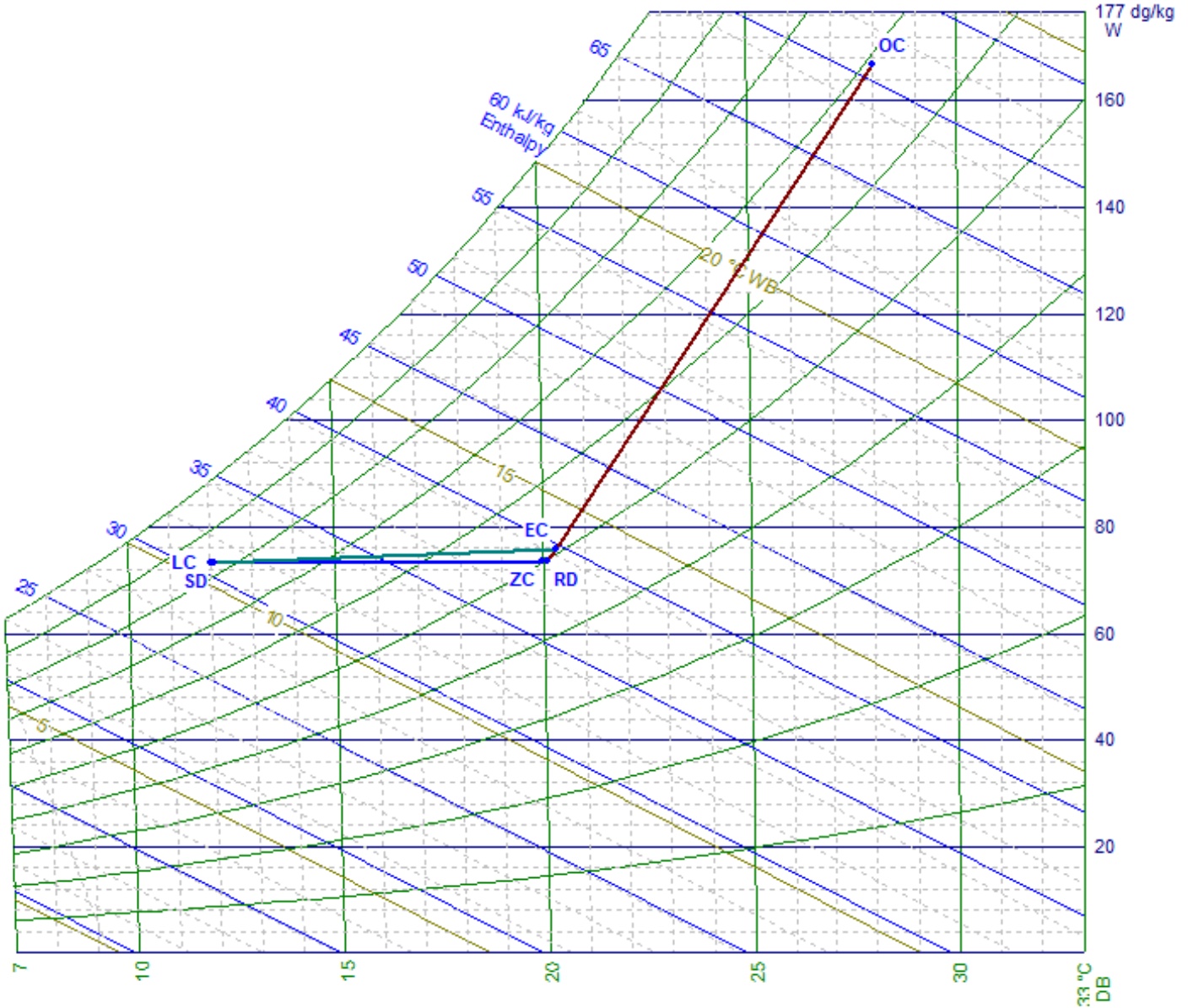
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #18 (N2 Unidad Precisión) Psychrometric Chart

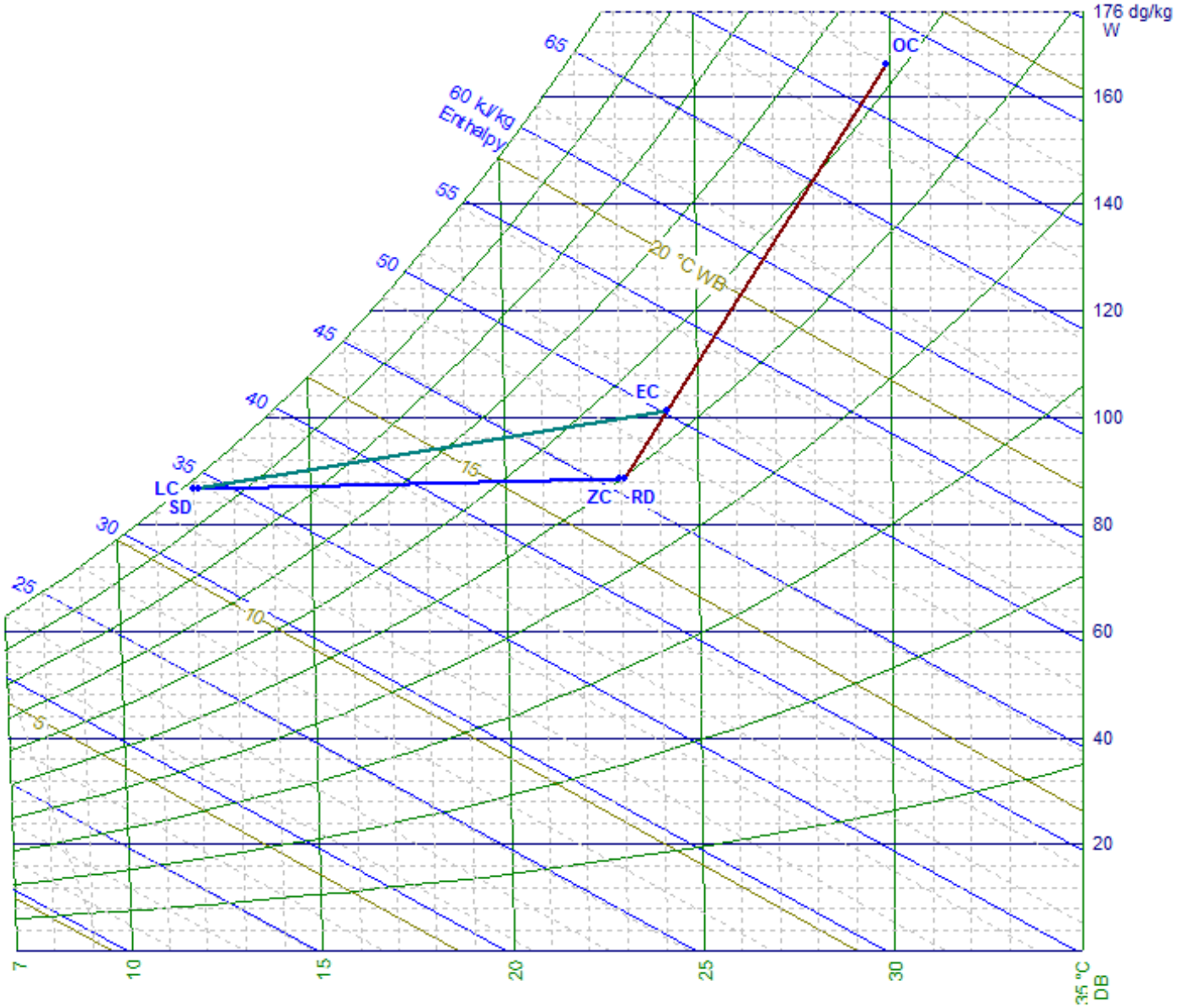
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #19 (Uma-n3-hosp) Psychrometric Chart

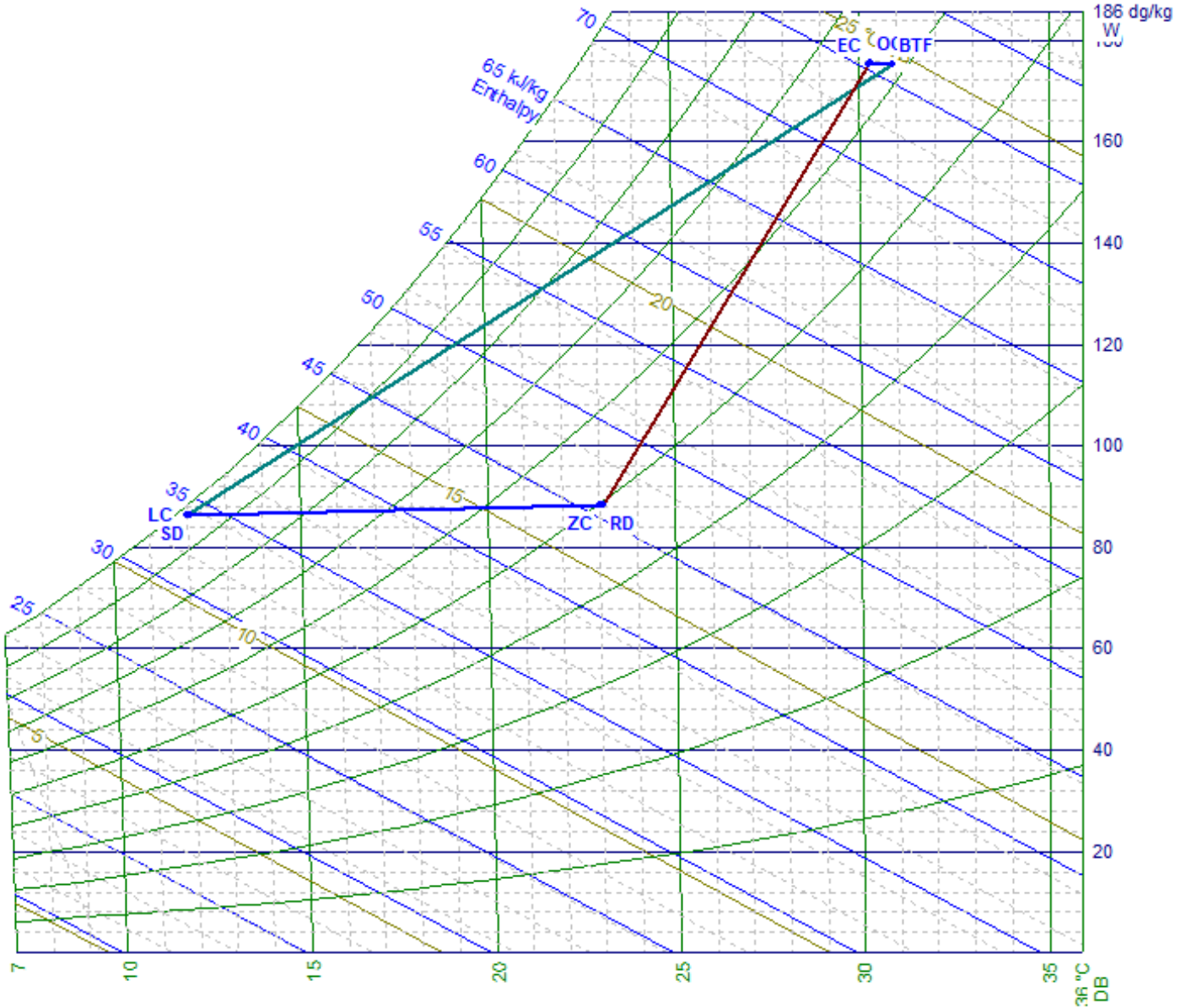
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #20 (Uma-n3-aisl.pediat) Psychrometric Chart

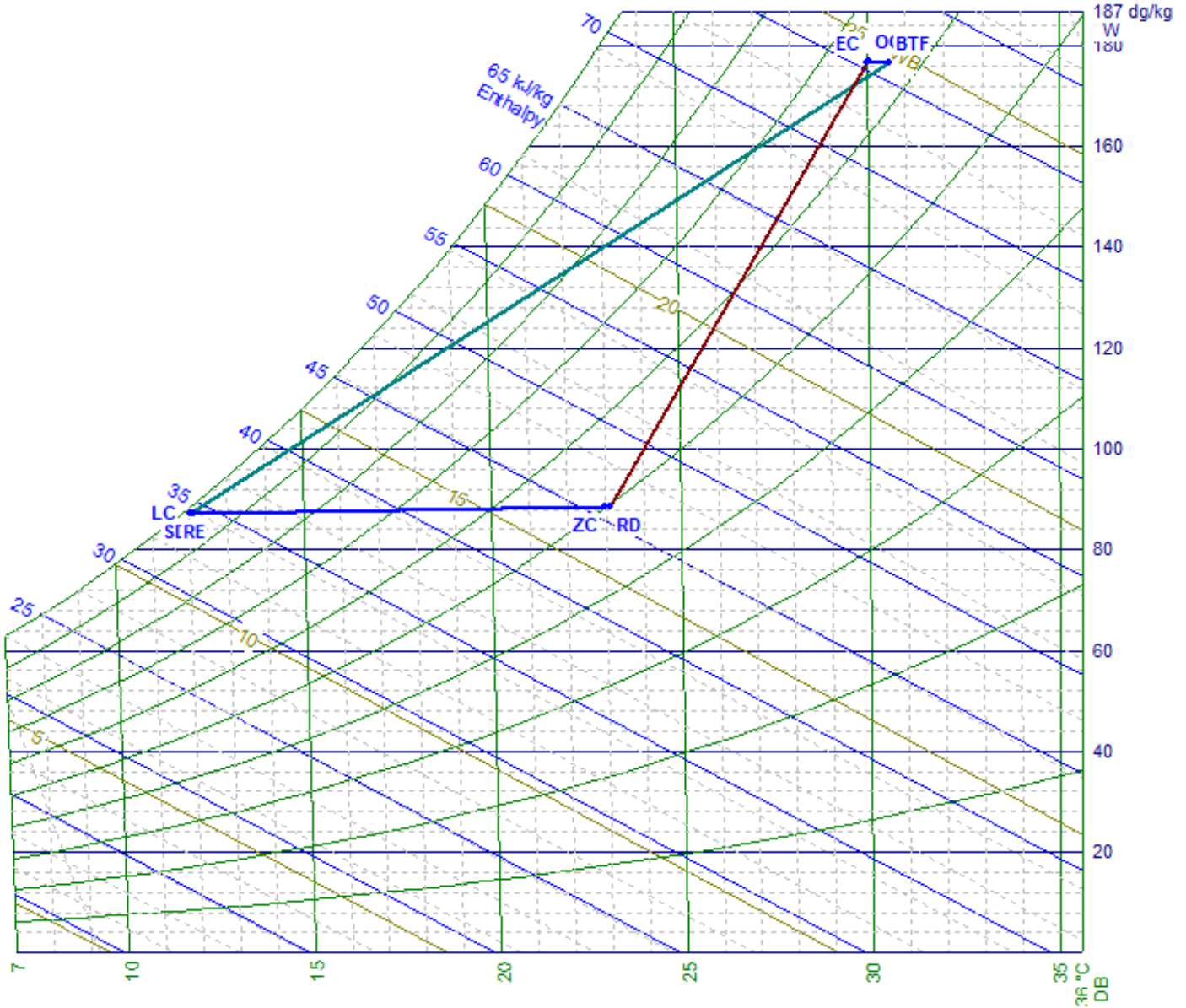
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #21 (Uma-n3-aisl.adulto) Psychrometric Chart

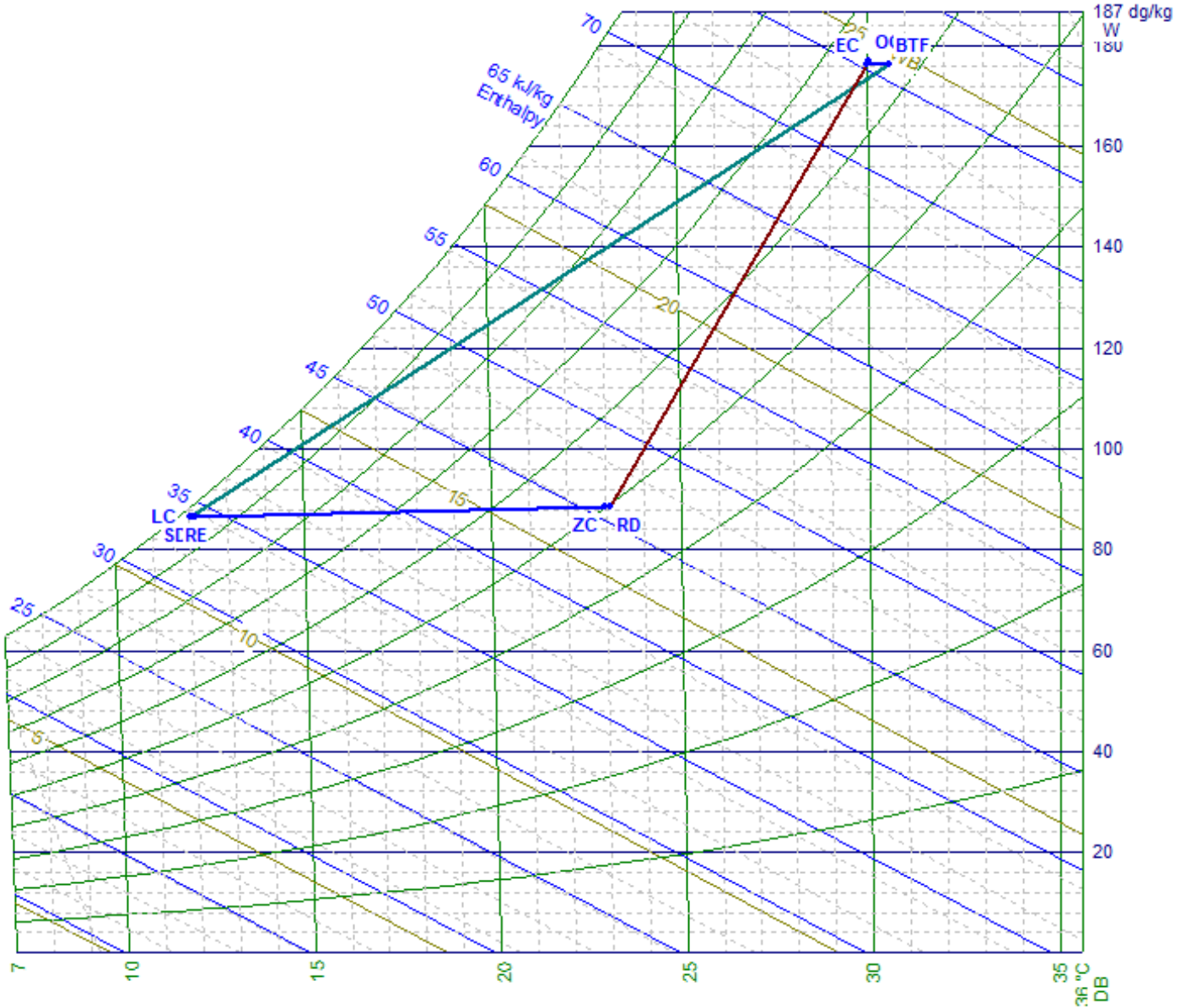
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #22 (Uma-n3-aisl.obst) Psychrometric Chart

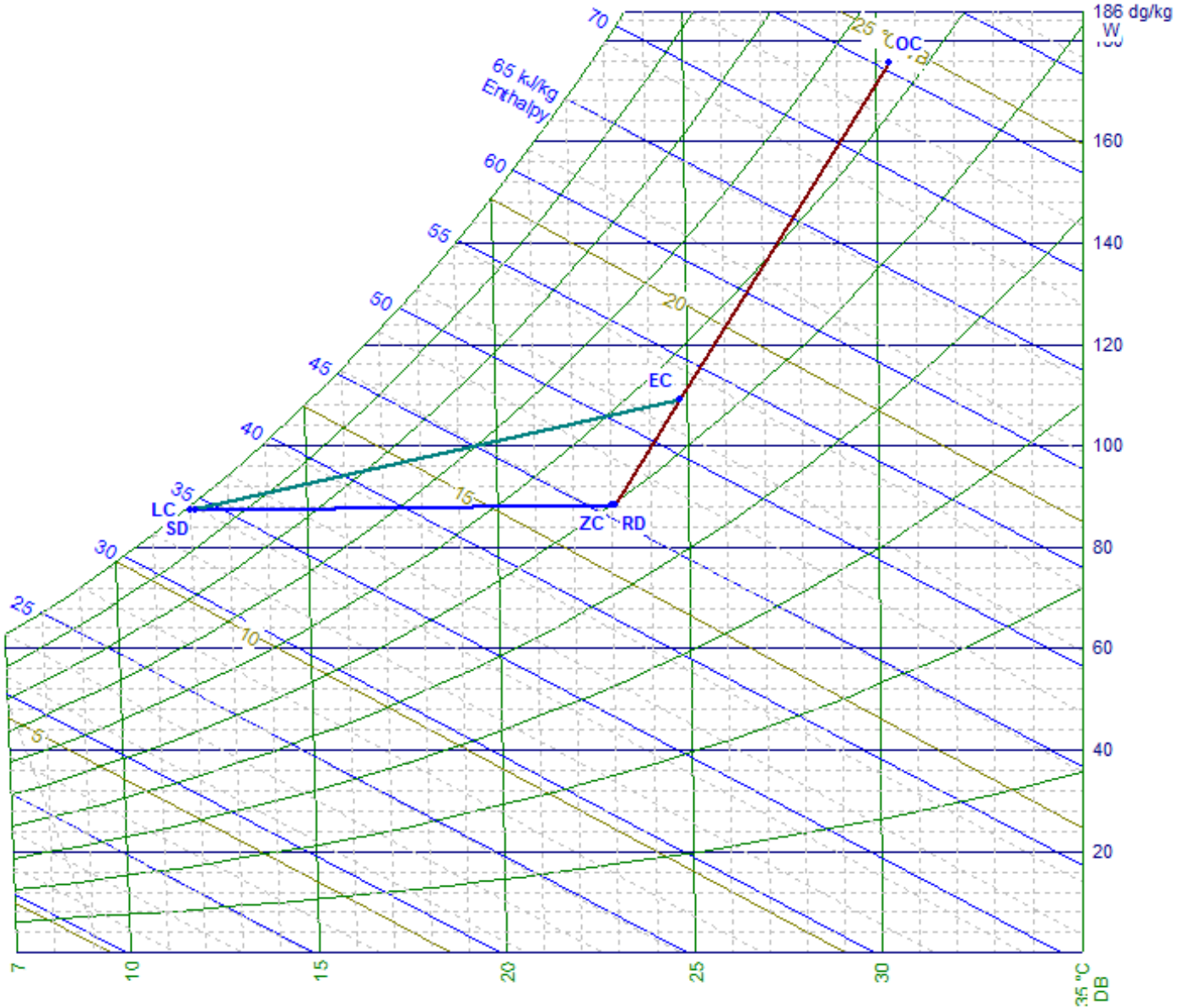
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #24 (Uma-n2-recup) Psychrometric Chart

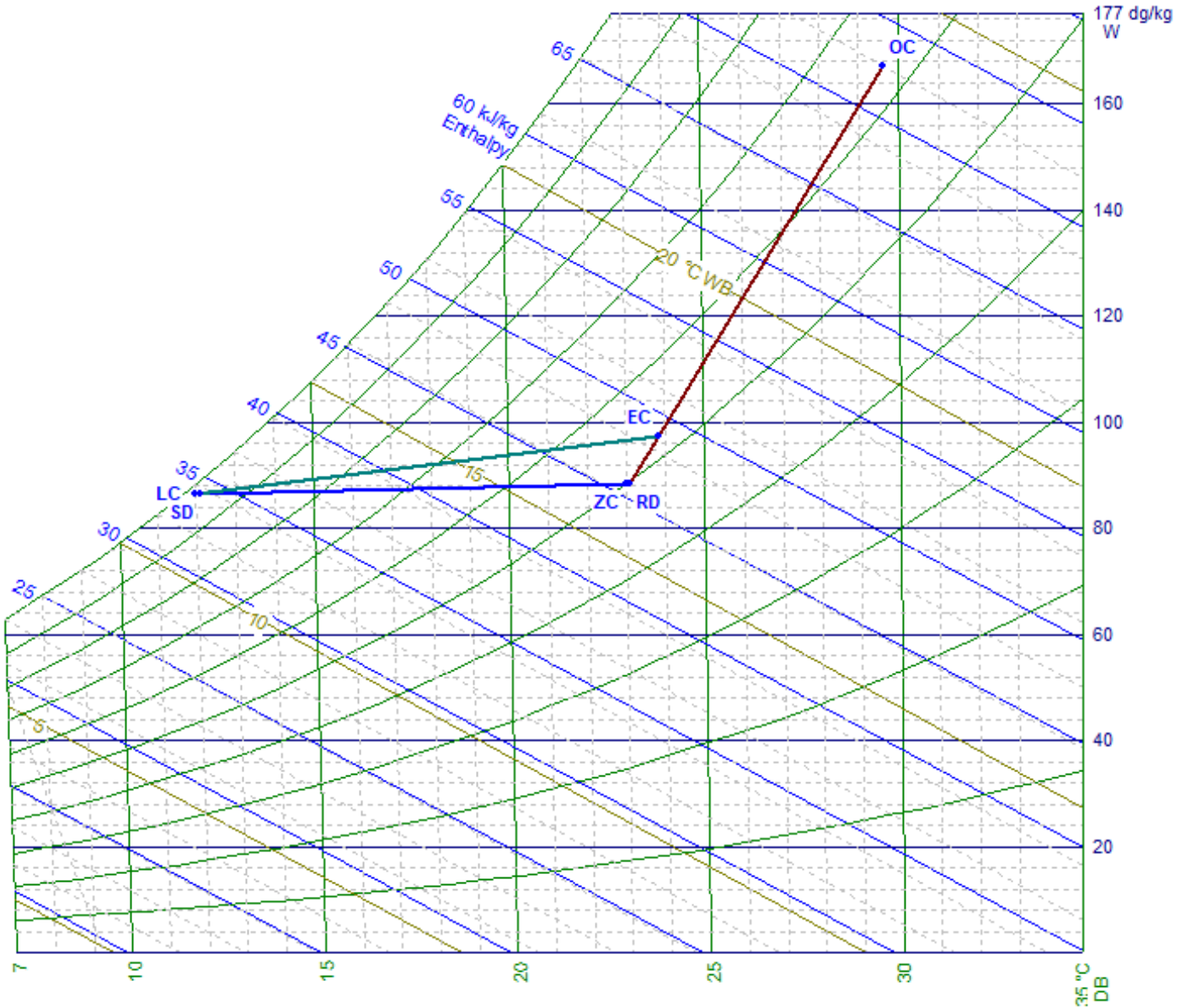
ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #26 (Uma-n3-hosp.obst) Psychrometric Chart

ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		





Air System #27 (Uma-n3-hosp.ped) Psychrometric Chart

ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pretreated Air Condition		

