

# PEAK COOLING LOADS

## MAIN SYSTEM

By RLF

			SPACE								COIL								
			Floor Area ft²	Peak Time Mo/Hr	OA Condition		Room Dry Bulb °F	Supply Dry Bulb °F	Space Air Flow cfm	Space Sensible Load Btu/h	Space Latent Load Btu/h	Peak Time Mo/Hr	OA Condition		Supply Dry Bulb °F	Coil Airflow cfm	Coil Sensible Load Btu/h	Coil Latent Load Btu/h	
System	Zone	Room			DB °F	WB °F							DB °F	WB °F					
Alternative 1																			
		117 BREAK ROOM	Peak	185	7/18	85	77	75.0	51.6	192	5,001	2,328	7/17	87	78	51.6	191	5,549	2,385
		118 S TLT	Peak	44	7/18	85	77	75.0	51.6	74	1,937	173	7/18	85	77	51.6	74	2,730	173
		Zone - 1-1-1	Peak	229		85	77	75.0	51.6	266	6,938	2,501		87	78	51.6	265	8,279	2,558
		Zone - 1-1-1	Block	229	7/18	85	77	75.0	51.6	266	6,938	2,501	7/17	87	78	51.6	262	8,254	2,572
		119 CONF/CONSULT	Peak	102	8/17	86	78	75.0	51.6	149	3,883	1,224	8/17	86	78	51.6	149	4,546	1,224
		120 PROVIDER OFF	Peak	113	8/17	86	78	75.0	51.6	132	3,438	869	8/17	86	78	51.6	132	4,184	869
		Zone - 1-1-2	Peak	215		86	78	75.0	51.6	280	7,321	2,093		86	78	51.6	280	8,730	2,093
		Zone - 1-1-2	Block	215	8/17	86	78	75.0	51.6	280	7,321	2,093	8/17	86	78	51.6	280	8,730	2,093
		111 TEAM STATION	Peak	150	7/15	88	78	75.0	51.6	85	2,224	1,403	7/16	88	78	51.6	85	2,427	1,443
		125 TEAM STATION	Peak	198	7/15	88	78	75.0	51.6	119	3,115	1,996	7/16	88	78	51.6	119	3,434	2,049
		126 B TLT	Peak	198	7/15	88	78	75.0	51.6	36	939	796	7/16	88	78	51.6	35	1,029	849
		129 CORR CENTRAL	Peak	125	7/15	88	78	75.0	51.6	23	591	501	7/16	88	78	51.6	22	760	534
		130 CORR	Peak	99	7/15	88	78	75.0	51.6	18	470	398	7/16	88	78	51.6	18	604	424
		131 CORR	Peak	224	7/15	88	78	75.0	51.6	41	1,063	901	7/16	88	78	51.6	40	1,366	960
		132 CORR NORTH	Peak	113	7/15	88	78	75.0	51.6	21	538	456	7/16	88	78	51.6	20	741	486
		Zone - 1-1-3	Peak	1,107		88	78	75.0	51.6	342	8,939	6,452		88	78	51.6	338	10,360	6,745
		Zone - 1-1-3	Block	1,107	7/15	88	78	75.0	51.6	342	8,939	6,452	7/16	88	78	51.6	338	10,360	6,745
		121 EXAM ROOM 10	Peak	116	8/17	86	78	75.0	51.6	192	5,011	882	8/17	86	78	51.6	192	5,897	882
		122 EXAM ROOM 9	Peak	116	8/17	86	78	75.0	51.6	185	4,825	882	8/17	86	78	51.6	185	5,649	882
		123 EXAM ROOM 8	Peak	116	8/17	86	78	75.0	51.6	156	4,060	882	8/17	86	78	51.6	156	4,882	882
		124 MECH	Peak	41	12/14	69	60	75.0	51.6	88	2,298	-5	11/14	75	63	51.6	87	3,005	9
		Zone - 1-1-4	Peak	389		84	76	75.0	51.6	620	16,194	2,640		84	76	51.6	620	19,433	2,655
		Zone - 1-1-4	Block	389	9/17	84	76	75.0	51.6	575	15,002	2,679	9/17	84	76	51.6	575	17,964	2,679
		100 LOBBY	Peak	420	11/14	75	63	75.0	51.6	537	14,012	2,494	10/14	82	72	51.6	517	16,667	3,385
		101 W TLT	Peak	47	7/15	88	78	75.0	51.6	9	223	189	7/15	88	78	51.6	9	308	189
		102 M TLT	Peak	47	7/15	88	78	75.0	51.6	9	223	189	7/15	88	78	51.6	9	308	189
		Zone - 1-2-1	Peak	514		75	63	75.0	51.6	554	14,458	2,872		82	72	51.6	534	17,422	3,763
		Zone - 1-2-1	Block	514	11/14	75	63	75.0	51.6	548	14,309	2,515	10/14	82	72	51.6	537	17,364	3,605
		113 ELEC	Peak	55	6/18	81	73	75.0	51.6	35	921	156	7/15	88	78	51.6	35	1,095	221
		114 EVS	Peak	57	6/18	81	73	75.0	51.6	38	986	161	7/17	87	78	51.6	37	1,154	242
		115 SOIL	Peak	56	7/15	88	78	75.0	51.6	19	505	225	7/15	88	78	51.6	19	668	225
		116 MANAGER OFF	Peak	102	7/18	85	77	75.0	51.6	71	1,850	801	7/17	87	78	51.6	71	2,123	833
		Zone - 1-2-2	Peak	270		85	77	75.0	51.6	163	4,263	1,343		87	78	51.6	163	5,039	1,521
		Zone - 1-2-2	Block	270	7/18	85	77	75.0	51.6	163	4,253	1,462	7/17	87	78	51.6	162	4,972	1,545

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					DB °F	WB °F							DB °F	WB °F					
System	Zone	Room																	
		109 PROVIDER OFF	Peak	117	6/18	81	73	75.0	51.6	96	2,503	731	7 /17	87	78	51.6	95	2,826	896
		112 POC	Peak	20	7/15	88	78	75.0	51.6	4	95	80	7 /16	88	78	51.6	4	123	86
		129 CORR NORTH	Peak	77	7/15	88	78	75.0	51.6	35	917	308	7 /15	88	78	51.6	35	1,184	308
	Zone - 1-2-3		Peak	214		85	77	75.0	51.6	135	3,515	1,120		87	78	51.6	134	4,133	1,290
	Zone - 1-2-3		Block	214	7/18	85	77	75.0	51.6	132	3,458	1,240	7 /17	87	78	51.6	132	4,064	1,306
		105 EXAM ROOM 2	Peak	117	7/15	88	78	75.0	51.6	56	1,454	871	7 /15	88	78	51.6	56	1,665	871
		106 EXAM ROOM 3	Peak	117	7/15	88	78	75.0	51.6	56	1,454	871	7 /15	88	78	51.6	56	1,658	871
		107 EXAMS ROOM 4	Peak	117	7/15	88	78	75.0	51.6	56	1,454	871	7 /16	88	78	51.6	55	1,613	902
		108 EXAM ROOM 5	Peak	117	7/15	88	78	75.0	51.6	56	1,454	871	7 /16	88	78	51.6	55	1,613	902
	Zone - 1-2-4		Peak	468		88	78	75.0	51.6	223	5,818	3,482		88	78	51.6	222	6,549	3,544
	Zone - 1-2-4		Block	468	7/15	88	78	75.0	51.6	223	5,818	3,482	7 /15	88	78	51.6	223	6,607	3,482
		103 RECEPTION/SCHEDULING	Peak	325	7/15	88	78	75.0	51.6	140	3,651	2,107	7 /15	88	78	51.6	140	4,244	2,107
		110 EXAM ROOM 6	Peak	116	7/15	88	78	75.0	51.6	55	1,446	867	7 /15	88	78	51.6	55	1,646	867
		127 CLEAN STORAGE	Peak	92	7/15	88	78	75.0	51.6	17	436	370	7 /16	88	78	51.6	16	612	394
		128 COMM	Peak	90	7/15	88	78	75.0	51.6	476	12,427	362	7 /15	88	78	51.6	476	12,690	362
		132 CORR SOUTH	Peak	166	11/15	75	64	75.0	51.6	82	2,143	52	9 /15	86	77	51.6	75	2,504	615
	Zone - 1-2-5		Peak	789		86	77	75.0	51.6	770	20,103	3,758		87	78	51.6	762	21,695	4,345
	Zone - 1-2-5		Block	789	9/15	86	77	75.0	51.6	756	19,739	4,128	8 /15	87	78	51.6	748	21,250	4,372
		104 EXAM ROOM 1	Peak	117	7/15	88	78	75.0	51.6	87	2,274	871	7 /15	88	78	51.6	87	2,688	871
		129 CORR SOUTH	Peak	155	10/14	82	72	75.0	51.6	61	1,583	363	9 /14	86	76	51.6	57	2,080	533
	Zone - 1-2-6		Peak	272		86	76	75.0	51.6	148	3,858	1,233		86	76	51.6	145	4,768	1,404
	Zone - 1-2-6		Block	272	9/14	86	76	75.0	51.6	137	3,572	1,337	9 /14	86	76	51.6	137	4,601	1,337
AHU			Peak	4,466		86	77	75.0	51.6	3,501	91,406	27,495		87	78	51.6	3,463	106,269	29,918
AHU			Block	4,466	9/16	86	77	75.0	51.6	3,158	82,446	29,571	8 /16	87	78	51.6	3,112	94,210	30,560