

# SYSTEM LOAD PROFILES

By MFIA Inc.

**Proposed Building**  
**System - 002 1st South-East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	1.1	25	1,554	-20,210.4	49	1,163	144.9	23	1,946	0.0	0	0
5 - 10	2.1	18	1,156	-40,420.8	25	598	289.8	6	482	0.0	0	0
10 - 15	3.2	15	932	-60,631.2	18	429	434.6	0	19	0.0	0	0
15 - 20	4.2	10	613	-80,841.6	7	168	579.5	1	75	0.0	0	0
20 - 25	5.3	4	263	-101,052.0	0	0	724.4	1	60	0.0	0	0
25 - 30	6.3	3	220	-121,262.4	0	0	869.3	0	37	0.0	0	0
30 - 35	7.4	3	208	-141,472.8	0	0	1,014.1	1	114	0.0	0	0
35 - 40	8.5	4	227	-161,683.2	0	0	1,159.0	1	57	0.0	0	0
40 - 45	9.5	3	214	-181,893.6	0	0	1,303.9	1	68	0.0	0	0
45 - 50	10.6	3	213	-202,103.9	0	0	1,448.8	1	78	0.0	0	0
50 - 55	11.6	3	217	-222,314.3	0	0	1,593.6	1	50	0.0	0	0
55 - 60	12.7	3	193	-242,524.7	0	0	1,738.5	1	55	0.0	0	0
60 - 65	13.7	2	145	-262,735.1	0	0	1,883.4	0	24	0.0	0	0
65 - 70	14.8	1	93	-282,945.5	0	0	2,028.3	0	40	0.0	0	0
70 - 75	15.9	1	50	-303,155.9	0	0	2,173.1	0	19	0.0	0	0
75 - 80	16.9	0	30	-323,366.3	0	0	2,318.0	0	25	0.0	0	0
80 - 85	18.0	0	8	-343,576.7	0	0	2,462.9	0	30	0.0	0	0
85 - 90	19.0	0	0	-363,787.1	0	0	2,607.8	0	4	0.0	0	0
90 - 95	20.1	0	0	-383,997.5	0	0	2,752.6	0	0	0.0	0	0
95 - 100	21.1	0	0	-404,207.9	0	0	2,897.5	62	5,110	0.0	0	0
Hours Off	0.0	0	2,424	0.0	0	6,402	0.0	0	467	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**Proposed Building**  
**System - 003 1st North West**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	1.1	25	1,533	-22,117.3	51	1,184	159.4	16	1,211	0.0	0	0
5 - 10	2.3	22	1,356	-44,234.6	25	588	318.8	2	160	0.0	0	0
10 - 15	3.4	15	937	-66,352.0	20	473	478.2	1	74	0.0	0	0
15 - 20	4.6	7	415	-88,469.3	3	80	637.6	1	69	0.0	0	0
20 - 25	5.7	4	229	-110,586.6	0	0	797.0	0	33	0.0	0	0
25 - 30	6.9	4	227	-132,703.9	0	0	956.4	0	26	0.0	0	0
30 - 35	8.0	3	200	-154,821.2	0	0	1,115.8	1	66	0.0	0	0
35 - 40	9.1	4	248	-176,938.6	0	0	1,275.2	1	91	0.0	0	0
40 - 45	10.3	3	217	-199,055.9	0	0	1,434.6	1	82	0.0	0	0
45 - 50	11.4	3	200	-221,173.2	0	0	1,594.0	1	91	0.0	0	0
50 - 55	12.6	3	204	-243,290.5	0	0	1,753.4	1	91	0.0	0	0
55 - 60	13.7	3	186	-265,407.8	0	0	1,912.8	1	80	0.0	0	0
60 - 65	14.8	2	119	-287,525.1	0	0	2,072.2	1	67	0.0	0	0
65 - 70	16.0	1	76	-309,642.4	0	0	2,231.6	1	54	0.0	0	0
70 - 75	17.1	1	49	-331,759.8	0	0	2,391.0	1	57	0.0	0	0
75 - 80	18.3	0	29	-353,877.1	0	0	2,550.4	1	50	0.0	0	0
80 - 85	19.4	0	7	-375,994.4	0	0	2,709.8	1	40	0.0	0	0
85 - 90	20.6	0	0	-398,111.7	0	0	2,869.2	0	30	0.0	0	0
90 - 95	21.7	0	0	-420,229.0	0	0	3,028.6	1	38	0.0	0	0
95 - 100	22.8	0	0	-442,346.3	0	0	3,188.0	68	5,125	0.0	0	0
Hours Off	0.0	0	2,528	0.0	0	6,435	0.0	0	1,225	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**Proposed Building**  
**System - 004 1st North East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
5 - 10	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
10 - 15	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
15 - 20	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
20 - 25	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
25 - 30	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
30 - 35	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
35 - 40	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
40 - 45	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
45 - 50	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
50 - 55	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
55 - 60	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
60 - 65	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
65 - 70	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
70 - 75	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
75 - 80	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
80 - 85	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
85 - 90	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
90 - 95	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
95 - 100	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Hours Off	0.0	0	8,760	0.0	0	8,760	0.0	0	8,760	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**Proposed Building  
System Totals**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	2.2	27	1,803	-42,327.7	54	1,366	304.3	26	2,163	0.0	0	0
5 - 10	4.4	20	1,293	-84,655.4	22	559	608.6	2	132	0.0	0	0
10 - 15	6.6	15	963	-126,983.1	19	469	912.8	1	79	0.0	0	0
15 - 20	8.8	7	492	-169,310.8	5	125	1,217.1	1	57	0.0	0	0
20 - 25	11.0	4	253	-211,638.6	0	0	1,521.4	1	50	0.0	0	0
25 - 30	13.2	3	214	-253,966.3	0	0	1,825.7	1	79	0.0	0	0
30 - 35	15.4	3	206	-296,294.0	0	0	2,129.9	1	105	0.0	0	0
35 - 40	17.6	3	230	-338,621.7	0	0	2,434.2	1	101	0.0	0	0
40 - 45	19.8	3	221	-380,949.4	0	0	2,738.5	1	66	0.0	0	0
45 - 50	22.0	3	207	-423,277.1	0	0	3,042.8	1	65	0.0	0	0
50 - 55	24.2	3	214	-465,604.8	0	0	3,347.0	1	70	0.0	0	0
55 - 60	26.4	3	185	-507,932.5	0	0	3,651.3	1	58	0.0	0	0
60 - 65	28.6	2	137	-550,260.3	0	0	3,955.6	1	65	0.0	0	0
65 - 70	30.8	1	78	-592,588.0	0	0	4,259.9	0	39	0.0	0	0
70 - 75	33.0	1	54	-634,915.7	0	0	4,564.2	0	35	0.0	0	0
75 - 80	35.2	0	25	-677,243.4	0	0	4,868.4	0	30	0.0	0	0
80 - 85	37.4	0	8	-719,571.1	0	0	5,172.7	0	30	0.0	0	0
85 - 90	39.6	0	0	-761,898.8	0	0	5,477.0	0	36	0.0	0	0
90 - 95	41.8	0	0	-804,226.6	0	0	5,781.3	0	6	0.0	0	0
95 - 100	44.0	0	0	-846,554.3	0	0	6,085.5	61	5,110	0.0	0	0
Hours Off	0.0	0	2,177	0.0	0	6,241	0.0	0	384	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 001 1st South-West**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.3	10	317	-3,198.7	30	676	110.5	3	222	0.0	0	0
5 - 10	0.6	7	223	-6,397.4	36	815	221.1	3	166	0.0	0	0
10 - 15	0.9	7	224	-9,596.1	20	465	331.6	2	124	0.0	0	0
15 - 20	1.2	8	257	-12,794.8	11	257	442.1	2	122	0.0	0	0
20 - 25	1.5	9	268	-15,993.4	1	34	552.7	3	183	0.0	0	0
25 - 30	1.9	9	286	-19,192.1	1	18	663.2	4	243	0.0	0	0
30 - 35	2.2	8	253	-22,390.8	0	7	773.7	3	211	0.0	0	0
35 - 40	2.5	6	175	-25,589.5	0	1	884.3	1	88	0.0	0	0
40 - 45	2.8	5	141	-28,788.2	0	1	994.8	0	14	0.0	0	0
45 - 50	3.1	5	170	-31,986.9	0	0	1,105.4	0	5	0.0	0	0
50 - 55	3.4	6	191	-35,185.6	0	0	1,215.9	0	0	0.0	0	0
55 - 60	3.7	6	181	-38,384.2	0	0	1,326.4	0	0	0.0	0	0
60 - 65	4.0	4	130	-41,582.9	0	0	1,437.0	0	0	0.0	0	0
65 - 70	4.3	4	112	-44,781.6	0	0	1,547.5	0	0	0.0	0	0
70 - 75	4.6	2	68	-47,980.3	0	0	1,658.0	0	0	0.0	0	0
75 - 80	4.9	2	54	-51,179.0	0	0	1,768.6	0	0	0.0	0	0
80 - 85	5.2	1	40	-54,377.7	0	0	1,879.1	0	0	0.0	0	0
85 - 90	5.5	1	21	-57,576.4	0	0	1,989.6	0	0	0.0	0	0
90 - 95	5.8	0	6	-60,775.0	0	0	2,100.2	0	0	0.0	0	0
95 - 100	6.2	0	0	-63,973.7	0	0	2,210.7	79	5,110	0.0	0	0
Hours Off	0.0	0	5,643	0.0	0	6,486	0.0	0	2,272	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 002 1st South-East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.4	11	380	-2,716.4	61	1,654	130.0	5	344	0.0	0	0
5 - 10	0.8	9	295	-5,432.8	29	782	260.1	2	159	0.0	0	0
10 - 15	1.1	11	368	-8,149.2	7	201	390.1	2	146	0.0	0	0
15 - 20	1.5	10	337	-10,865.6	1	31	520.2	2	130	0.0	0	0
20 - 25	1.9	12	395	-13,582.0	1	22	650.2	3	195	0.0	0	0
25 - 30	2.3	10	342	-16,298.4	1	17	780.2	5	365	0.0	0	0
30 - 35	2.7	6	209	-19,014.8	0	12	910.3	3	211	0.0	0	0
35 - 40	3.0	4	140	-21,731.2	0	2	1,040.3	1	51	0.0	0	0
40 - 45	3.4	6	189	-24,447.6	0	2	1,170.4	0	9	0.0	0	0
45 - 50	3.8	5	159	-27,164.0	0	0	1,300.4	0	3	0.0	0	0
50 - 55	4.2	4	120	-29,880.4	0	0	1,430.5	0	3	0.0	0	0
55 - 60	4.5	3	96	-32,596.8	0	0	1,560.5	0	3	0.0	0	0
60 - 65	4.9	3	93	-35,313.2	0	0	1,690.5	0	2	0.0	0	0
65 - 70	5.3	2	77	-38,029.6	0	0	1,820.6	0	3	0.0	0	0
70 - 75	5.7	2	57	-40,746.1	0	0	1,950.6	0	0	0.0	0	0
75 - 80	6.1	2	57	-43,462.5	0	0	2,080.7	0	2	0.0	0	0
80 - 85	6.4	2	53	-46,178.9	0	0	2,210.7	0	0	0.0	0	0
85 - 90	6.8	0	17	-48,895.3	0	0	2,340.7	0	0	0.0	0	0
90 - 95	7.2	1	21	-51,611.7	0	0	2,470.8	0	0	0.0	0	0
95 - 100	7.6	0	8	-54,328.1	0	0	2,600.8	76	5,110	0.0	0	0
Hours Off	0.0	0	5,347	0.0	0	6,037	0.0	0	2,024	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 003 1st North West**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.1	12	395	-1,365.9	50	1,092	51.8	7	522	0.0	0	0
5 - 10	0.3	7	227	-2,731.7	10	212	103.6	2	153	0.0	0	0
10 - 15	0.4	7	213	-4,097.6	27	590	155.4	2	121	0.0	0	0
15 - 20	0.6	8	265	-5,463.4	7	148	207.2	1	102	0.0	0	0
20 - 25	0.7	8	249	-6,829.3	1	23	259.0	2	153	0.0	0	0
25 - 30	0.9	9	284	-8,195.1	2	48	310.8	8	621	0.0	0	0
30 - 35	1.0	10	326	-9,561.0	3	71	362.5	3	250	0.0	0	0
35 - 40	1.1	5	176	-10,926.8	0	1	414.3	2	175	0.0	0	0
40 - 45	1.3	4	145	-12,292.7	0	0	466.1	0	35	0.0	0	0
45 - 50	1.4	5	151	-13,658.5	0	0	517.9	0	20	0.0	0	0
50 - 55	1.6	4	136	-15,024.4	0	0	569.7	1	49	0.0	0	0
55 - 60	1.7	5	169	-16,390.2	0	0	621.5	1	40	0.0	0	0
60 - 65	1.9	4	136	-17,756.1	0	0	673.3	0	6	0.0	0	0
65 - 70	2.0	3	111	-19,121.9	0	0	725.1	0	26	0.0	0	0
70 - 75	2.1	3	93	-20,487.8	0	0	776.9	1	77	0.0	0	0
75 - 80	2.3	2	75	-21,853.6	0	0	828.7	0	0	0.0	0	0
80 - 85	2.4	2	49	-23,219.5	0	0	880.5	0	0	0.0	0	0
85 - 90	2.6	1	36	-24,585.4	0	0	932.3	0	0	0.0	0	0
90 - 95	2.7	1	20	-25,951.2	0	0	984.1	0	0	0.0	0	0
95 - 100	2.9	0	6	-27,317.1	0	0	1,035.8	68	5,110	0.0	0	0
Hours Off	0.0	0	5,498	0.0	0	6,575	0.0	0	1,300	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 004 1st North East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.3	9	317	-1,608.5	49	928	90.9	4	292	0.0	0	0
5 - 10	0.5	6	219	-3,217.0	39	748	181.7	3	171	0.0	0	0
10 - 15	0.8	8	269	-4,825.4	8	157	272.6	1	72	0.0	0	0
15 - 20	1.1	9	316	-6,433.9	1	23	363.4	1	47	0.0	0	0
20 - 25	1.3	11	370	-8,042.4	1	17	454.3	1	72	0.0	0	0
25 - 30	1.6	12	406	-9,650.9	1	13	545.1	2	100	0.0	0	0
30 - 35	1.8	8	289	-11,259.3	1	12	636.0	2	137	0.0	0	0
35 - 40	2.1	6	198	-12,867.8	0	3	726.8	3	178	0.0	0	0
40 - 45	2.4	4	149	-14,476.3	0	0	817.6	3	189	0.0	0	0
45 - 50	2.6	6	193	-16,084.8	0	2	908.5	2	165	0.0	0	0
50 - 55	2.9	4	152	-17,693.3	0	0	999.3	1	97	0.0	0	0
55 - 60	3.2	3	107	-19,301.7	0	0	1,090.2	0	17	0.0	0	0
60 - 65	3.4	3	101	-20,910.2	0	0	1,181.0	0	5	0.0	0	0
65 - 70	3.7	2	83	-22,518.7	0	0	1,271.9	0	2	0.0	0	0
70 - 75	3.9	2	62	-24,127.2	0	0	1,362.7	0	0	0.0	0	0
75 - 80	4.2	2	55	-25,735.6	0	0	1,453.6	0	0	0.0	0	0
80 - 85	4.5	2	72	-27,344.1	0	0	1,544.4	0	0	0.0	0	0
85 - 90	4.7	1	29	-28,952.6	0	0	1,635.3	0	0	0.0	0	0
90 - 95	5.0	1	20	-30,561.1	0	0	1,726.1	0	0	0.0	0	0
95 - 100	5.2	1	20	-32,169.6	0	0	1,817.0	77	5,110	0.0	0	0
Hours Off	0.0	0	5,333	0.0	0	6,857	0.0	0	2,106	0.0	0	8,760



# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 005 Teaching Kitchen**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.2	9	315	-1,249.9	13	141	62.3	3	211	0.0	0	0
5 - 10	0.4	6	214	-2,499.8	20	213	124.5	2	132	0.0	0	0
10 - 15	0.6	8	254	-3,749.7	45	480	186.7	1	90	0.0	0	0
15 - 20	0.7	8	265	-4,999.7	17	183	249.0	1	73	0.0	0	0
20 - 25	0.9	9	300	-6,249.6	2	17	311.2	0	30	0.0	0	0
25 - 30	1.1	9	308	-7,499.5	1	15	373.5	1	53	0.0	0	0
30 - 35	1.3	10	319	-8,749.4	1	6	435.7	1	73	0.0	0	0
35 - 40	1.5	7	219	-9,999.3	0	1	498.0	1	96	0.0	0	0
40 - 45	1.7	4	135	-11,249.2	0	1	560.2	3	173	0.0	0	0
45 - 50	1.8	4	131	-12,499.1	0	0	622.5	2	129	0.0	0	0
50 - 55	2.0	5	153	-13,749.0	0	0	684.7	2	132	0.0	0	0
55 - 60	2.2	4	138	-14,999.0	0	0	747.0	1	86	0.0	0	0
60 - 65	2.4	5	150	-16,248.9	0	0	809.2	0	21	0.0	0	0
65 - 70	2.6	4	129	-17,498.8	0	0	871.5	0	3	0.0	0	0
70 - 75	2.7	2	82	-18,748.7	0	0	933.7	0	5	0.0	0	0
75 - 80	2.9	2	69	-19,998.6	0	0	996.0	0	0	0.0	0	0
80 - 85	3.1	2	67	-21,248.5	0	0	1,058.2	0	0	0.0	0	0
85 - 90	3.3	1	30	-22,498.4	0	0	1,120.5	0	0	0.0	0	0
90 - 95	3.5	1	22	-23,748.4	0	0	1,182.7	0	0	0.0	0	0
95 - 100	3.7	0	16	-24,998.3	0	0	1,245.0	80	5,110	0.0	0	0
Hours Off	0.0	0	5,444	0.0	0	7,703	0.0	0	2,343	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 006 2nd South-West**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.4	11	358	-3,551.8	65	1,319	121.3	3	195	0.0	0	0
5 - 10	0.7	8	260	-7,103.6	6	122	242.5	3	174	0.0	0	0
10 - 15	1.1	8	260	-10,655.4	20	403	363.8	2	99	0.0	0	0
15 - 20	1.5	10	323	-14,207.2	9	174	485.0	2	98	0.0	0	0
20 - 25	1.8	8	281	-17,759.1	1	15	606.3	3	202	0.0	0	0
25 - 30	2.2	9	291	-21,310.9	0	2	727.6	4	219	0.0	0	0
30 - 35	2.6	9	306	-24,862.7	0	0	848.8	2	134	0.0	0	0
35 - 40	3.0	6	193	-28,414.5	0	0	970.1	0	15	0.0	0	0
40 - 45	3.3	4	122	-31,966.3	0	0	1,091.3	0	3	0.0	0	0
45 - 50	3.7	4	124	-35,518.1	0	0	1,212.6	0	0	0.0	0	0
50 - 55	4.1	4	122	-39,069.9	0	0	1,333.9	0	0	0.0	0	0
55 - 60	4.4	4	142	-42,621.7	0	0	1,455.1	0	0	0.0	0	0
60 - 65	4.8	5	171	-46,173.5	0	0	1,576.4	0	0	0.0	0	0
65 - 70	5.2	4	122	-49,725.3	0	0	1,697.6	0	0	0.0	0	0
70 - 75	5.5	3	95	-53,277.2	0	0	1,818.9	0	0	0.0	0	0
75 - 80	5.9	3	95	-56,829.0	0	0	1,940.1	0	0	0.0	0	0
80 - 85	6.3	2	52	-60,380.8	0	0	2,061.4	0	0	0.0	0	0
85 - 90	6.6	1	28	-63,932.6	0	0	2,182.7	0	0	0.0	0	0
90 - 95	7.0	0	13	-67,484.4	0	0	2,303.9	0	0	0.0	0	0
95 - 100	7.4	0	0	-71,036.2	0	0	2,425.2	82	5,110	0.0	0	0
Hours Off	0.0	0	5,402	0.0	0	6,725	0.0	0	2,511	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 007 2nd South-East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.4	11	362	-3,489.5	57	1,466	127.1	3	222	0.0	0	0
5 - 10	0.8	10	307	-6,979.0	10	269	254.2	3	167	0.0	0	0
10 - 15	1.1	9	283	-10,468.5	27	681	381.3	2	149	0.0	0	0
15 - 20	1.5	9	281	-13,958.0	5	120	508.3	5	323	0.0	0	0
20 - 25	1.9	9	297	-17,447.5	1	19	635.4	6	410	0.0	0	0
25 - 30	2.3	10	313	-20,937.0	0	5	762.5	2	152	0.0	0	0
30 - 35	2.6	7	219	-24,426.5	0	2	889.6	0	14	0.0	0	0
35 - 40	3.0	5	149	-27,916.0	0	0	1,016.7	0	0	0.0	0	0
40 - 45	3.4	5	146	-31,405.5	0	0	1,143.8	0	0	0.0	0	0
45 - 50	3.8	5	162	-34,895.0	0	0	1,270.9	0	0	0.0	0	0
50 - 55	4.2	4	132	-38,384.5	0	0	1,398.0	0	0	0.0	0	0
55 - 60	4.5	3	100	-41,874.0	0	0	1,525.0	0	0	0.0	0	0
60 - 65	4.9	3	87	-45,363.5	0	0	1,652.1	0	0	0.0	0	0
65 - 70	5.3	3	93	-48,853.0	0	0	1,779.2	0	0	0.0	0	0
70 - 75	5.7	3	81	-52,342.5	0	0	1,906.3	0	0	0.0	0	0
75 - 80	6.0	2	55	-55,832.0	0	0	2,033.4	0	0	0.0	0	0
80 - 85	6.4	2	55	-59,321.5	0	0	2,160.5	0	0	0.0	0	0
85 - 90	6.8	1	42	-62,811.0	0	0	2,287.6	0	0	0.0	0	0
90 - 95	7.2	0	15	-66,300.5	0	0	2,414.6	0	0	0.0	0	0
95 - 100	7.5	1	25	-69,790.0	0	0	2,541.7	78	5,110	0.0	0	0
Hours Off	0.0	0	5,556	0.0	0	6,198	0.0	0	2,213	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 008 2nd North-West**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.2	13	471	-2,294.5	31	350	79.0	3	184	0.0	0	0
5 - 10	0.5	10	354	-4,589.0	17	188	158.1	2	122	0.0	0	0
10 - 15	0.7	12	435	-6,883.5	43	478	237.1	2	120	0.0	0	0
15 - 20	1.0	11	389	-9,178.0	8	85	316.2	2	129	0.0	0	0
20 - 25	1.2	8	303	-11,472.4	1	9	395.2	5	301	0.0	0	0
25 - 30	1.4	8	306	-13,766.9	0	2	474.3	4	247	0.0	0	0
30 - 35	1.7	7	239	-16,061.4	0	0	553.3	1	50	0.0	0	0
35 - 40	1.9	3	115	-18,355.9	0	0	632.3	0	7	0.0	0	0
40 - 45	2.2	3	119	-20,650.4	0	0	711.4	0	0	0.0	0	0
45 - 50	2.4	3	107	-22,944.9	0	0	790.4	0	0	0.0	0	0
50 - 55	2.7	3	113	-25,239.4	0	0	869.5	0	0	0.0	0	0
55 - 60	2.9	4	154	-27,533.9	0	0	948.5	0	0	0.0	0	0
60 - 65	3.1	4	155	-29,828.4	0	0	1,027.6	0	0	0.0	0	0
65 - 70	3.4	4	137	-32,122.8	0	0	1,106.6	0	0	0.0	0	0
70 - 75	3.6	3	101	-34,417.3	0	0	1,185.6	0	0	0.0	0	0
75 - 80	3.9	2	83	-36,711.8	0	0	1,264.7	0	0	0.0	0	0
80 - 85	4.1	1	49	-39,006.3	0	0	1,343.7	0	0	0.0	0	0
85 - 90	4.3	1	26	-41,300.8	0	0	1,422.8	0	0	0.0	0	0
90 - 95	4.6	0	10	-43,595.3	0	0	1,501.8	0	0	0.0	0	0
95 - 100	4.8	0	0	-45,889.8	0	0	1,580.8	81	5,110	0.0	0	0
Hours Off	0.0	0	5,094	0.0	0	7,648	0.0	0	2,490	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 009 2nd North East**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.4	13	467	-3,645.0	44	615	135.2	4	237	0.0	0	0
5 - 10	0.8	11	382	-7,290.0	32	455	270.4	2	135	0.0	0	0
10 - 15	1.2	11	403	-10,934.9	21	295	405.6	3	187	0.0	0	0
15 - 20	1.6	10	343	-14,579.9	2	28	540.8	6	402	0.0	0	0
20 - 25	2.1	10	346	-18,224.9	1	9	676.0	4	235	0.0	0	0
25 - 30	2.5	9	313	-21,869.9	0	2	811.2	0	12	0.0	0	0
30 - 35	2.9	6	208	-25,514.8	0	0	946.5	0	0	0.0	0	0
35 - 40	3.3	4	129	-29,159.8	0	0	1,081.7	0	0	0.0	0	0
40 - 45	3.7	3	111	-32,804.8	0	0	1,216.9	0	0	0.0	0	0
45 - 50	4.1	4	142	-36,449.8	0	0	1,352.1	0	0	0.0	0	0
50 - 55	4.5	4	134	-40,094.7	0	0	1,487.3	0	0	0.0	0	0
55 - 60	4.9	3	117	-43,739.7	0	0	1,622.5	0	0	0.0	0	0
60 - 65	5.3	3	107	-47,384.7	0	0	1,757.7	0	0	0.0	0	0
65 - 70	5.7	3	105	-51,029.6	0	0	1,892.9	0	0	0.0	0	0
70 - 75	6.1	2	67	-54,674.6	0	0	2,028.1	0	0	0.0	0	0
75 - 80	6.6	2	66	-58,319.6	0	0	2,163.3	0	0	0.0	0	0
80 - 85	7.0	2	58	-61,964.6	0	0	2,298.5	0	0	0.0	0	0
85 - 90	7.4	1	22	-65,609.6	0	0	2,433.7	0	0	0.0	0	0
90 - 95	7.8	1	20	-69,254.5	0	0	2,568.9	0	0	0.0	0	0
95 - 100	8.2	0	10	-72,899.5	0	0	2,704.2	81	5,110	0.0	0	0
Hours Off	0.0	0	5,210	0.0	0	7,356	0.0	0	2,442	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

**ASHRAE Baseline 90.1-10 Climate Zone 4C**  
**System - 010 unconditioned**

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
5 - 10	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
10 - 15	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
15 - 20	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
20 - 25	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
25 - 30	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
30 - 35	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
35 - 40	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
40 - 45	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
45 - 50	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
50 - 55	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
55 - 60	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
60 - 65	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
65 - 70	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
70 - 75	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
75 - 80	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
80 - 85	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
85 - 90	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
90 - 95	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
95 - 100	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Hours Off	0.0	0	8,760	0.0	0	8,760	0.0	0	8,760	0.0	0	8,760

# SYSTEM LOAD PROFILES

By MFIA Inc.

## ASHRAE Baseline 90.1-10 Climate Zone 4C System Totals

Percent Design Load	---- Cooling Load ----			---- Heating Load ----			---- Cooling Airflow ----			---- Heating Airflow----		
	Cap. (Tons)	Hours (%)	Hours	Cap. (Btuh)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours	Cap. (Cfm)	Hours (%)	Hours
0 - 5	2.7	28	1,235	-23,120.1	73	2,502	908.1	16	1,245	0.0	0	0
5 - 10	5.3	9	419	-46,240.2	11	366	1,816.1	3	249	0.0	0	0
10 - 15	8.0	9	413	-69,360.3	14	473	2,724.2	3	205	0.0	0	0
15 - 20	10.7	9	398	-92,480.4	2	60	3,632.2	2	181	0.0	0	0
20 - 25	13.4	8	375	-115,600.5	1	19	4,540.3	2	161	0.0	0	0
25 - 30	16.0	7	295	-138,720.6	0	8	5,448.4	3	245	0.0	0	0
30 - 35	18.7	4	183	-161,840.8	0	2	6,356.4	3	194	0.0	0	0
35 - 40	21.4	3	133	-184,960.8	0	0	7,264.5	1	42	0.0	0	0
40 - 45	24.0	2	105	-208,080.9	0	0	8,172.5	0	7	0.0	0	0
45 - 50	26.7	3	121	-231,201.1	0	0	9,080.6	0	0	0.0	0	0
50 - 55	29.4	4	166	-254,321.2	0	0	9,988.7	0	0	0.0	0	0
55 - 60	32.0	3	147	-277,441.3	0	0	10,896.7	0	0	0.0	0	0
60 - 65	34.7	3	147	-300,561.4	0	0	11,804.8	0	0	0.0	0	0
65 - 70	37.4	2	98	-323,681.5	0	0	12,712.8	0	0	0.0	0	0
70 - 75	40.1	2	74	-346,801.6	0	0	13,620.9	0	0	0.0	0	0
75 - 80	42.7	2	67	-369,921.7	0	0	14,528.9	0	0	0.0	0	0
80 - 85	45.4	1	37	-393,041.8	0	0	15,437.0	0	0	0.0	0	0
85 - 90	48.1	0	22	-416,161.9	0	0	16,345.1	0	0	0.0	0	0
90 - 95	50.7	0	15	-439,282.0	0	0	17,253.1	0	0	0.0	0	0
95 - 100	53.4	0	3	-462,402.2	0	0	18,161.2	67	5,110	0.0	0	0
Hours Off	0.0	0	4,307	0.0	0	5,330	0.0	0	1,121	0.0	0	8,760