

Loads Report 3

Core Zone Spaces

Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
<u>1 MAIN ATRIUM 1</u>	2,250	17,997.99	45,113.50	1,434	6,200.50	465	500	2.868
<u>7 NORTHERN ATRIUM</u>	1,069	8,550.42	16,634.20	529	0	221	500	1.058
<u>14 EASTERN ATRIUM 1</u>	1,247	9,979.61	19,414.60	617	0	258	500	1.234
<u>22 MAIN ATRIUM 2</u>	2,402	19,216.94	47,590.20	1,512	6,248.20	497	500	3.024
<u>25 NORTHERN ATRIUM 2</u>	1,464	11,714.36	23,557.90	749	47.7	303	500	1.498
<u>26 BATH 2B</u>	145	1,159.36	1,034.50	33	0	30	50	0.66
<u>27 BATH 2A</u>	146	1,169.78	1,043.80	33	0	30	50	0.66
<u>33 EASTERN ATRIUM 2</u>	1,014	8,112.82	15,782.90	502	0	210	300	1.673333333
<u>46 NORTHERN ATRIUM 3</u>	1,604	12,828.35	26,984.20	858	912.2	332	500	1.716
<u>49 BATH 3A</u>	147	1,176.00	1,049.30	33	0	30	50	0.66
<u>50 BATH 3B</u>	144	1,153.14	1,028.90	33	0	30	50	0.66

East Zone Spaces

Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
<u>17 EASTERN EGRESS 1</u>	551	4,411.67	10,543.30	445	3,201.00	134	500	0.89
<u>38 EASTERN EGRESS 2</u>	364	2,906.03	6,570.10	277	2,033.20	85	300	0.9233333333

North East Zone Spaces

Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
<u>16 CLASSROOM 1A</u>	963	7,701.36	18,595.40	719	830.8	165	400	1.7975
<u>37 STORAGE 2B</u>	66	528.05	381.6	15	156	11	500	0.03
<u>39 OPEN OFFICE</u>	998	7,985.48	10,739.20	415	689.7	171	500	0.83
<u>40 OFFICE 2A</u>	163	1,301.99	2,026.20	78	350	28	80	0.975
<u>41 OFFICE 2B</u>	156	1,248.33	1,704.80	66	160.3	27	80	0.825
<u>42 OFFICE 2C</u>	156	1,248.33	1,704.80	66	160.3	27	80	0.825
<u>43 OFFICE 2D</u>	163	1,301.31	1,771.50	69	162.5	2	80	0.8625

North West Spaces

Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
<u>11 FOOD PREP</u>	410	3,278.00	4,165.40	129	56.3	116	500	0.258

12 CAFE ATRIUM 1	1,323	10,580.89	25,442.50	788	3,502.70	376	500	1.576
13 KIDS ZONE	886	7,084.80	43,075.30	1,335	1,909.30	251	500	2.67
32 LARGE EXHIBIT 2A	1,325	10,600.11	28,246.90	875	1,037.60	376	500	1.75
44 CAFE ATRIUM 2	836	6,684.86	15,262.00	473	1,209.90	237	500	0.946
54 CAFE ATRIUM 3	836	6,677.28	15,253.40	473	1,205.20	237	500	0.946
55 LARGE EXHIBIT 3A	1,323	10,583.78	27,456.40	851	476.7	376	500	1.702
South East Zone Spaces								
Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
2 GIFT SHOP	528	4,226.24	10,555.50	381	1,500.50	132	400	0.9525
18 CLASSROOM 1B	849	6,791.87	17,483.70	631	1,193.40	212	350	1.802857143
19 BATH 1C	145	1,160.81	1,114.80	40	52.00	36	50	0.8
20 MEP 1B	106	851.47	923.20	33	134.30	27	500	0.066
24 CONFERENCE 2B	528	4,226.24	16,985.20	613	1,500.50	132	350	1.751428571
34 BATH 2C	158	1,263.92	1,209.00	44	52.00	39	50	0.88
35 CLASSROOM 2A	968	7,747.03	19,779.10	714	1,252.20	242	400	1.785
South West Zone Spaces								
Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
3 BATH 1B	161	1,291.94	1,134.40	40	0.00	32	50	0.8
4 BATH 1A	160	1,281.35	1,125.10	39	0.00	32	50	0.78
5 WESTERN ATRIUM 1	1,001	8,004.83	20,572.40	717	2,117.70	197	500	1.434
21 CORRIDOR 1	172	1,378.57	4,381.30	153	1,417.10	59	200	0.765
23 CONFERENCE 2A	520	4,158.65	16,712.30	582	1,417.10	102	300	1.94
45 WESTERN ATRIUM 2	660	5,279.17	15,185.20	529	2,117.70	130	300	1.763333333
47 WESTERN ATRIUM 3	659	5,268.06	14,546.50	507	2,385.70	130	300	1.69
West Zone Spaces								
Space Name	Area (SF)	Volume (CF)	Peak Cooling Load (Btu/h)	Cooling Airflow (CFM)	Peak Heating Load (Btu/h)	Heating Airflow (CFM)	CFM per Supply Diffuser	# of Supply Diffusers
6 READING ROOM	989	7,908.49	13,680.50	511	1,058.60	146	500	1.022
8 WESTERN EGRESS 1	495	3,962.10	5,052.80	189	717.50	73	200	0.945
28 SMALL EXHIBIT 2A	846	6,765.97	19,815.20	741	1,073.90	125	400	1.8525
29 WESTERN EGRESS 2	995	7,959.37	9,286.60	347	1,223.90	147	400	0.8675
48 SMALL EXHIBIT 3A	894	7,137.61	19,854.30	742	773.20	132	400	1.855
51 WESTERN EGRESS 3	935	7,468.60	8,932.30	334	1,246.90	139	400	0.835

	56 WESTERN EGRESS SHAFT	146	1,164.69	2,277.70	85	0	22		500	0.17
--	-------------------------	-----	----------	----------	----	---	----	--	-----	------