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## SPACE AIR-EXCHANGE PER HOUR CALCULATOR

MLK, PAUS CAMBRIDGE, MA

9/27/2021

ROOM NAME/#	SERVED BY	CEILING HEIGHT (FT)	FLOOR AREA (FT <sup>2</sup> )	VOLUME (FT <sup>3</sup> )	TOTAL SUPPLY AIR (FT <sup>3</sup> /MIN)	VENTILATION AIRFLOW IN (FT <sup>3</sup> /MIN)	EXHAUST/ RETURN AIRFLOW OUT (FT <sup>3</sup> /MIN)	TOTAL AIR CHANGES PER HOUR (O.A. PLUS RECIRC. AIR)	AIR EXCHANGES PER HOUR (O.A. ONLY)	FILTER MERV RATING
0002 VOC TECH LAB	VAV-1	8.4	1202	10116.8	543	543		3.2	3.2	13
1211 6TH SOC STUDY	VAV-2	8.4	902	7591.8	387	387		3.1	3.1	13
1212 6TH SOCIAL STUDY	VAV-3	8.4	1069	8997.4	392	392		2.6	2.6	13
1210 6TH MATH	VAV-4	8.4	960	8080.0	395	395		2.9	2.9	13
1208A/B RECEPTION	VAV-5	10.0	711	7113.9	360	79		3.0	0.7	13
1208E	VAV-5	10.0	193	1933.5	226	49		7.0	1.5	13
1208G	VAV-5	10.0	119	1192.0	187	41		9.4	2.1	13
1208J	VAV-5	10.0	203	2025.0	360	79		10.7	2.3	13
1209 SELF-CONTAINED CR	VAV-6	10.3	859	8872.3	390	390		2.6	2.6	13
1205 TEACHER WORKROOM	VAV-7	9.0	255	2291.8	234	97		6.1	2.5	13
1206 VPA CONFERENCE	VAV-8	9.0	315	2836.7	366	280		7.7	5.9	13
1031 VPA CR	VAV-8	10.3	875	9044.8	772	590		5.1	3.9	13
1202 SCIENCE	VAV-9	10.3	1438	14858.1	450	450		1.8	1.8	13
1203 SCIENCE PREP	VAV-9	10.3	246	2545.7	120	120		2.8	2.8	13
1030 CR	VAV-10	10.3	1004	10374.7	670	670		3.9	3.9	13
2220 7TH MATH	VAV-11	10.3	905	9351.7	455	455		2.9	2.9	13
2218 7TH LANG	VAV-12	10.3	1067	11021.4	394	394		2.1	2.1	13
2217 7TH ELA	VAV-13	10.3	942	9734.0	385	385		2.4	2.4	13
2216 7TH ELA	VAV-14	10.0	964	9640.2	394	394		2.5	2.5	13
2213 COACHING OFFICE	VAV-15	9.0	220	1980.5	350	81		10.6	2.5	13
2214 COACHING CONFERENCE	VAV-15	9.0	120	1078.3	130	30		7.2	1.7	13
2215 SELF CONTAINED CR	VAV-16	10.3	866	8917.7	380	380		2.6	2.6	13
2202 SCIENCE	VAV-18	10.3	1439	14817.8	445	445		1.8	1.8	13
2203 SCIENCE PREP	VAV-18	10.3	253	2602.4	120	120		2.8	2.8	13
2204 STORAGE	VAV-19	9.0	164	1472.4	329	81		13.4	3.3	13
2204A RECORDS ROOM	VAV-19	9.0	75	675.4	50	12		4.4	1.1	13
2207 ITINERANT STAFF	VAV-19	9.0	149	1345.0	125	31		5.6	1.4	13

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2208 CONFERENCE ROOM	VAV-19	9.0	236	2124.6	300	74		8.5	2.1	13
2209 INTERNS	VAV-19	9.0	175	1575.7	200	49		7.6	1.9	13
2210 COUNSELORS OFFICE	VAV-19	9.0	169	1523.0	275	68		10.8	2.7	13
2029 K-5 ART	VAV-20	10.3	1042	10736.5	445	445		2.5	2.5	13
3212 8TH MATH	VAV-21	10.3	906	9331.8	379	379		2.4	2.4	13
3211 8TH ELA	VAV-22	10.3	943	9712.9	395	395		2.4	2.4	13
3210 8TH ELA	VAV-23	10.3	957	9857.1	386	386		2.3	2.3	13
3207 COUNSELORS OFFICE	VAV-24	9.0	219	1974.7	380	121		11.5	3.7	13
3208 SMALL CONFERENCE RM	VAV-24	9.0	118	1065.4	120	38		6.8	2.2	13
3209 SELF CONT CR	VAV-25A	10.3	874	9002.2	490	490		3.3	3.3	13
3202 SCIENCE	VAV-26	10.3	1439	14821.6	500	500		2.0	2.0	13
3203 SCIENCE PREP	VAV-26	10.3	249	2564.7	120	120		2.8	2.8	13
3204 8TH LANG	VAV-27	10.3	931	9589.3	382	382		2.4	2.4	13
3014 VISUAL ART	VAV-28	10.3	1024	10547.2	457	457		2.6	2.6	13
0038 OFFICE/LUNCHROOM	VAV-28A	9.0	144	1292.2	129	34		6.0	1.6	13
0040	VAV-28B	9.0	886	7971.6	109	20		0.8	0.2	13
0031 OT/PT ROOM	VAV-29	10.0	1333	13331.9	1320	292		5.9	1.3	13
0031C STORAGE	VAV-29	10.0	95	952.6	250	55		15.7	3.5	13
1116 JK/K	VAV-30	10.3	1001	10310.3	385	385		2.2	2.2	13
1114 CR	VAV-31	10.3	983	10124.9	373	373		2.2	2.2	13
1113 TEACHER WORKROOM	VAV-32	9.0	262	2357.5	260	61		6.6	1.6	13
1112 CR	VAV-33	10.3	972	10011.6	380	380		2.3	2.3	13
1111 A/B/D PRINC SUITE	VAV-34	9.0	993	8937.0	300	88		2.0	0.6	13
1111E WORKROOM & COPIER	VAV-34	9.0	83	750.0	100	29		8.0	2.3	13
1111F SCHOOL ADMIN MANAGER	VAV-34	11.0	118	1296.6	100	29		4.6	1.4	13
1111G CHILD WAITING ROOM	VAV-34	11.0	113	1246.7	100	29		4.8	1.4	13
1111J PRINCIPALS OFFICE	VAV-34	11.0	195	2147.6	150	44		4.2	1.2	13
1108 CR	VAV-35	10.3	1027	10580.9	380	380		2.2	2.2	13
1104 IEP/CONFERENCE ROOM	VAV-36	9.0	401	3611.8	460	146		7.6	2.4	13
1106 RECORDS ROOM	VAV-36	9.0	109	981.6	200	64		12.2	3.9	13
1107 PSYCH OFFICE	VAV-36	9.0	129	1162.5	90	29		4.6	1.5	13
1013 STORAGE	VAV-36	8.0	158	1263.5	200	64		9.5	3.0	13
1105 RESOURCE CLASSROOM	VAV-37	8.2	291	2387.0	220	220		5.5	5.5	13
1103 LEARNING CENTER	VAV-38	9.0	219	1968.8	200	106		6.1	3.2	13
1117 LAPTOP CART STORAGE	VAV-38	9.0	58	525.1	50	27		5.7	3.0	13
1102 JK/K	VAV-39	10.3	992	10217.6	365	365		2.1	2.1	13

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1004 FAMILY LIASON.	VAV-40	9.0	117	1057.1	100	10		5.7	0.6	13
1005 LAPTOP CART STORAGE	VAV-40	9.0	58	518.4	60	6		6.9	0.7	13
1040 HUMAN SERVICES CONF ROOM	VAV-40	9.0	182	1642.1	300	30		11.0	1.1	13
2118 GRADE 1	VAV-41	10.3	1006	10363.9	375	375		2.2	2.2	13
2117 GRADE 1	VAV-42	10.3	973	10021.9	377	377		2.3	2.3	13
2116 7TH ELA	VAV-43	10.3	264	2718.3	250	68		5.5	1.5	13
2115 SELF CONT CR	VAV-44	10.3	966	9946.5	394	394		2.4	2.4	13
2114 GRADE 2	VAV-45	10.3	1017	10475.1	387	387		2.2	2.2	13
2111 COACHING OFFICE	VAV-46	9.0	207	1864.6	250	91		8.0	2.9	13
2110 COACHING CONF ROOM	VAV-46	9.0	80	722.7	90	33		7.5	2.7	13
2109 GRADE 2	VAV-47	10.3	1013	10433.9	406	406		2.3	2.3	13
2106 RESOURCE CLASSROOM	VAV-48	10.0	328	3279.1	327	327		6.0	6.0	13
2107 CONFERENCE ROOM	VAV-49	9.0	241	2169.3	270	80		7.5	2.2	13
2104 BOOKROOM	VAV-49	9.0	195	1752.7	120	36		4.1	1.2	13
2105 BOOKROOM	VAV-49	9.0	195	1752.7	50	15		1.7	0.5	13
2103 GRADE 2	VAV-50	10.3	1033	10639.9	384	384		2.2	2.2	13
2002 SPEECH THERAPISTS OFFICE	VAV-51	9.0	113	1020.9	209	31		12.3	1.8	13
3121 GRADE 4	VAV-52	10.3	982	10114.6	377	377		2.2	2.2	13
3119 GRADE 3	VAV-52A	10.3	1007	10372.1	387	387		2.2	2.2	13
3118 TEACHER WORKROOM	VAV-53	9.0	269	2421.7	386	386		9.6	9.6	13
3117 GRADE 4	VAV-54	10.3	961	9898.3	395	395		2.4	2.4	13
3115 GRADE 3	VAV-55	10.3	1013	10433.9	386	386		2.2	2.2	13
3112 INTERNS	VAV-56	9.0	157	1411.8	150	39		6.4	1.7	13
3113 COUNSELING	VAV-56	9.0	126	1137.4	125	32		6.6	1.7	13
3111 GRADE 5	VAV-57	10.3	1013	10433.9	378	378		2.2	2.2	13
3107 CONFERENCE ROOM	VAV-58	9.0	172	1546.1	250	148		9.7	5.7	13
3108 LEARNING CENTER	VAV-58	9.0	223	2008.9	150	89		4.5	2.6	13
3109 RESOURCE CLASSROOM	VAV-59	9.0	322	2900.6	310	310		6.4	6.4	13
3102 GRADE 5	VAV-60	10.3	1025	10557.5	407	407		2.3	2.3	13
3002 ITINERANT STAFF	VAV-61	9.0	114	1023.8	214	214		12.5	12.5	13
3106 CHINESE	VAV-62	11.0	917	10087.0	338	338		2.0	2.0	13
3105 CHINESE	VAV-63	11.0	869	9559.0	339	339		2.1	2.1	13
3006 MUSIC	VAV-64	11.0	960	10560.0	324	324		1.8	1.8	13
3008 CLASSROOM	VAV-65	11.0	1167	12837.0	264	264		1.2	1.2	13
3012 MUSIC	VAV-66	11.0	852	9366.8	316	316		2.0	2.0	13
2007 SMALL GROUP ROOM	VAV-67	9.0	155	1391.3	150	24		6.5	1.0	13

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2019 SMALL GROUP ROOM	VAV-67	9.0	143	1290.9	170	27		7.9	1.2	13
2020 IT WORKROOM/OFFICE	VAV-67	9.0	210	1886.0	100	16		3.2	0.5	13
2023 IT OFFICE	VAV-67	9.0	93	841.1	70	11		5.0	0.8	13
2011 READING	VAV-68	9.0	1632	14690.3	510	510		2.1	2.1	13
2013 SMALL GROUP ROOM	VAV-69	9.0	102	920.8	300	92		19.5	6.0	13
2014 OFFICE	VAV-69	9.0	112	1011.0	270	83		16.0	4.9	13
2015 SOUND RECORDING BOOTH	VAV-69	9.0	127	1143.7	270	83		14.2	4.4	13
2016 MULTIMEDIA STUDIO	VAV-69	9.0	881	7932.5	960	295		7.3	2.2	13
2017 WORKROOM	VAV-69	9.0	264	2372.4	180	55		4.6	1.4	13
2021 READING	VAV-70	25.0	2086	52150.0	822	822		0.9	0.9	13
1014 HEALTH CLASSROOM	VAV-71	10.3	951	9796.4	376	376		2.3	2.3	13
1024A NURSES OFFICE	VAV-72	9.0	114	1028.2	90	14		5.3	0.8	13
1024 RECEPTION/WAITING	VAV-72	9.0	153	1378.9	100	15		4.4	0.7	13
1024D REST AREA	VAV-72	9.0	61	544.7	60	9		6.6	1.0	13
1024E REST AREA	VAV-72	9.0	49	440.6	60	9		8.2	1.2	13
1024F REST AREA	VAV-72	9.0	56	505.9	60	9		7.1	1.1	13
1023 AFTER SCHOOL CLASSROOM	VAV-73	10.3	819	8433.6	365	365		2.6	2.6	13
1016 COMMUNITY SCHOOL	VAV-74	10.3	960	9891.6	362	362		2.2	2.2	13
1021 CLASSROOM	VAV-75	10.3	929	9564.9	383	383		2.4	2.4	13
005 FITNESS	VAV-78	10.0	1257	12574.0	671	671		3.2	3.2	13
0007 LOCKER ROOM	VAV-78	9.0	349	3141.0	200	200		3.8	3.8	13
0008 LOCKER ROOM	VAV-78	9.0	349	3138.6	200	200		3.8	3.8	13
0103 CLASSROOM	VAV-79	10.3	933	9608.0	416	416		2.6	2.6	13
0104 CLASSROOM	VAV-80	10.3	935	9628.1	399	399		2.5	2.5	13
0004 PE OFFICE	VAV-81	8.2	107	879.3	70	17		4.8	1.1	13
0101 OFFICE	VAV-81	8.2	179	1470.4	110	26		4.5	1.1	13
0100 RECEPTION	VAV-81	9.0	437	3935.8	225	53		3.4	0.8	13
0109 GENERAL STORAGE	VAV-81	9.0	184	1651.9	70	17		2.5	0.6	13
0108 KITCHEN	VAV-81	9.0	138	1246.3	400	95		19.3	4.6	13
0005C STORAGE	VAV-81	9.0	70	633.1	60	14		5.7	1.4	13
0025 LOWER GYM VESTIBULE	VAV-82	9.0	120	1084.2	70	12		3.9	0.6	13
0027 PE OFFICE	VAV-82	9.0	101	912.2	90	15		5.9	1.0	13
0028 STORAGE	VAV-82	9.0	280	2522.8	100	16		2.4	0.4	13
0029 AV	VAV-82	9.0	39	352.4	75	12		12.8	2.1	13
0032 OFFICE	VAV-82	9.0	84	755.7	90	15		7.1	1.2	13
0026 SMALL GYM	VAV-83	10.0	4179	41793.6	1317	1317		1.9	1.9	13

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0006 STORAGE	VAV-85	9.0	190	1706.5	268	268		9.4	9.4	13
0021	VAV-86	10.0	3332	33323.8	1091	1091		2.0	2.0	13
0021	VAV-87	10.0	3332	33323.8	1078	1078		1.9	1.9	13

Avg	5.2	2.4
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