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SPACE AIR-EXCHANGE PER HOUR CALCULATOR

**FLETCHER MAYNARD SCHOOL, 225 WINDSOR STREET,
CAMBRIDGE, MA**

9/8/2021

ROOM NAME/#	SERVED BY	CEILING HEIGHT (FT)	FLOOR AREA (FT ²)	VOLUME (FT ³)	TOTAL SUPPLY AIR (FT ³ /MIN)	VENTILATION AIRFLOW IN (FT ³ /MIN)	EXHAUST/ RETURN AIRFLOW OUT (FT ³ /MIN)	TOTAL AIR CHANGES PER HOUR (O.A. PLUS RECIRC. AIR)	AIR EXCHANGES PER HOUR (O.A. ONLY)	FILTER MERV RATING
037 CAFETERIA	HV-1	11.2	2352	26264.0	2754	1793	1380	6.3	3.2	13
015 & 016	HV-1	11.2	209	2338.3	158	103	119	4.1	2.6	13
014 MUSIC	HV-1	11.7	689	8039.5	154	100		1.1	0.7	13
014 TOILET	HV-1	11.7	57	663.5		0	72	0.0	0.0	13
013 ART	HV-1	11.7	694	8092.0	147	96	19	1.1	0.1	13
013 TOILET	HV-1	9.3	34	314.5		0	65	0.0	0.0	13
013a CORRIDOR	HV-1	10.5	1000	10500.0	215	140		1.2	0.8	13
008 CUST TOILET	HV-1	11.2	140	1563.3	53	35		2.0	1.3	13
007 TUTORING	HV-1	8.2	187	1525.5	40	26	58	1.6	1.0	13
TUTOR C (NURSE)	HV-1	7.8	163	1278.4	47	31	55	2.2	1.4	13
TUTOR B (EXAM)	HV-1	8.8	163	1428.0	60	39	55	2.5	1.6	13
TUTOR A (114)	HV-1	8.8	165	1454.0	56	36		2.3	1.5	13
007E TOILET	HV-1	7.6	30	227.5		0	63	0.0	0.0	13
006 ART	HV-1	12.0	623	7480.8	253	165	235	2.0	1.3	13
005 HEADSTART	HV-1	10.6	762	8090.9	97	63		0.7	0.5	13
005a TOILET	HV-1	9.0	28	247.5			87	0.0	21.1	13
004a STORAGE	HV-1	11.7	117	1362.7	238	155		10.5	6.8	13
004 MULTIPURPOSE	HV-1	11.9	1092	13013.0			194	0.0	0.9	13
004 TOILET	HV-1	7.6	58	436.0		0	67	0.0	0.0	13
004a CORRIDOR	HV-1	9.0	2229	20058.3		0	262	0.0	0.0	13

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032 GIRLS ROOM	HV-4	9.0	229	2061.0		0	216	0.0	0.0	13
032a WOMENS ROOM	HV-4	8.0	62	496.0		0	26	0.0	0.0	13
001 BOYS ROOM	HV-4	8.7	194	1684.8		0	141	0.0	0.0	13
001a MENS ROOM	HV-4	8.0	40	322.0		0	44	0.0	0.0	13
JANITOR CLOSET	HV-4	12.0	50	600.0		0	30	0.0	0.0	13
112 STORAGE	HV-2	11.6	542	6280.5	64	81		0.6	0.8	13
111a GYM STORAGE	HV-2	12.0	297	3567.0	95	120		1.6	2.0	13
113 GYM OFFICE	HV-2	12.0	143	1713.6	49	62		1.7	2.2	13
215	HV-2	8.0	256	2044.0	234	296	290	6.9	8.5	13
216	HV-2	8.0	591	4728.0	406	514	171	5.2	2.2	13
217	HV-2	8.4	210	1767.5	36	46	81	1.2	1.5	13
GYM	HV-2	20.0	6216	124310.0	2861	3619	4195	1.4	1.7	13
100 CORRIDOR	HV-3	10.5	2000	21000.0	696	353		2.0	1.0	13
100 BOYS ROOM	HV-3	9.8	171	1667.3	2535	1286	297	91.2	10.7	13
100a PRIVATE TOILET	HV-3	8.0	29	232.0		0	45	0.0	0.0	13
101 CORRIDOR	HV-3	9.0	2907	26160.3	690	350	286	1.6	0.7	13
102 PARENT LIAISON	HV-3	12.0	304	3651.0	256	130	86	4.2	1.4	13
127 GIRLS ROOM	HV-3	9.6	218	2091.1		0	210	0.0	0.0	13
111 CORRIDOR	HV-3	10.6	1000	10583.3	718	364	185	4.1	1.0	13
JANITOR	HV-3	11.5	71	818.8		0	96	0.0	0.0	13
201 CORRIDOR	HV-3	10.5	318	3333.8	650	330		11.7	5.9	13
219 COPY ROOM	HV-3	7.8	286	2215.0		0	47	0.0	0.0	13
219 SPEC ED	HV-3	7.8	231	1801.8	389	197		13.0	6.6	13
202 CORRIDOR	HV-3	10.6	2593	27442.6	334	169	625	0.7	0.4	13
227 GIRLS ROOM	HV-3	9.6	257	2461.0		0	229	0.0	0.0	13
200 BOYS ROOM	HV-3	9.5	206	1959.9		0	357	0.0	0.0	13
300 BOYS ROOM	HV-3	11.4	206	2355.3		0	426	0.0	0.0	13
303 JANITOR CLOSET	HV-3	11.4	94	1073.2		0	12	0.0	0.0	13
301 CORRIDOR	HV-3	10.6	394	4178.5	635	322		9.1	4.6	13

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203 CUSTODIAN	HV-3	11.4	94	1073.2		0	31	0.0	0.0	13
321 GIRLS ROOM	HV-3	11.5	257	2953.2		0	484	0.0	0.0	13
315 CLASSROOM	HV-3	10.8	437	4727.3	213	108		2.7	1.4	13
302 CORRIDOR	HV-3	10.6	2593	27442.6	1121	568	761	2.5	1.2	13
020 PARENT COORD	HV-4	11.2	232	2592.9	31	34		0.7	0.8	13
001b CORRIDOR	HV-4	12.0	376	4509.6	334	361		4.4	4.8	13
019 COMM. SCHOOL	HV-4	11.2	1028	11479.3	718	776	942	3.8	4.1	13
017 COMM. SCHOOL	HV-4	11.2	1340	14967.0	544	588	688	2.2	2.4	13
018 OFFICE	HV-4	7.8	218	1703.8	51	55		1.8	1.9	13
014A CORRIDOR	HV-4	9.0	750	6750.0	253	273		2.2	2.4	13
201 CLASSROOM	UV-1-01	11.0	883	9714.1	544	0	0 FNE	3.4	0.0	5
314 CLASSROOM	UV-1-02	10.8	523	5660.4	754	283	283	8.0	3.0	5
108 CLASSROOM	UV-2-01	11.0	698	7682.4	743	144	144	5.8	1.1	5
109 CLASSROOM	UV-2-02	11.0	703	7736.3	588	0	0 FNE	4.6	0.0	5
110 CLASSROOM	UV-2-03	11.0	703	7736.3	656	0	0 FNE	5.1	0.0	5
210 CLASSROOM	UV-2-04	11.0	710	7813.3	668	160	160	5.1	1.2	5
211 CLASSROOM	UV-2-05	11.0	698	7674.7	708	0	0 FNE	5.5	0.0	5
212 CLASSROOM	UV-2-06	11.0	730	8032.2	681	0	0 FNE	5.1	0.0	5
303 CLASSROOM	UV-2-07	10.8	717	7771.8	784	98	98	6.1	0.8	5
304 CLASSROOM	UV-2-08	10.8	723	7835.8	709	167	167	5.4	1.3	5
305 CLASSROOM	UV-2-09	10.8	719	7791.3	948	284	284	7.3	2.2	5
306 CLASSROOM	UV-2-10	10.8	719	7791.3	829	273	273	6.4	2.1	5
310 CLASSROOM	UV-2-11	10.8	710	7693.8	607	191	191	4.7	1.5	5
311 CLASSROOM	UV-2-12	10.8	698	7558.4	542	0	0 FNE	4.3	0.0	5
312 CLASSROOM	UV-2-13	10.8	730	7910.5	685	0	0 FNE	5.2	0.0	5
204 CLASSROOM	UV-3-01	11.0	935	10279.5	869	136	136	5.1	0.8	5
205 CLASSROOM	UV-3-02	11.0	913	10045.2	1031	270	173	6.2	1.0	5
206 TECH ROOM (1/2)	UV-3-02	11.0	160	1761.1			97	0.0	3.3	5
206 TECH ROOM (2/2)	UV-5-01	11.0	160	1761.1			97	0.0	3.3	5

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202 GET WELL ROOM	UV-4-01	11.0	373	4097.5	0 FNE			0.0	0.0	5
203	UV-4-01	11.0	215	2365.0	0 FNE			0.0	0.0	5
203 TOILET	UV-4-01	11.0	30	330.0			165	0.0	30.0	5
207 LIBRARY	UV-5-01	11.0	1457	16027.0	0 FNE		252	0.0	0.9	5
208 OFFICE	UV-5-01	11.0	153	1677.5	0 FNE			0.0	0.0	5
209 TEACHERS RM	UV-5-01	11.0	258	2841.3	0 FNE			0.0	0.0	5
207 TOILET	UV-5-01	8.0	30	240.0			43	0.0	10.8	5
307 CLASSROOM	UV-5-02	10.8	723	7835.8	0 FNE		169	0.0	1.3	5
308 OFFICE	UV-5-02	9.0	153	1379.7	0 FNE			0.0	0.0	5
309 OFFICE	UV-5-02	9.0	258	2324.7	0 FNE			0.0	0.0	5
STAFF TOILET	UV-5-02	9.0	30	270.0			48	0.0	10.7	5
101A/B CLASSROOM	UV-7-01	10.6	1428	15113.0	1094	120	0 FNE	4.3	0.5	5
101A TOILET	UV-7-01	8.0	20	160.0			24	0.0	9.0	5
101B TOILET	UV-7-01	8.0	20	160.0			96	0.0	36.0	5
103 KINDERGARTEN	UV-7-02	11.0	936	10298.2	851	287		5.0	1.7	5
103 TOILET	UV-7-02	8.0	12	96.0		0	119	0.0	0.0	5
104 TOILET	UV-7-02	8.0	10	80.0		0	168	0.0	0.0	5
104 KINDERGARTEN	UV-7-03	12.0	1053	12636.0	997	467	467	4.7	2.2	5
KITCHEN	UV-8-01	11.8	651	7707.1	0 FNE			0.0	0.0	5
105 TEACHERS ROOM	UV-8-02	10.0	309	3085.0	0 FNE	0 FNE	254	0.0	4.9	5
106 CONFERENCE ROOM	UV-8-02	10.0	331	3311.0	0 FNE	0 FNE	210	0.0	3.8	5
107 MAIN OFFICE	UV-8-02	9.4	433	4074.6	0 FNE	0 FNE		0.0	0.0	5
PRINCIPAL'S OFFICE	UV-8-02	10.0	258	2583.0	0 FNE	0 FNE		0.0	0.0	5
MENS ROOM	UV-8-02	8.0	32	258.4			82	0.0	19.0	5
WOMENS ROOM	UV-8-02	8.0	107	852.0			161	0.0	11.3	5
301A CLASSROOM	UV-8-03	11.0	529	5816.1	0 FNE			0.0	0.0	5
301 CLASSROOM	UV-8-03	11.0	755	8307.9	0 FNE		0 FNE	0.0	0.0	5
302 ROOM	UV-8-03	11.0	215	2365.0	0 FNE			0.0	0.0	5
302 TOILET	UV-8-03	11.5	30	345.0			10	0.0	1.7	5

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							Avg	3.0	2.6	

FNE = "Fan not energized" per Final TAB Report