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SPACE AIR-EXCHANGE PER HOUR CALCULATOR

CAMBRIDGEPORT SCHOOL, 89 ELM STREET, CAMBRIDGE, MA

7/2/2021

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
Rm 3	HV-1	12.0	1102	13224.0	320	NOTE#1	559	4.0	2.5	13
Boiler rm	HV-1	12.0	1120	13440.0	0	NO TAB DATA		0.0	0.0	13
After school/Music	HV-1	9.4	843	7938.3	NOTE#1	NOTE#1	447	3.4	3.4	13
Storage in after school rm	HV-1	12.0	252	3024.0	90	90		1.8	1.8	13
Stairwell bottom floor	HV-1	12.0	256	3072.0	0	NO TAB DATA		0.0	0.0	13
015 OT/PT	HV-1	12.0	647	7764.0	1266	1266	73	9.8	0.6	13
011 OT/PT Storage	HV-1	12.0	58	696.0	0		NOTE#1	0.0	0.0	13
012 OT/PT Office	HV-1	12.0	99	1188.0	275	275		13.9	13.9	13
008 Custodian Office	HV-1	12.0	371	4452.0	285	285		3.8	3.8	13
Air handlers	HV-1	12.0	496	5952.0	0	NO TAB DATA		0.0	0.0	13
Electric Room	HV-1	12.0	165	1980.0	0	NO TAB DATA		0.0	0.0	13
005 Staff Toilet	HV-1	12.0	47.25	567.0	270		0 FNE	28.6	0.0	13
004 Boys Bathroom	HV-1	12.0	368	4416.0	1350		0 FNE	18.3	0.0	13
003 Girls Bathroom	HV-1	12.0	235	2820.0	750		0 FNE	16.0	0.0	13
CORRIDOR	HV-1	12.0	922	11064.0	350	0 FNE	0 FNE	1.9	0.0	13
1F ENTRANCE	HV-1	12.0	110	1320.0	350	NO TAB DATA		15.9	0.0	13
MAIN OFFICE	HV-1	12.0	207	2484.0	500	NO TAB DATA		12.1	0.0	13
SECRETARY	HV-1	12.0	350	4200.0	500	NO TAB DATA		7.1	0.0	13
PRINCIPAL	HV-1	12.0	92	1104.0	256	NO TAB DATA		13.9	0.0	13
100	HV-1	12.0	973	11676.0	300	75	0 FNE	1.5	0.0	13

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100A	HV-1	12.0	166	1992.0	320	NO TAB DATA		9.6	0.0	13
101	HV-1	12.0	973	11676.0	1162	1162	0 FNE	6.0	0.1	13
101A	HV-1	12.0	166	1992.0	396	NO TAB DATA		11.9	0.0	13
102	HV-1	12.0	1076.25	12915.0	113	113	0 FNE	0.5	0.0	13
Book rm	HV-1	12.0	127.75	1533.0	0	NO TAB DATA		0.0	0.0	13
Book rm st	HV-1	12.0	54	648.0	0	NO TAB DATA		0.0	0.0	13
103	HV-1	12.0	845.33	10144.0	1467	1467	0 FNE	8.7	0.1	13
103A	HV-1	12.0	303	3636.0	250	NO TAB DATA		4.1	0.0	13
104	HV-1	12.0	960	11520.0	430	143	0 FNE	2.2	0.0	13
104A	HV-1	12.0	180	2160.0	360	NO TAB DATA		10.0	0.0	13
105	HV-1	12.0	850	10200.0	421	421	0 FNE	2.5	0.0	13
105A	HV-1	12.0	154	1848.0	220	NO TAB DATA		7.1	0.0	13
105 ELECTRIC	HV-1	12.0	44	528.0	0	NO TAB DATA		0.0	0.0	13
Hallway 3rd floor	HV-1	12.0	796	9552.0	0	NO TAB DATA		0.0	0.0	13
Small exit rm next to stairwell	HV-1	12.0	60	720.0	0	NO TAB DATA		0.0	0.0	13
A108C Conference Room	HV-1	12.0	221	2652.0	NOTE#2	NOTE#2	0 FNE	0.0	0.0	13
A108B Family Liaison	HV-1	12.0	80	960.0	NOTE#2	NOTE#2		0.0	0.0	13
Small rm outside conf rm	HV-1	12.0	40	480.0	0	NO TAB DATA		0.0	0.0	13
Hallway 2nd floor	HV-1	12.0	870	10440.0	260	NO TAB DATA		1.5	0.0	13
Rm 1 spec start	HV-1	12.0	1160	13920.0	905	NO TAB DATA		3.9	0.0	13
Rm 1 Toilets	HV-1	12.0	50	600.0	470	NO TAB DATA		47.0	0.0	13
Rm 2 spec start	HV-1	12.0	1088	13056.0	225	NO TAB DATA		1.0	0.0	13
Rm 2 storage	HV-1	12.0	135	1620.0		NO TAB DATA		0.0	0.0	13
A125 Cafeteria	HV-1	12.0	1550	18600.0	2000	0 FNE	0 FNE	6.5	0.0	13
Rm 3	HV-1	12.0	152	1824.0		NO TAB DATA		0.0	0.0	13
Rm 3 st	HV-1	12.0	50	600.0		NO TAB DATA		0.0	0.0	13
Cafe st	HV-1	12.0	387	4644.0		NO TAB DATA		0.0	0.0	13

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Kitchen	HV-1	12.0	585	7020.0		NO TAB DATA		0.0	0.0	13
201	HV-1	12.0	983	11796.0	137	137	0 FNE	0.7	0.0	13
201A	HV-1	12.0	170	2040.0	310	NO TAB DATA		9.1	0.0	13
200	HV-1	12.0	983	11796.0	1769	1769	0 FNE	9.0	0.1	13
200A	HV-1	12.0	170	2040.0	250	NO TAB DATA		7.4	0.0	13
202	HV-1	12.0	1027.5	12330.0	281	281	0 FNE	1.4	0.0	13
Conf rm	HV-1	12.0	171	2052.0	350	NO TAB DATA		10.2	0.0	13
202S Storage	HV-1	12.0	69	828.0	0	NO TAB DATA		0.0	0.0	13
205	HV-1	12.0	662	7944.0	445	0 FNE	0 FNE	3.4	0.0	13
203	HV-1	12.0	235	2820.0		NO TAB DATA		0.0	0.0	13
Nurse	HV-1	12.0	197	2364.0	445	NO TAB DATA		11.3	0.0	13
204	HV-1	12.0	985	11820.0	1135	1135	0 FNE	5.8	0.1	13
204A	HV-1	12.0	175	2100.0	350	NO TAB DATA		10.0	0.0	13
207	HV-1	12.0	985	11820.0	1222	1222	0 FNE	6.2		13
Time out rm	HV-1	12.0	114	1368.0	225	NO TAB DATA		9.9	0.0	13
211 Office	HV-1	12.0	111	1332.0	200	NO TAB DATA		9.0	0.0	13
Gym	HV-2	28.0	4955	138740.0	5222	5222	0 FNE	2.3	0.0	13
Math office	HV-1	12.0	99	1188.0	0	NO TAB DATA		0.0	0.0	13
Gym office	HV-1	12.0	99	1188.0	0	NO TAB DATA		0.0	0.0	13
Gym storage	HV-1	12.0	420	5040.0	0	NO TAB DATA		0.0	0.0	13
Girls locker room	HV-1	12.0	545	6540.0	0	NO TAB DATA		0.0	0.0	13
Boys locker room	HV-1	12.0	554	6648.0	0	NO TAB DATA		0.0	0.0	13
Staircase/hallway	HV-1	12.0	541	6492.0	0	NO TAB DATA		0.0	0.0	13
Rm 300	HV-1	12.0	1009	12108.0	870	NO TAB DATA		4.3	0.0	13
Rm 300 A	HV-1	12.0	209	2508.0	290	NO TAB DATA		6.9	0.0	13
Rm 301	HV-1	12.0	1012	12144.0	1000	NO TAB DATA		4.9	0.0	13
Rm 301 A	HV-1	12.0	205	2460.0	360	NO TAB DATA		8.8	0.0	13
Rm 302 Library	HV-1	12.0	1800	21600.0	630	NO TAB DATA		1.8	0.0	13
Rm 302 office	HV-1	12.0	112.5	1350.0	NO VENT	NO TAB DATA		0.0	0.0	13

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Rm 303	HV-1	12.0	930	11160.0	750	NO TAB DATA		4.0	0.0	13
Rm 304	HV-1	12.0	910	10920.0	1000	NO TAB DATA		5.5	0.0	13
Rm 304 st	HV-1	12.0	102	1224.0	0	NO TAB DATA		0.0	0.0	13
Boys bathroom top floor	HV-1	12.0	91	1092.0	245	NO TAB DATA		13.5	0.0	13
Girls bathroom top floor	HV-1	12.0	91	1092.0	225	NO TAB DATA		12.4	0.0	13
Rm 305	HV-1	12.0	1010	12120.0	630	NO TAB DATA		3.1	0.0	13
Rm 305 st	HV-1	12.0	122.5	1470.0	0	NO TAB DATA		0.0	0.0	13
Electric rm 305	HV-1	12.0	42	504.0	0	NO TAB DATA		0.0	0.0	13
Janitor top floor	HV-1	12.0	48	576.0	0	NO TAB DATA		0.0	0.0	13
Rm 306	HV-1	12.0	363	4356.0	610	NO TAB DATA		8.4	0.0	13
Rm 307	HV-1	12.0	370	4440.0	625	NO TAB DATA		8.4	0.0	13
Rm 308	HV-1	12.0	148	1776.0	320	NO TAB DATA		10.8	0.0	13
Hallway top floor	HV-1	12.0	565.5	6786.0		NO TAB DATA		0.0	0.0	13
Stairs/Hallway outside 307	HV-1	12.0	360	4320.0		NO TAB DATA		0.0	0.0	13
elevator	HV-1	12.0	49	588.0		NO TAB DATA		0.0	0.0	13

FNE = "Fan not energized" per Final TAB Report

NOTE#1: TAB Report indicates torn flex duct at VAV box

Avg	0.8	0.3
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