










PURIFIER		EFFECTIVENESS			ACOUSTICS			SAFETY	TYPE	
Model	Speed	ASHRAE 241	ANSI/AHAM AC-1 (Lab)	ANSI/AHAM AC-2 (Lab)	ASHRAE 241	ASHRAE 241	ASHRAE 241	ASHRAE 241	ASHRAE 241	
Purifier Model and Version	Purifier Setting	V_{ACS} Equivalent Clean Airflow cfm (L/s)	$\left(\begin{matrix} \text{Smoke} \\ \text{CADR} \\ \times .3 \end{matrix} \right) + \left(\begin{matrix} \text{Dust} \\ \text{CADR} \\ \times .3 \end{matrix} \right) + \left(\begin{matrix} \text{Pollen} \\ \text{CADR} \\ \times .4 \end{matrix} \right)$	Sound Pressure dBA (Lp)	Sound Power dBA (Lw)	NC	Safety of HEPA Filter Air Cleaning	Table 6-2 Type	Zone Air Distribution Type	
	High	763 (360)	$= (793 \times .3) + (723 \times .3) + (771 \times .4)$	58	69	53	✓	Floor, Horiz. Flow	Well Mixed, Cross Flow	
	3	539 (254)*		52	63	48				
	2	387 (183)*		42	53	37				
	1	171 (81)*		25	36	17				
	High	524 (247)**	$= (561 \times .3) + (587 \times .3) + (450 \times .4)$	57	68	52	✓	Floor, Upward Flow	Well Mixed, Natural, Upflow	
	3	376 (177)*		50	61	45				
	2	289 (136)*		41	52	36				
	1	212 (100)*		36	47	30				
	High	378 (178)	$= (352 \times .3) + (379 \times .3) + (397 \times .4)$	61	72	56	✓	Floor, Upward Flow	Well Mixed, Natural, Upflow	
	3	160 (76)*		43	54	40				
	2	91 (43)*		32	43	28				
	1	20 (9)*		21	32	17				
	High	291 (137)	$= (241 \times .3) + (287 \times .3) + (332 \times .4)$	53	64	50	✓	Floor, Horiz. Flow	Well Mixed, Cross Flow	
	2	181 (85)*		50	61	47				
	1	144 (68)*		41	52	37				
	High	192 (91)	$= (179 \times .3) + (181 \times .3) + (211 \times .4)$	54	65	52	✓	Wall, Upward Flow	Any Except Downflow	
	2	107 (50)*		46	57	44				
	1	51 (24)*		29	40	25				
	High	119 (56)	$= (110 \times .3) + (123 \times .3) + (123 \times .4)$	49	60	45	✓	Floor, Horiz. Flow	Well Mixed, Cross Flow	
	2	57 (27)*		37	48	33				
	1	16 (8)*		20	31	16				
	High	87 (41)	$= (78 \times .3) + (87 \times .3) + (93 \times .4)$	45	56	40	✓	Floor, Upward Flow	Well Mixed, Natural, Upflow	
	2	38 (18)*		33	44	28				
	1	15 (7)*		26	37	21				
	High	77 (36)	$= (74 \times .3) + (82 \times .3) + (75 \times .4)$	52	63	48	✓	Floor, Upward Flow	Well Mixed, Natural, Upflow	
	2	54 (25)*		45	56	40				
	1	31 (15)*		33	44	29				
	High	66 (31)	$= (57 \times .3) + (60 \times .3) + (77 \times .4)$	48	59	45	✓	Floor, Upward Flow	Well Mixed, Natural, Upflow	
	2	42 (20)*		37	48	32				
	1	24 (11)*		30	41	24				

* V_{ACS} lab tested on high speeds and calculated on slower speeds

** Minimum V_{ACS} as pollen CADR is higher than 450 lab maximum