



## How Much Filtration Do You Need?

While there are no set rules, the CDC, ASHRAE, and the Harvard School For Public Health all recommend 6 air changes per hour (ACH) frequently for occupied rooms and classrooms.

Further, ASHRAE has shown a dramatic decrease in the chances of COVID being passed to others as air changes increase to 6, even with an infected individual in the room for an entire 5 hour day. Air changes created by either fresh air, or HEPA filtered air through medical grade air filtration, can drastically reduced the chance of infection spreading.

### Air Changes Per Hour by Room Dimensions

Airflow of: **1300 CFM** With Room Height: **8 Feet**

	15	18	21	24	27	30	33	36	39	42	45	48	51	54
15	43.3	36.1	31.0	27.1	24.1	21.7	19.7	18.1	16.7	15.5	14.4	13.5	12.7	12.0
18	36.1	30.1	25.8	22.6	20.1	18.1	16.4	15.0	13.9	12.9	12.0	11.3	10.6	10.0
21	31.0	25.8	22.1	19.3	17.2	15.5	14.1	12.9	11.9	11.1	10.3	9.7	9.1	8.6
24	27.1	22.6	19.3	16.9	15.0	13.5	12.3	11.3	10.4	9.7	9.0	8.5	8.0	7.5
27	24.1	20.1	17.2	15.0	13.4	12.0	10.9	10.0	9.3	8.6	8.0	7.5	7.1	6.7
30	21.7	18.1	15.5	13.5	12.0	10.8	9.8	9.0	8.3	7.7	7.2	6.8	6.4	6.0
33	19.7	16.4	14.1	12.3	10.9	9.8	9.0	8.2	7.6	7.0	6.6	6.2	5.8	5.5
36	18.1	15.0	12.9	11.3	10.0	9.0	8.2	7.5	6.9	6.4	6.0	5.6	5.3	5.0
39	16.7	13.9	11.9	10.4	9.3	8.3	7.6	6.9	6.4	6.0	5.6	5.2	4.9	4.6
42	15.5	12.9	11.1	9.7	8.6	7.7	7.0	6.4	6.0	5.5	5.2	4.8	4.6	4.3
45	14.4	12.0	10.3	9.0	8.0	7.2	6.6	6.0	5.6	5.2	4.8	4.5	4.2	4.0
48	13.5	11.3	9.7	8.5	7.5	6.8	6.2	5.6	5.2	4.8	4.5	4.2	4.0	3.8
51	12.7	10.6	9.1	8.0	7.1	6.4	5.8	5.3	4.9	4.6	4.2	4.0	3.7	3.5
54	12.0	10.0	8.6	7.5	6.7	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3

- Dark Green: Excellent (9+ACH)
- Medium Green: Very Good (6-9 ACH)
- Light Green: Better Ventilation (4-6 ACH)