

Corporate Office Room

UV-KLEEN™ model **UVK-PRK-300W-O** is installed at a corporate office for disinfectant purposes. The following results show the time taken by UV-KLEEN™ in killing the virus and bacteria by 99.99%.

50mJ/cm² is the required UV-C to disinfect a room up to 99.99% from viruses and bacteria. The UV-KLEEN™ could achieve 50mJ/cm² in 4 min when the dosimeter is placed at 7ft away from the lamp source. The Ozone levels are measured to be 1ppm in 4 min when measured at 5 ft, and 1ppm in 5 min at 7 ft from the UV-KLEEN™ system.

Parameters	Values
Dimensions of the room	17x11x10 ft
UV-KLEEN location	Center of the room
Temp and Humidity	72F 30%
Time for 50mJ/cm ²	4 min at 7ft
Ozone Levels	1 ppm in 4 min @ 5ft 1 ppm in 5 min @ 7ft
<u>Time to kill Covid19</u>	<u>4 min @ 7ft Surface</u> <u>5 min @ 7ft Air</u>



The statistical published results state that Sars-CoV-2 (Covid19) requires 2.7mJ/cm² for a 90% kill rate, and approximately 10-20mJ/cm² for a 99% kill rate. UV-KLEEN™ achieved 50mJ/cm², a much higher UV irradiation to kill Covid19 under 4 mins at 7 ft from the lamp source.

While the UV can disinfect surfaces and the air that is passed through the lamp, Ozone is more beneficial to use when certain hidden spots needed sterilization. Ozone can reach every nook and corner of the room, oxidizing (killing) the pathogens. The Ozone is measured at 7ft at a hidden spot (behind the office desk where the UV light cannot reach), and it is found to be 1ppm at 5

min. In other words, it took 5 mins to reach 1ppm at a distance of 7ft from the source. 1ppm is lethal for many viruses including Covid19 and other bacteria in the air.

With the above results, we can confidently say that UV-KLEEN took about 4 min to disinfect the surface and 5 min to disinfect the air in a corporate office room. The Ozone took 12 mins to dissipate under 0.1ppm, a safety level to occupy the room.

