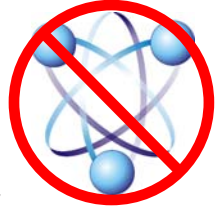


Many UV light manufacturers (stick lights) are claiming “no ozone” in their literature, which is technically not true. All UV lights, including our UV line, give off some ozone; usually in the .003 - .08 ppm range (this can vary due to test point and methods). This is not a problem as many electrical products give off ozone! The California “no ozone” initiative is ill founded. We agree with the California position on ozone air purifiers as high levels of ozone are harmful, but to say products must be “ozone-free” is over the top. Products that emit some ozone include electric motors, refrigerators, televisions, copy machines, UV lights, dishwashers, projectors, hair dryers, industrial and commercial lighting and transformers, to name a few, and Mother Nature makes ozone with lightning and sunlight. Most scientists believe ozone is nature’s way of cleaning the air. This is why the outdoor air after a thunderstorm smells so clean.

Just what is ozone? Ozone is a pale blue gas that is actually an oxygen molecule with a third atom. Oxygen is O<sub>2</sub> and ozone is O<sub>3</sub>. Ozone is a strong oxidizer that is widely used in water and food purification and commercial and industrial air purification. First, we need to understand that ozone is all around us in nature. Listed are some typical ozone levels.

Typical Ozone Levels in PPM

- .003 - .015 Ozone Odor Detecting Range
- .005 - .01 Heavy Forest Country Air
- .02 - .05 Outdoor Air after Lightning
- .003 - .08 UV Light bulb (stick lights)
- <.04 OSHA Safety Limit for Indoor Air
- <.05 FDA Safety Limit for Medical Devices (Indoor)
- <.05 California EPA for Air Cleaning Devices (Indoor)
- <.12 EPA Limit for City Air
- 1.0 Human Tolerance Level



RGF’s Guardian Air line (both PHI and REME) have been vigorously tested by in-house RGF R&D Engineers and outside by third party labs, government agencies, universities and major Fortune 500 clients including: FDA, Federal Food Safety Service, ETL, TUV, UL and Kansas State University, to name a few. Results are always in the .01 ppm range or well below, about one-fifth the FDA and California safety limits. In a one-year study by Disney Hotels, ambient room ozone levels were actually lower in rooms with PHI than in rooms without. Accordingly, RGF’s Guardian Air line is as non ozone as you can get.

## RGF’s R&D Testing of New PHI & REME Cell



.02 ppm at 3' from PHI / REME Unit

.01 ppm at 6' from PHI / REME Unit

