

## PHI Technology vs. UV alone

The combination of UV light enhanced by a hydrated quad-metallic compound target develops an advanced oxidation reaction. This process produces hydro-peroxides, super oxide ions, ozonide ions and hydroxides. By engineering the proper UV light wavelength, in combination with a triple function, no maintenance unit, The PHI Cell provides safe hydro-peroxides, super oxide ions, ozonide ions and hydroxides to purify the air. With the RGF HVAC-PHI Cell Advanced Oxidation System, micro-organisms can be reduced by over 97%. Gases, VOCs and odors can also be reduced significantly. Advanced oxidizers will be carried throughout the ducts and rooms for a continuous purification process and a quick kill of newly introduced odors or microbes. This is far superior to UV alone. In addition the PHI Cell has a protective poly coating to prevent mercury contamination in case of lamp breakage. UV-C - Germicidal Lamps These are rapidly becoming very popular as an easy fix for the air conditioner coil mold problem. This is one of the most prevalent cause of the mildew smell you get when you enter an air-conditioned sick building. UV-C (254nm) lamps are basically similar to sun lamps and are typically only effective on microbes that pass by within a few inches of the lamp or areas where the light is shining directly on for extended periods of time.