



JACOB MERMIN INSPECTIONS

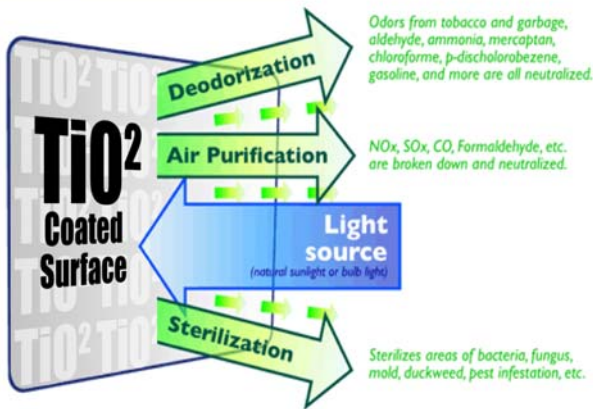
www.mermininspections.com

(239)243-7322

Natural Air Purification Using NASA Designed Space Station Technology

- Simple Installation
- Automatic operation
- Very Low Maintenance
- Titanium Dioxide Sleeve
- 10,000 Hour Average probe Life
- Advanced Electronics
- Optimal 265 Nanometer Wavelength Output
- 2 Year Warranty
- Reduce or Eliminate Airborne Molds, Germs, Bacteria & Viruses
- Helps Reduce Sickness & allergies
- 110 Volt Input / 18 Watt Output

Strong Oxidation Power



TiO² Impregnated Fiberglass Sleeve
For Hydroxyl Radical Production
For Enhanced Germ Killing & Odor Removal

Titanium Dioxide has a high refraction ratio, and when exposed to ultraviolet light of less than 385 nanometers, the band gap energy, or the level of energy photons need to free electrons from their atomic bonds, is exceeded. What is then created are electron hole pairs; Hydroxyl radicals of hydrogen and oxygen which attract other molecules to the titanium catalyst like a magnet.

Hydroxyl Radicals are among the most powerful oxidizing radicals, even stronger than chlorine, ozone and peroxide. They act as very powerful disinfecting agents by oxidizing the cells of microorganisms, causing rupture of the cell and leakage of vital composition

Once the pollutant is exposed to the combination of ultraviolet light and hydroxyl radicals, a photochemical reaction, referred to as photo-catalytic oxidation, takes place. This oxidation process, combined with the sterilization properties of ultraviolet light, provides a very powerful tool in reducing volatile organic compounds (VOC's) and bio-aerosols.

Specifications

Model#	JMIUV-1
Process:	Germicidal Ultra-Violet Sterilization
Output:	265 Nanometers / 18 Watts
Intensity:	40,000 Microwatts/ Second Per CM ²
Electrical:	110 Volt / .5 Amps
Dimensions:	2"L x 4"W x 4"H
Probe Length:	11"
Probe Life:	10,000 Hours
Weight:	2.25 lbs

