



PLASMA AIR

controls mold, reduces smoke, dust and pollen, neutralizes odors, eliminates VOCs, reduces bacteria, balances static electricity



Plasma Air: The Ionization Solution for Cleaning Air



Different Environments, Same Result: Clean Air

Residential – an approach to control mold growth and the reduction of airborne dust, pollen, and pet dander which cause sinus problems, asthma and allergies.



Schools – an approach to reduce bacteria, airborne particles, odors and mold which all contribute to the IAQ problems that a typical school experiences.

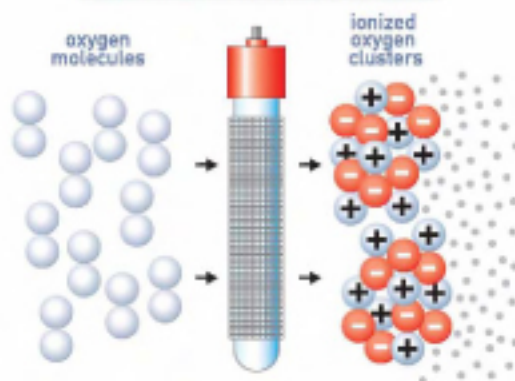


Commercial – an approach to alleviate the symptoms of Sick Building Syndrome, bacteria in restaurants, odors in nursing homes and casinos and Volatile Organic Compounds (VOCs) from furniture, carpets, paint and cleaning agents.



Industrial – an approach to neutralize VOCs and chemicals used in manufacturing processes and control odors, bacteria and emissions from sewage and wastewater treatment facilities.

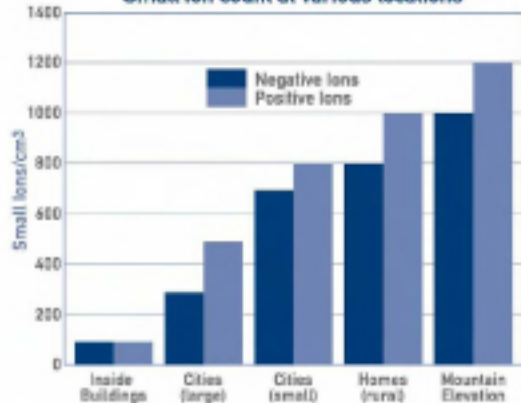
Formation of Ionized Oxygen Clusters



Plasma Air Ionization Accentuates the Positive

- By introducing electricity at a specified voltage, the Plasma Air system creates a measurable and controllable quantity of **positive and negative oxygen ions** similar to what occurs naturally at mountain elevations.
- The activated oxygen ions cluster together to **neutralize pollutants** and reduce them to less harmful substances.
- All this is done without resorting to the potentially harmful use of ultraviolet light or chemical additives.

Small ion count at various locations



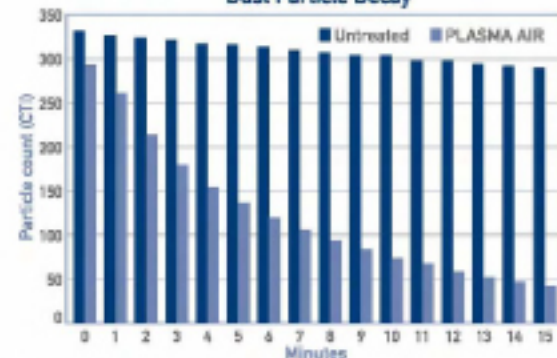
Using Einstein's Approach to Cleaner Air

- Einstein's Theory of Light Absorption proved the presence of a natural conductivity (ionization) in air. He surmised that a higher degree of conductivity was related somehow to a healthier climate.
- This was later proved to be true through the measurement of ion concentrations at varying altitudes (see chart at left).
- Einstein and Conrad Habicht recreated this conductivity with a device called an **electrostatic potential multiplier**. The Plasma Air technology used today is derived from this original oxygen ionizer.

Breathe the Benefits of Plasma Air

- **Particle Reduction: Laboratory Results Speak for Themselves**
 - **86% of dust particles were removed** from the air in a 15 minute test period (see chart below).
 - **91% of mold spores were removed** from the air to an undetectable level in 9 minutes.
 - Particles, such as dust, mold spores, smoke and pollen, are charged by the oxygen ions causing them to stick together. These larger, heavier particles then fall to the floor where they are rendered harmless.

Dust Particle Decay



- **Sterilization of Mold and Bacteria**
Oxygen ions inhibit the growth of mold and cause the reduction of bacteria by penetrating the cell's split zone preventing cell division.
- **Odor Neutralization**
Odorous gases oxidize on contact with active oxygen ions. Odors, especially of an organic origin, are quickly eliminated.
- **Chemical and VOC Control**
Many chemical compounds and VOCs, such as those present in building materials, furniture, office equipment, cleaning agents and paint are neutralized by breaking down their molecular structures into carbon dioxide (CO₂) and water (H₂O).
- **Cleaning Air While Conserving Energy**
Airborne pollutants and odors are eliminated without requiring dilution through outside air intake. In fact, ASHRAE ventilation codes allow for the reduction of outside air by using an "air cleaning device". **This saves equipment costs and ongoing energy costs.**



PLASMA AIR

An Extensive Line of Products for Your Specific Environment

Our products are available in both self-contained stand alone units and in duct models that are installed directly into your central HVAC system. Whether a bedroom or a large sewage treatment plant, our products serve applications from 100 square feet to several hundred thousand square feet and everything in between.

<p>T400</p>  <p>● ● ●</p>	<p>Voltage: 120V / 220V Energy Use: 15 watts No. of Tubes: 1 Tube Size: A Capacity: 400 sq. ft.</p>	<p>Application: Portable Tower with fan  Tower is 16" tall and ideal for small scale applications where a central HVAC system is unavailable such as homes, conference rooms, offices, hospital rooms, nursing homes, and assisted living rooms.</p>
<p>WCM102 (C,D,E) Wall Mount Ceiling Mount Flor Stand</p>  <p>○ ● ● ●</p>	<p>Voltage: 220V Energy Use: 20/30 watts No. of Tubes: 1/2 Tube Size:  C/D/E Capacity: Up to 1,500 sq. ft.</p>	<p>Application: Portable unit with fan  that can be placed on a flat surface or wall mounted. Ideal for applications where a central HVAC system is unavailable such as garbage rooms, conference rooms, offices, classrooms, restaurants, nursing homes, childcare facilities, and salons.</p>
<p>100</p>  <p>○ ● ● ●</p>	<p>Voltage: 120V/230V Energy Use: 4/5/6 watts No. of Tubes: 1 Tube Size: C/D/E Capacity: up to 3,000 cfm</p>	<p>Application: In duct unit for smaller central HVAC systems. Ideal for homes, office buildings, hospitals, classrooms, conference rooms, restaurants, nursing homes, childcare facilities, and casinos.</p>
<p>200</p>  <p>○ ● ● ●</p>	<p>Voltage: 120V/230V Energy Use: 10/12 watts No. of Tubes: 2 Tube Size: D/E Capacity: 4,000/5,000 cfm</p>	<p>Application: In duct unit for medium central HVAC systems. Ideal for office buildings, schools, hospitals, restaurants, nursing homes, childcare facilities, and casinos.</p>
<p>50E</p>  <p>○ ● ● ●</p>	<p>Voltage: 120V/230V Energy Use: 30 watts No. of Tubes: 5 Tube Size: E Capacity: 8,000 cfm</p>	<p>Application: In duct unit for larger central HVAC systems. Ideal for office buildings, hospitals, schools, nursing homes, childcare facilities, casinos, food processing facilities, manufacturing plants and sewage treatment plants.</p>
<p>50F</p>  <p>○ ● ● ●</p>	<p>Voltage: 120V/230V Energy Use: 50 watts No. of Tubes: 5 Tube Size: F Capacity: 10,000 cfm</p>	<p>Application: In duct unit for larger central HVAC systems. Ideal for office buildings, hospitals, schools, nursing homes, childcare facilities, casinos, food processing facilities, manufacturing plants and sewage treatment plants.</p>
<p>Eco-Scrubber</p>  <p>○ ○ ●</p>	<p>Voltage: 120V/230V/480V Energy Use: per capacity No. of Tubes: varies Tube Size: varies Capacity: per spec</p>	<p>Application: Custom engineered to meet the needs of manufacturing facilities, sewage treatment plants, and other large scale operations that must purify the air prior to exhaust or recirculation.</p>

○ Residential ● Commercial ● Industrial



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