

Innovative Indoor Air Quality Technology

Aerisa is dedicated to providing the right indoor air quality (IAQ) solutions for the commercial, industrial and residential markets. Whether it is improving air quality within an educational setting, removing odors from an entertainment venue, or reducing energy consumption in new and existing buildings, Aerisa is ready to put its engineers and products to work for you.

IAQ Complaints: The Usual Suspects

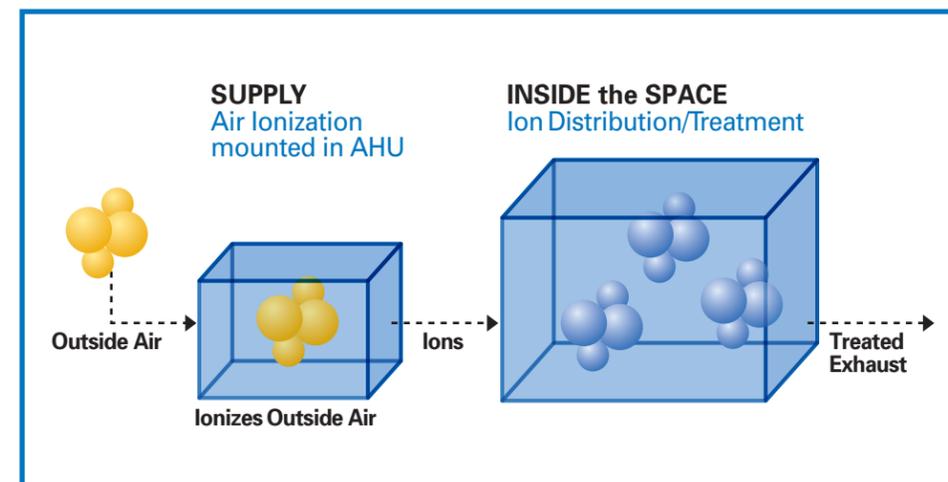
Most IAQ complaints are due to odors, gases, molds and mildew in the air. Although particulate filters will remove some larger airborne particles, these contaminants will remain airborne unless actively removed. Ideally, any IAQ solution should not interfere with existing air handling equipment, add additional static pressure (thus, increasing energy consumption) or add to the maintenance of the overall HVAC system.

The Path to Clean, Fresh & Odor-Free Air

Aerisa's ionization products are easily installed within existing air handling equipment or duct systems without the need for additional hardware. They are designed to not interfere with existing HVAC equipment, and do not add pressure drop or the need for additional particulate filtration. They can be located inside the air handling equipment, on the ductwork downstream of the air handling equipment, or even in the space itself.

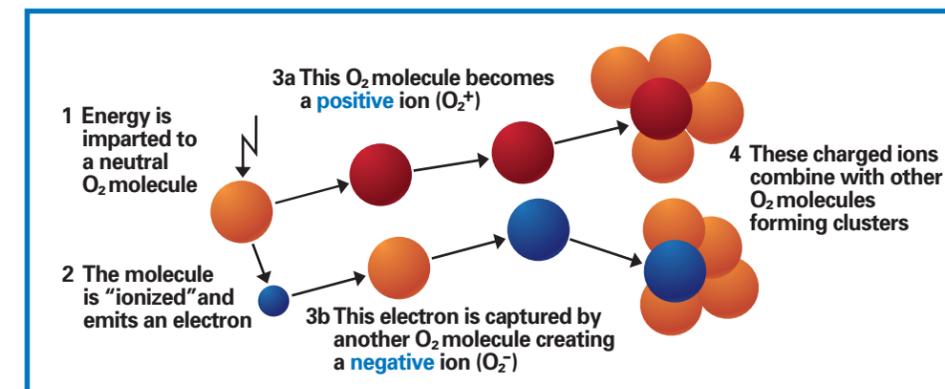
Applying Aerisa Ionization Systems

The path to clean, fresh and odor-free air is to apply the proper air purification method that will address all contaminants. Our ionization systems target the odors, VOCs, mold, bacteria, and even viruses which cause poor Indoor Air Quality (IAQ). Put simply, we are creating a highly ionized environment in order to neutralize these contaminants. Aerisa solutions can even be used to reduce the amount of energy needed to heat and cool an occupied space by utilizing ASHRAE's IAQ Procedure.



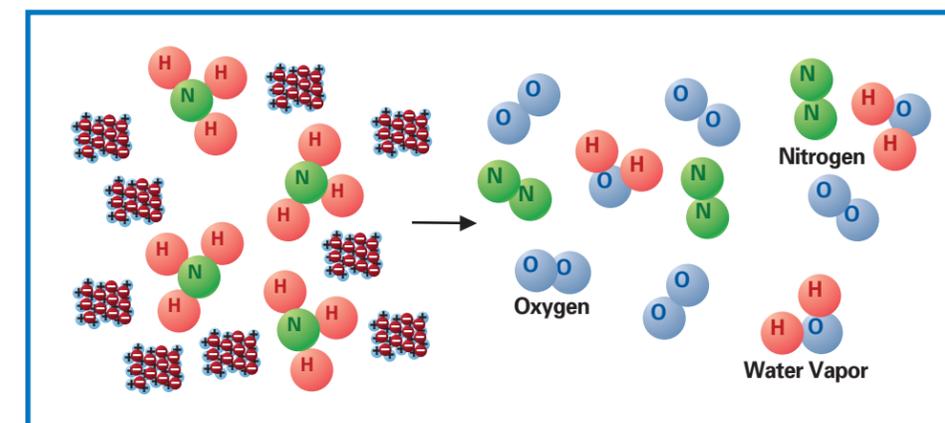
Chemistry 101: How Aerisa Ionization Systems Work

Aerisa's ionization technology utilizes highly ionized air streams to permanently neutralize a wide variety of airborne contaminants. The reactions that take place at the molecular level utilize +/- oxygen ion clusters. Once the ions have been formed and delivered into the space, they will attach themselves to particles causing them to cluster together and harmlessly fall out of the breathing zone. They also cause a chemical reaction with odorous VOC molecules breaking them down into harmless components of the original substance.

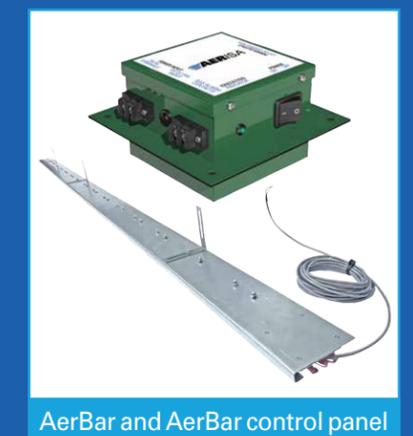


As an example, Ammonia, a very common contaminant within occupied spaces, has a molecular makeup of nitrogen and hydrogen commonly known as NH₃. When the ion clusters interact with the NH₃ molecules, they break up into nitrogen, oxygen and moisture. All three, individually, are harmless, odorless and very common in standard air.

Aerisa's ionization solutions treat odors and contaminants at their source to create a healthy and more productive environment.



- Provides Dramatic Reduction in Odors, VOCs, Particles, Mold, Bacteria and Virus
- No Chemicals, Carbons, filters, or other high maintenance components required
- Easily retrofitted into existing HVAC systems for immediate improvement in IAQ
- Treats Indoor and outdoor contaminants by installing within the HVAC system or ductwork
- Reduce first costs on new construction by up to 30% and enjoy ongoing savings in lower energy costs



AerBar and AerBar control panel

Aerisa Solution

- Treats contaminants at their source
- Creates a healthier, more productive environment
- Provides capital, installation and operational savings on new construction
- Easy to retrofit existing installations
- Little to no ongoing maintenance required
- Straightforward product selection with simple installation

Technical Benefits

- No additional static pressure to existing HVAC systems
- Very low power requirements
- Reduces energy consumption up to 30%
- Communication to local Building Management Systems

Contaminants Treated

- Wide variety of odors
- Volatile Organic Compounds
- Airborne bacteria and virus
- Mold, mildew