Air Ionization Technology
Solutions & Products

Protecting your building to reopen after COVID-19 by creating a healthy, secure, and efficient building. Building environments have a major impact on our health. Building occupants are demanding a healthy environment now more than ever.
The Protection Your Customers Expect.

Building Equipped with Clean Air Ionization Technology

Jackson Control
Facilities Management Technologies

(800) 772 - 9859
jacksoncontrol.com

* Window Door Sticker Can Be Customized
CLEAN THE AIR YOU BREATHE

WITH AIR IONIZATION TECHNOLOGY

What Are you Doing for Indoor Air Quality to Address Safety?

The Problem:

Aerosols are being considered by many health officials as a mode of infection transmission. Viral particles can remain suspended in the air for long periods of time and can be inhaled. It is critical to have disinfected air to prevent the spread of SARS-CoV-2.

The Solution:

Air Ionization Technology is proven to Reduce Coronavirus Surrogate by 99% Airborne and 80% on Surfaces in 10 Minutes. Air Ionization Technology improves the overall health & wellness of a building and its occupants, by reducing pathogens, allergens, and odors. Air Ionization Technology is highly efficient, cost-effective, and easy to install. To be most effective, the ionization installation needs to be part of the existing ventilation and filtration system.

Why Air Ionization?

Cost Effective
  • Most economical solution to clean air
  • Minimal energy cost, and in many cases an energy saving investment

Easy Installation
  • Can be mounted in any HVAC system regardless of the size or type
  • Low voltage, means a facility manager can perform the installation without an electrical contractor

Low Maintenance
  • 5 Year warranty
  • Simply wipe the ionization brushes whenever the HVAC air filter is changed

Wipes the Air Clean
  • Neutralizes Odors, Allergens, Bacteria, Viruses, Mold Spores, VOCs
  • Removes contaminants and odors from the air
How Bipolar Ionization Technology Works:

Ion Blocks are mounted in the central air conditioning system of any building. As air passes over the ion blocks, millions of positively and negatively charged ions are formed – just like in nature. These bipolar ions disperse into the occupied space through the duct system, proactively attacking airborne contaminants where they cause the most problems for occupants.

The negative ions contain an extra electron while the positive ions are missing an electron resulting in an unstable condition. In an effort to re-stabilize, these bipolar ions seek out atoms and molecules in the air to trade electrons with, effectively neutralizing particulate matter, bacteria and virus cells, odorous gases and aerosols, and VOCs.

Air ionization is safe, low maintenance, easy-to-install, energy efficient, and highly effective on pollutants such as particulate matter, bacteria, viruses, mold spores, odors, and VOCs.

What We Know Today:

Effective Air Ionization Utilizes Existing Ventilation & Filtration Systems

- Ion blocks generation an ionization cloud that covers the entire space and all occupants

COVID-19 Virus is Too Small for HEPA Filters

- HEPA Filters catch particles .3 microns or larger
- Anything less than .2 microns is not visible to the naked eye
- COVID-19 is .125 microns

COVID-19 Transfers Primarily through Aerosols in Indoor Spaces

- UV Lighting disinfection is for surfaces

Air Ionization is the Best Answer to Fight COVID-19

- HEPA Filters can’t catch the virus
- UV Lighting will not work to kill airborne virus
- Air Ionization = Opposites Attract
- Virus is a positive ion, during bipolar ionization, negative ions attach to the positive ions (virus, bacteria, allergens) and break down the membrane, neutralizing the virus
Effects of Bipolar Ionization

From USDA:

The petri dishes show sterilization effects of negative air ionization on a chamber aerosolized with Salmonella enteritidis. The left sample is untreated; the right, treated. Based on USDA testing.

From EMSL, ALG & Innovative Bioanalysis:

Independent testing conducted to show the effective kill/inactivation rate using Bipolar Ionization.

<table>
<thead>
<tr>
<th>Pathogen</th>
<th>Time Exposed</th>
<th>Kill/Inactivation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.coli</td>
<td>15 minutes</td>
<td>99.68%</td>
</tr>
<tr>
<td>C.diff</td>
<td>30 minutes</td>
<td>86.50%</td>
</tr>
<tr>
<td>Noro Virus</td>
<td>30 minutes</td>
<td>93.50%</td>
</tr>
<tr>
<td>MRSA</td>
<td>30 minutes</td>
<td>96.24%</td>
</tr>
</tbody>
</table>
| COVID-19   | 30 minutes   | 99.40%                 

From Clean Rooms & Static Control:

How to Reduce Particle Contamination Via Ionization. Ionization systems, installed in manufacturing facilities gown up rooms and product transfer areas, have proven to be critical components in reducing particle counts in the associated clean room production and assembly areas.

Jackson Control
Serving the Total Building Technology Market
Over 50 Years
www.jacksoncontrol.com
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