

# Cleaner, Safer Schools

Invest in proven technology that  
kills up to 99% of airborne viruses



**FSE** | Four Seasons  
**Environmental, Inc.**  
Facilities Performance Services

# Cleaner, Safer Schools

## Indoor Air Quality

Safe and clean buildings are vital to in-person learning. However, it takes more than wiping down surfaces to ensure a clean building. Indoor air quality is increasingly important. Indoor air is filled particles, such as dust, dander, pollen, smoke, odors and even pathogens including mold, viruses and bacteria. However, these airborne particles can be reduced, resulting in purer, healthier indoor air.



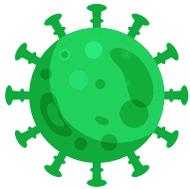
There are two technologies that are proven to reduce airborne particles: needlepoint bipolar ionization and ultraviolet light.



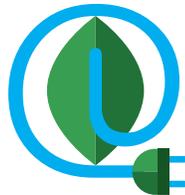
## Needlepoint Bipolar Ionization

This results-driven technology safely creates and releases ions into the airstream using your building's existing HVAC system. These ions disperse through the space, seeking out and forming bonds with particles in the air through a process called agglomeration. This creates a snowball effect, clustering more and more particles together. The larger a cluster of particles becomes, the easier it is for your system to safely filter it out of the air. This process is proven by independent laboratory testing to be both safe and effective.

Furthermore, contact with bipolar (positive and negative) ions have microbicidal effects on bacteria and viruses, disrupting their surface proteins and rendering them inactive, resulting in a purer, safer air.



Protect students and staff from bacteria, viruses, dust, mold, odors and volatile organic compounds (VOCs)



Reduce energy costs by spending less on heating/cooling outside air



Natural, safe technology: no chemicals, heavy metals or byproducts



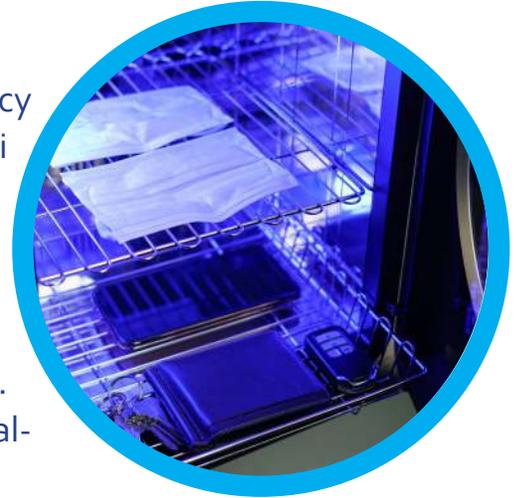
Decreased maintenance costs: no new systems to maintain

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## Ultraviolet Light

Generated naturally by the sun, UV-C, the highest frequency ultraviolet light, damage the DNA and RNA of bacteria, fungi and viruses, destroying their ability to replicate. Viruses are particularly susceptible to UV-C light.

UV-C light is a long-standing and proven technology, used for nearly a century to disinfect and purify air, water and surfaces. In fact, UV-C lighting is credited for the reduction of hospital-acquired infections.



The technology can be applied to facilities in several ways. UV-C light is applied inside an HVAC unit's air ducts and evaporator coils to inactivate microorganisms that either grow or collect in the unit. This technology removes bacterial and viral aerosols from the air. Systems can also be installed as a stand-alone unit in a room's upper air zone. Stand-alone sterilization units have also been developed to sterilize a space in less than 10 minutes without harmful chemicals.



Destroy harmful pathogens, including bacteria, viruses and fungi



Reduce costs by spending less on disinfectant wipes and sprays



Natural, environmentally friendly technology: no chemicals, heavy metals or byproducts



Decrease cleaning time for custodial and teachers: disinfects spaces in minutes



## Invest in a Safer School

Contact Four Seasons Environmental, Inc. to learn more about how you can create a safer learning space for students and staff through proven technologies.

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