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A photograph of a group of diverse children running happily down a school hallway. They are wearing backpacks and casual clothing. The hallway has lockers on the left and a bright, open end in the distance.

## AIR SANITAZING IN EDUCATIONAL FACILITIES

# BIPOLAR IONIZATION

**Helps Your Students, Staff, and Guests Breathe Easier**

**Improving indoor air quality and reducing the spread of infectious disease has always been important in schools and educational facilities. With today's concerns about coronavirus, it's become essential.**

The main purpose of the American school is to provide for the fullest possible development of each learner. In these trying times, it's now more important than ever to create a safe and secure environment for students, so they can be healthy enough to learn and grow. What if you could cleanse your facility's air of pathogens, allergens, and other contaminants, while also conserving energy—and reducing heating and cooling costs?

AIRIONEX offers a comprehensive indoor air quality solution to address all these concerns in educational facilities, where students, guests, and staff may be exposed to airborne pathogens and pollutants.

The VARIONIX Bipolar Ionization System has been proven to ELIMINATE the Coronavirus, other viruses, microbes, and allergens at a molecular level. The ions also break down odors and contaminants at their source, and bond to dust and mold particles, carrying them safely away from the air we breathe. The system continuously disinfects the air and surfaces, offering another layer of protection against pathogens, and ensuring the safest, most sanitized space for your students and staff. Without a doubt, bipolar ionization technology is the BEST OPTION AVAILABLE to protect against the Coronavirus.

## WHAT IS BIPOLAR IONIZATION?

At the core of the Varionix system is bipolar ionization technology. The system utilizes specialized, integrated tubes that convert oxygen molecules into charged atoms (positive and negative). These tubes are inserted into your existing air handling system or standalone unit. As airflow passes through the tubes, bipolar ion clusters are created and delivered to indoor air. They then attach to and deactivate harmful substances like bacteria, mold, allergens, and viruses. In the case of a virus such as the Coronavirus, the bipolar ion clusters destroy the virus' surface structure on a molecular level, killing it completely. At the same time, the bipolar ion clusters freshen indoor air, allowing for purified air to be recycled instead of incoming air being pumped in. That means, on average, a 50 percent reduction in energy costs for heating and cooling in areas with a large difference in indoor and outdoor temperatures.

## BENEFITS OF BIPOLAR IONIZATION

- ✓ **Pathogens destroyed and removed.** Bipolar ions break the cell membrane surface of bacteria and viruses, and eliminate airborne contaminants.
- ✓ **Allergens reduced.** Bipolar ions bond with contaminants such as mold and dust particles, causing them to gain mass and drop to the floor, or return to the filter. This eliminates them from the air we breathe.
- ✓ **Reduction of other common irritants.** Bipolar ions break down toxic gases and compounds from dangerous chemicals such as cleaning products, pesticides, paints, solvents, mold, mildew and more.
- ✓ **A fresh, clean school.** The last thing you want is for students or guests to tell everyone about how your facility smelled bad, but this is not uncommon. Bipolar ions break down odors at their source and eliminate them – no masking or diluting! Best of all, no more smelly gym locker rooms or chemistry labs.
- ✓ **Improved energy – and financial – conservation.** Recycling conditioned, purified air reduces the need for cooling or warming the ambient air, saving energy costs. Bipolar ionization drastically reduces the amount of incoming air needed for freshness, so less money is spent heating or cooling outdoor air. In areas where there is a strong need for heating and cooling, energy expenditures are typically reduced by about 50 percent.
- ✓ **Environmentally friendly.** The VARIONIX Bipolar Ionization System is a safe, natural, and environmentally friendly process. Our patented technology uses no chemicals, heavy metals, or mercury, and produces no harmful by-products.



## MICROBIOLOGICAL CONTAMINATION

Independent studies have shown that bipolar ionization is extremely effective at destroying airborne biological contamination. In general, most coronaviruses spread in the same manner as other cold-causing viruses: directly via aerosols (e.g. infected people coughing, sneezing), or indirectly through contact (touching a contaminated surface, then touching your nose, eyes, or mouth).

Since the virus is spread via direct and indirect contact, the continuous application of bipolar ions emitted to ambient air by the Varionix bipolar air cleaning system is ideal. The system ceaselessly disinfects both the breathing space and surfaces.

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