

# New Products from Energy Sales

## History of Air Cleaning Products and Energy Sales Inc. :

Energy Sales learned about Bi-Polar Ionization in 2009 and began an enormous amount of time and effort researching the technology. Electronic air cleaning products led us on a journey that lasted over (2) years:

Research on the web, interviews with leaders and innovators of the field, the University of Minnesota Research Labs and most of the manufactures.

An Example:

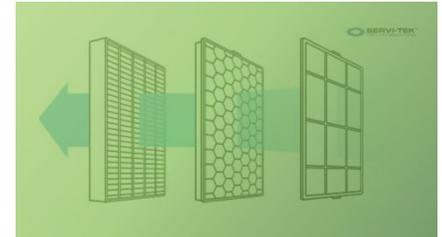
*This research led us to uncover one of the first marketing efforts in Minnesota's history. The fact that sanitariums were healing people with Tuberculosis (TB). An early misunderstanding of clean air, of ions and how they interact in the environment was used by the uneducated to promote Minnesota as a bastion of health improvement.*

*The marketing effort brought (TB) patients to Northern Minnesota in the search for clean air and health. The truth was that it wasn't just clean air, rather - ionized air that cured these patients. Whereas Minnesota didn't understand this, but instead, created a national campaign to lure people to the clean air of Northern Minnesota. The efforts resulted in very cold, unchanged/unimproved TB patients.*

At Energy Sales, we have learned that sales and marketing doesn't always tell people what they **need** to hear, but- what they want to hear. So, after years of research and diligence, ESI stepped away from the Ionization market.

Bringing us to the spring of 2021, with what we have learned in the past can help educate the industry in an honest way.

Energy Sales Inc is pleased to introduce a complete offering of Air Cleaning Manufactures that exceed expectations and are leaders in the industry.



### 1. Bi Polar Ionization

No significant Ozone Generation,  
Mid Size Ion Clusters  
(Proprietary Di-Electric Barrier Technology)



### 2. Electronic Filtration –

Bringing MERV 14 and 15  
Performance  
(No Pressure Drop)



### 3. PCO Photocatalytic Oxidation

Cleaning the air with Hydroxyl  
Radicals, UV light and Media  
(Patented – Innovative – Effective)



## Bi Polar Ionization –

From: [airionex](#)

The Varionix air purification system bipolar ionization tubes: utilizing the patented and proprietary Bentax Technologies: create a tightly controlled corona discharge “DBD Dielectric Barrier Discharge”.

This discharge forms non-thermal, unstable gas plasma, within which are positive and negative ions, and the intermediates of oxygen: atomic oxygen, oxygen ions (O<sub>2</sub><sup>-</sup>), singlet-oxygen, and ozone. (The amount of ozone produced is max. 0.005 ppm, less than 90% of the strictest safety limit of 0.05 ppm)



**airionex**  
technology inspired by nature

## Electronically Powered Air Filters –

From: [CASINO AIR](#)

This Electronic Air Filter utilizes 24V power to electrically enhance the filtration media for up to MERV 15 efficiency.

Creating a low pressure drop and high dust holding capacity.  
Bringing an Excellent filtration solution for energy and maintenance cost savings.

### COMPONENTS



- a GLASS FILTER PAD
- b CARBON STRING PAD
- c PANEL
- d POWERHEAD
- e POP-UP CORNER
- f METAL POWER BAR

**Casino**  
AIR

## PCO PhotoCatalytic Oxidation –

From : [IAQ Solutions](#)

IAQ Solutions incorporates a revolutionary technology in our IAQ Solutions Photocatalyst GAP™ to reduce airborne biologics and Volatile Organic Compounds.

Proven, third-party tested in the lab and field tested.  
Certifications: UL, CARB, FIFRA (EPA) and OSHPD  
Rationalized design using ASHRAE Standards for application-specific products.

Safe – no ozone or by-products broadcast into the occupied space, no accumulation of chemical contaminants; converts toxic substances to benign material.



**IAQ Solutions**  
The Natural Path  
to Clean Air