

What is PlasmaGuard™?

All of PlasmaGuard's™ technologies utilize cold plasma, which produces an electrostatic charge, an agglomeration, and a non-thermal flameless plasma. This results in the independently proven deactivation of viruses, bacteria and pathogens. This is the safest and best air purification method available for use throughout all buildings and transportation vehicles.

As 99% of homes, buildings and transportation vehicles currently use dust filters as defense systems, our proprietary and patented state-of-the-art air pollution control equipment has the highest possible removal rate and efficiency for toxic solid and liquid particles regardless of their chemical composition and size.



Nothing Else Comes Close!

How it Works

The Patented Process Delivers Pure Air to Buildings and Transportation Vehicles.

PlasmaGuard™ is the first line of defense to protect and increase air quality. Our ions deactivate the outer protein lipid bi-layers of almost all pathogens. It is the ultimate solution for anyone suffering from asthma, allergies, migraines, and boosts overall health, wellness, energy and productivity. Our systems can be ceiling mounted, or connects to any existing air duct system before or after the main HVAC unit.



PlasmaGuard™ deactivates both airborne and surface pathogens.

WE SPEND 90% OF OUR TIME INDOORS

Research indicates that people spend approximately **90 percent** of their time indoors. Thus, for many people, the risks to health may be greater due to exposure to air pollution indoors than outdoors.

US EPA

99.994%

PlasmaGuard PRO inactivates SARS-CoV-2 (COVID-19) to 99.994% within minutes

PlasmaGuard PRO™ reduced SARS-CoV-2 (COVID 19) viruses by 49.5% after 15-minutes, and attained a 97% reduction after 30-minutes. At the 60-minute mark, the viral decay rate had already achieved 99.994% viral inactivation (>4 Log Reduction)

30% FEWER

Sick Building Symptoms and better environmental perceptions



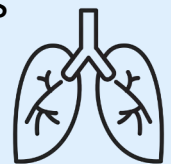
6.4% HIGHER

Increased Awareness and Sleep Quality Scores



Reduce Allergens and Asthma Triggers

PlasmaGuard™ reduces **99.8%** of all airborne allergens and **99.5%** of all airborne asthma triggers including: dust, pollen, smoke, bacteria, viruses, pathogens, etc.



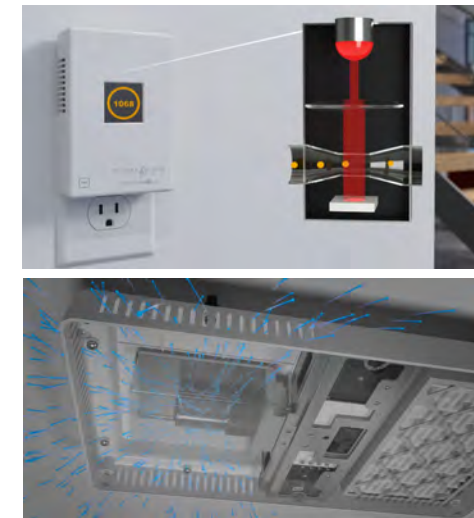
Above The Rest

Traditional HEPA filters only seize pollutants and contaminants greater than 5 microns in size, but not efficient enough to capture highly harmful pathogens and contaminants that exist today. PlasmaGuard PRO™ works harmoniously with your HVAC unit and destroys harmful pathogens and contaminants as small as 0.05 microns in size, ensuring that the purest air possible is always available to you.

	PlasmaGuard ELT™ PlasmaGuard STAX™	PlasmaGuard PRO™	Typical Ionizers	Media Filtration	UV
Destroys all Pathogens on 1st Pass	✓	✗	✗	✗	✗
Capture/Reduce Contaminants	✓	✓	✗	✓	✗
Significantly Reduces Surface Contamination	✓	✓	✗	✗	✗
Continuously Disinfects Ducts	✓	✓	✗	✗	✗
Reduces Odors	✓	✓	✓	✗	✗
Reduces VOCs	✓	✓	✓	✗	✗
Reduces Particles (PM)	✓	✓	✓	✓	✗
Effective on Bacteria, Viruses and Germs	✓	✓	✓	✗	✓
No Chemical or By-Products	✓	✓	✓	✓	✗
Maintenance	NONE	Bi-Annually	Bi-Annually	Quarterly	Annually

Real-Time Monitoring

We are the only company that provides a sensor inside the room so you can visually detect and monitor our particles in the occupied space. As particulates from .3 microns to 10 microns enter the room, the sensor will communicate with the PlasmaGuard generator to flood the room with ions to destroy the particles.



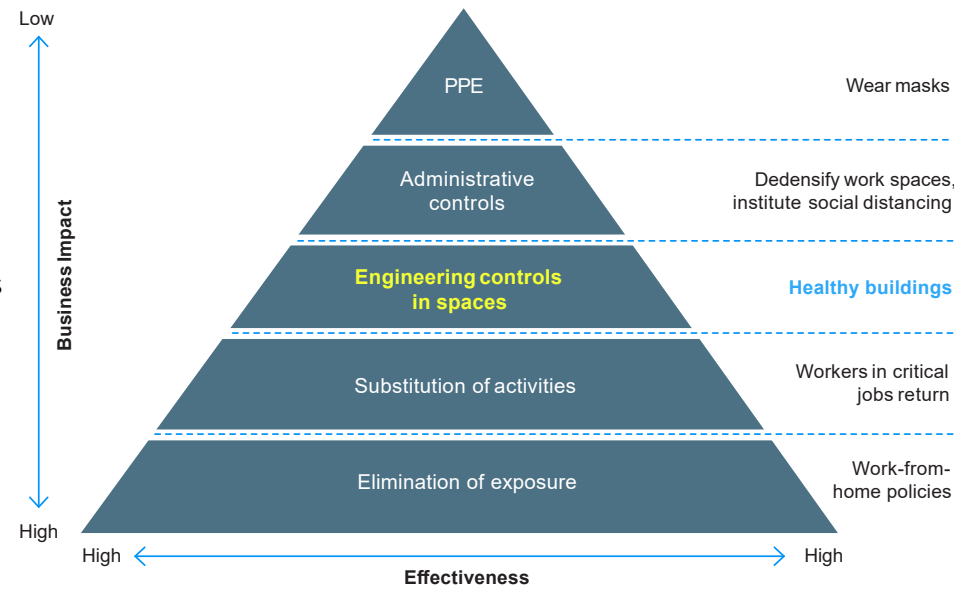
SPECIFICATIONS

SPECIFICATION	PG-PRO
Supply Voltage	100-240 VAC
Energy to operate	<10 Watts
Secondary Voltage (Ionization)	4K-5K V
Capacity - Up to 3000 CFM	300-1500 CFM (UL Test); >3000 CFM Capability
Capacity - Covers 2,000+ Square Feet	Yes
Central Duct-Mounted Installation	Yes
Method of Purification	Bi-Polar Cold Plasma Air Ionization
Eliminates Indoor Ozone	Yes - Patented "Ozone Depletion Mode"
Ozone Filtration	Yes - Patented Ozone Filter
Works on Demand from actual IAQ sensor readings	Yes
User Adjustable Clean Air Settings	Yes
3rd Party Lab Validation on reduction of viruses, bacteria, pollens, etc	Yes
Visual Display of Air Quality by Color Code	Yes
Visual Display of Air Quality by Numeric Value	Yes
Pairs with IAQ Sensor	Yes
Built-in Ozone Sensor	Yes
Built-in Air Particulate Sensor	Yes
Real-Time Feedback	Yes
Cloud-Based IoT Connection Capability	Yes
Does System have ability to gather other sensor data of interest	Yes
Can System directly integrate with Home Automation technology	Yes
Can System directly integrate with Smart Phones	Yes
Can System Status be sent to Owner / Operator by text or email	Yes
Can System integrate with Smart Filter Sensor technology	Yes
UL Listed Device	Yes for UL 867, UL 2043
UL Tested Ozone Output below CARB Standards of 50ppb	Yes (<10 ppb max)
FCC Compliance	Yes

The Role Of Healthy Buildings in Reopening

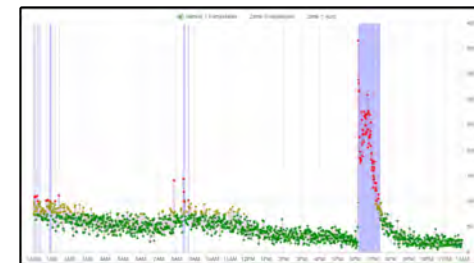
Creating a healthy building through engineering controls in spaces is a key component of combating COVID-19. It's a strategy that balances overall effectiveness with the financial impact it can have on the business.

Allen, J.G., & Macomber, J.D. (2020, April). "What Makes an Office Building "Healthy." Harvard Business Review



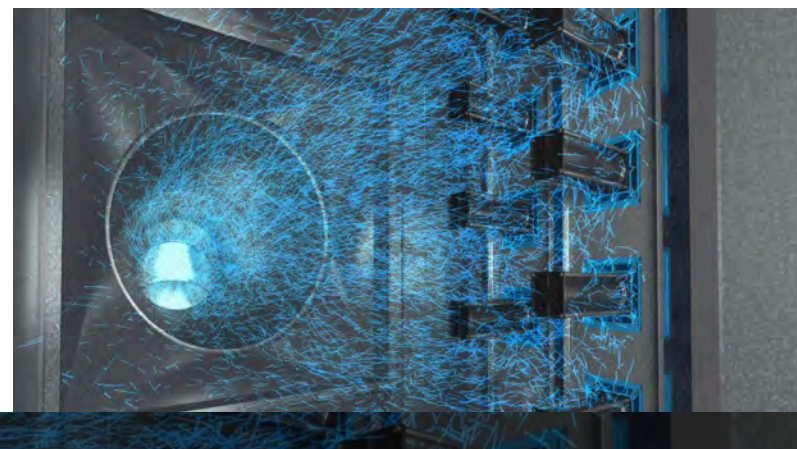
Monitor Your Air From Anywhere

The PlasmaGuard™ system allows one to monitor your protected space 24/7 from your phone or computer. The PlasmaGuard™ systems continuously operating with your existing HVAC system. This ensures not only rapid pathogen/contaminant reduction, but also ensures that excess reactive ion species are always available in the air to rapidly respond to any air quality threat. This benefit ensures that your air is protected even before it enters the HVAC system. The PlasmaGuard™ systems are designed to give you the ultimate in confidence that you have provided the cleanest cycle of clean air possible.



Protecting Our Education

Our goal at PlasmaGuard™ is to protect our education system to allow our kids and country to grow. Using the air flow from your existing HVAC fan, the PlasmaGuard PRO™ purification unit bombards the air with millions of air-cleaning oxygen ions, removing particulates, eliminating germs, and breaking down VOCs. The result is that every vent in your home or small office becomes its own air purification unit, treating indoor airborne pollution problems at the source. The purification unit uses the power of nature to clean, refresh, and energizes the air you breathe.



We Deliver Air Security When and Where You Need it Most



HVAC In-Line Duct System



Ceiling Mount System



PlasmaGuard PRO™ is an in-line HVAC or ceiling mounted air purification system. Our patented blend of high energy ions floods the area and begins the purification process immediately and attack air and surface contaminants while driving particles out of the air and neutralizing odors. Each unit will cover up to 3,000 sq ft of area, but can be combined with other units for larger spaces. This ensures that you and your family are always breathing the cleanest air possible.

What We Protect and Serve

Students and Faculty



Classrooms



Lunchrooms



Bathrooms

Families and Guests



Board Meetings



Sporting Events / Concerts



Graduations

Buildings and Transportation



School Busses



Building with HVAC



Buildings without HVAC