PCA Ionization System BGSE-150-BPIM

Airflow Sanitizing Bipolar Ion Generator

Weak Pathogens (viruses, bacteria, mold)

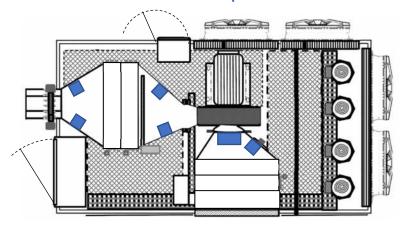
Destroys Odors caused by VOCs (fuel and chemicals)

Reduces Particulates suspended in the airstream





Multiple installation locations and airflow options

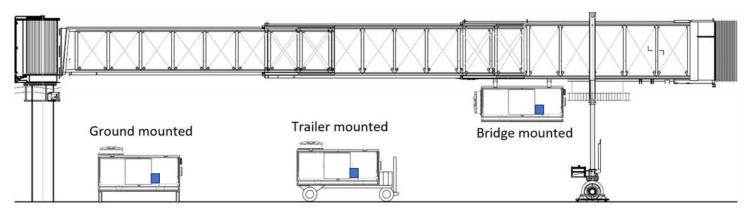




Suitable for new equipment and field retrofits – all makes, all models, fixed or mobile!

For Central System AHUs or PoU DX Units

Easy installation + No control interface required + Multiple Voltages





Exclusive Worldwide Distributor

BGSE GROUP LLC 14034 Clarendon Point Court Huntersville, NC 28078 United States of America sales@bgsegroup.com +1 (704) 488-0084







BGSE-150-BPIM Bi-Polar Ionization System

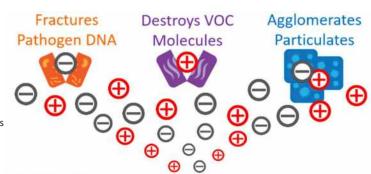
Product Description

The BGSE-150-BPIM is an autocleaning, zero-maintenance, needlepoint bipolar ionization system designed to handle up to 150 tons of airflow. The generated ions kill microbes and destroy odors in the airstream and the conditioned space.

Features

All-composite and carbon fiber construction, universal voltage input, in-line On/Off switch, programmable auto-cleaning cycle, plasma on indication light, alarm contacts, mounting magnets and replaceable carbon fiber brush emitters*.

*Life cycle testing shows no mechanical degradation of the carbon fiber brushes due to repeated cleaning cycles



Options

Ion detector for one-time or real-time confirmation of delivered free ions, and BAS communication of system status.

Benefits



Kills Pathogens (Viruses, Bacteria, Mold), Helps to Control Allergens/Asthma



Neutralizes Odors by destroying VOCs



Reduces Particles and Smoke*

*These statements are based on numerous customer testimonials and have not been evaluated by the FDA.

Specifications

Input Voltage	24VAC to 240VAC	
Amps	0.41A to 0.041A	
Power	10 Watts	
Frequency	50/60HZ	
Total Ion Output	> 400 Million ions/cc/sec	
Airflow Capacity	Up to 150 tons of airflow	
Temperature/Humidity	-20°F to 200°F / 0-100% RH	
Unit Dimensions/Weight	11.1"L x 1.84"W x 3.52"H / 1.32 lbs	
Electrical Listings	UL, cUL, CE	
Alarm Contact Rating	250VAC/ 1A	
Compliance & Certifications	UL 867, OSHPD Seismic (OSP), IAQP	

The BGSE-150-BPIM is designed to be maintenance free, thanks to the patent-pending self-cleaning system.

Multiple installation options are possible due to the auto-detecting universal voltage input module, and the magnetic mounting tabs, which allow tool-less mounting and repositioning in the ductwork.

The system is designed for full wash-down capability without damage or deterioration.

Exclusive Worldwide Distributor

BGSE GROUP LLC 14034 Clarendon Point Court Huntersville, NC 28078 United States of America sales@bgsegroup.com +1 (704) 488-0084



.



Reducing the Spread of Disease Through Needlepoint Bipolar Ionization (NPBI) Technology

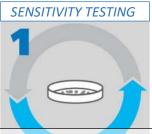


Inactivates Pathogens - When ions come into contact with pathogens, they steal away hydrogen from the pathogens, destroying its DNA and reducing the infectivity of the virus.

Clears the air of particles faster - Particulate matter includes pollutants, dust, allergens, mold, bacteria - and viruses. NPBI technology generates a high concentration of positive and negative ions that travel through the air continuously seeking out and attaching to particles. The agglomerated particles are more easily captured by the ventilation and filtration systems or become too heavy and cannot remain suspended in the air.

Safe - NPBI is safe to use across all commercial, industrial, and residential applications. Traditional bipolar ionization systems produce harmful ozone as a byproduct, but NPBI is OZONE FREE.

Performance Validation



A petri dish containing a pathogen is placed under a laboratory hood, then monitored to assess the pathogen's reactivity to NPBI over time.

Controlled environment for comparing different pathogens.



Counts of airborne pathogens are taken before and after aerosolizing them into a sealed laboratory environmental room installed with NBPI.

Larger space simulates a real-world environment.



Measurements in real applications can be compared in spaces with and without NPBI, or the same space before and after NPBI.

Pathogens occur normally, not introduced specifically for testing.

Pathogen Tested:

SARS-CoV-2, the virus that causes "COVID-19"

Date: 5/27/2020

Laboratory Name: Innovative Bioanalysis **Cap Lic No:** 9501843

INNOVATIVE **BI**ANALYSIS

Creating administra I feering results		
Time	% Inactive	
10 minutes	84.2%	
15 minutes	92.6%	
30 minutes	99.4%	

ATS*LABS

TIME IN CHAMBER RATE OF REDUCTION

TIME IN CHAMBER

RATE OF REDUCTION

RATE OF REDUCTION

Clostridium Difficile

RATE OF 96.2%

MRSA TIME IN CHAMBER 30 MINUTES

Tuberculosis

RATE OF FEDUCTION 69 00%

60 MINUTES

Staphylococcus

TIME IN CHAMBER RATE OF REDUCTION



MINUTES RATE OF REDUCTION

6 TEST VS. 6 CONTROL ROOMS **GRAM NEGATIVE RODS** REDUCED TO 0 4%-99%

Major Medical Center

BEFORE VS. AFTER 1 MONTH

Air Travel **Command Center**

> PARTICLE REDUCTION



