



CLASSROOM CLEANLINESS

Needlepoint Bipolar Ionization (NPBI®) Kits

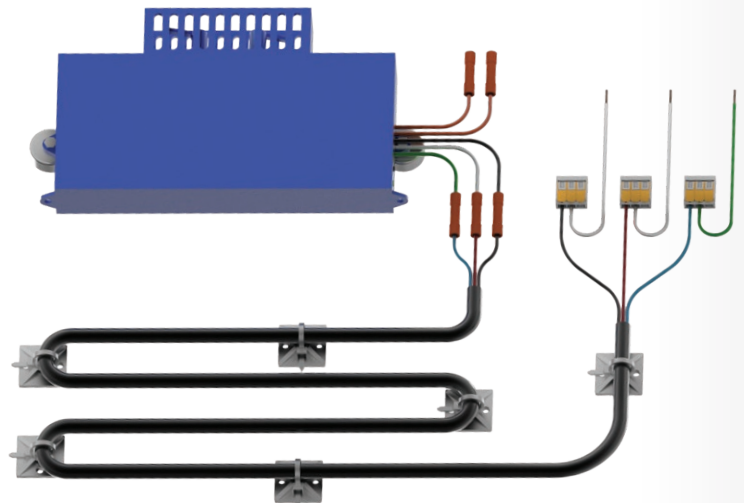
Keeping your staff and students comfortable and safe should always be your number one priority, and that includes ensuring the classroom is equipped with high-quality heating, cooling and ventilation system solutions.

Modine has partnered with Global Plasma Solutions (GPS) to bring their air cleaning technology to Modine products with an easy-to-install retrofit kit. Needlepoint Bipolar Ionization (NPBI®) does not introduce ozone and improves air quality by minimizing harmful substances in the air like bacteria, mold, allergens and viruses, providing peace of mind for end users. The ionization device can be installed and directly attached to an installed Modine Airedale unit, maximizing efficiency and operation.

Kits Include:

- Pre-wired Needlepoint Bipolar Ionization unit
- Custom wiring harness with fasteners

2-Year Warranty on all NPBI® that are retrofit into Modine units.



HOW IT WORKS

This patented technology produces a high concentration of positive and negative ions, delivering them to the space via the ventilation system. Within the air stream, ions attach to particles, where they combine, become larger and are more easily filtered from the air. When ions come into contact with pathogens*, they disrupt the pathogens' surface proteins rendering them inactive.

HOW IT IMPROVES AIR QUALITY

Targets Particles

When these ions disperse throughout a space, such as an office or a schoolroom, they combine with particles suspended in the air. This creates a snowball effect in which particles of opposite polarities begin to cluster together, which makes them easier to capture in filtration systems.

Reduces Pathogens*

During the NPBI®, contact with ions disrupts pathogens' surface proteins, rendering them inactive and unable to replicate.

Tackles Odors

GPS' NPBI® technology breaks down chemical, pet, cooking and other odors into basic harmless compounds, leaving indoor air smelling fresher and cleaner, significantly reducing odor-causing VOCs.

Safe Technology

Traditional bipolar ionization systems produce harmful ozone. GPS offers products that are certified by independent laboratories to be ozone-free and safe to use across commercial, industrial and residential buildings.

INSTALLATION AND MAINTENANCE

We've made installation quick and easy! The NPBI® retrofit kits offer a "plug & play" solution into our Modine Airedale units by connecting two wires (and the ground) to existing terminals, and then securing the custom wiring harness with fasteners. Upon installation, there is no maintenance needed as the device is self-cleaning.

GPS-FC24-AC™ SPECIFICATIONS

- Input Voltage: 24V to 240V AC/DC
- Operating Amps: 0.17 – 0.017 Amps
- Cleaning Cycle Amps: 0.33 – 0.03 Amps
- Power Consumption: 8 Watts
- Frequency: 50/60 Hz
- Total Ion Output: > 300 Million ions/cc
- Airflow Capacity: 0 to 2,400 CFM or up to 6 tons
- Temperature Range: -20°F – 200°F
- Humidity Range: 0 – 100% RH
- Unit Dimensions: 7.9" L x 1.1" W x 5.0" H
- Weight: 1.25 lbs
- Electrical Listings: UL, cUL
- Alarm Contact Rating: 250VAC / 1A, N.O. "dry" contact
- Compliance & Certifications: UL 867, OSHPD Seismic (OSP), IAQP, CE

ITEM/PART NUMBERS

Item #	Part #	Description
59515	3H1015180000	NPBI Self Cleaning Service Kit
59513	5H1053120001	Ion Counter, AIC
59514	5H1053120002	Ion Counter, AIC2

*Global Plasma Solutions (GPS) uses multiple data points to formulate performance validation statements. GPS technology is used in a wide range of applications across diverse environmental conditions. Since locations will vary, clients should evaluate their individual application and environmental conditions when making an assessment regarding the technology's potential benefits.

The use of this technology is not intended to take the place of reasonable precautions to prevent the transmission of pathogens. It is important to comply with all applicable public health laws and guidelines issued by federal, state, and local governments and health authorities as well as official guidance published by the Centers for Disease Control and Prevention (CDC) (<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>), including but not limited to social distancing, hand hygiene, cough etiquette, and the use of face masks.



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