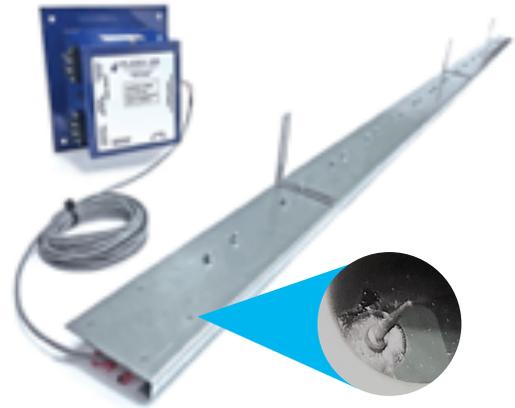


PRODUCT COMPARISON

GPS-iMOD® vs. Plasma BAR



GPS-iMOD

PLASMA BAR

Needle Type	Carbon Fiber Clusters	Titanium Nickel
Needle Spacing	0.50"	2 Needles per 6"
Ion Output (ions/cc)	> 140M ions/cc/sec per inch of bar	20M ions/cc/sec per 6 inches
Voltage Input	24 - 240VAC (universal)	24VAC or 12VDC*
Bar Length	Up to 240"	18" to 96"
Bar Material	Synthetic Non-Flammable	Galvanized
Power Supply	Up to 6 bars	2 bars
BAS Alarm Contact	Yes	Yes**
Electrical Listing	UL, cUL, CE	ETL, UL Classified, CE
UL 2998 - Ozone Free	Yes	No
Ionization Field	5 Feet	<6 inches
Cleans Coils	Full Depth	Surface Only
Mounting Space	1" on Face	3" on Face
Lead Time	1-2 days	2-3 weeks

* Additional power supply needed for 120V - 230V. Transformer needed for 277V

**Alarm activated only if all modules fail

GPS®

GLOBAL PLASMA
SOLUTIONS

Engineering Air for a Cleaner World™

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PRODUCT COMPARISON

GPS-iMOD® vs. Plasma BAR

About the GPS-iMOD

The GPS-iMOD is designed with a fiberglass infused nylon material that is UL listed for smoke and flames. The material has a very high dielectric (electrical insulating value). Each 6" section is filled with epoxy resin to protect the high voltage circuit. The GPS-iMOD power supply produces approximately 5,500VAC that is sent to the carbon fiber brushes. At the power entry to the ionization bar, a high value resistor is used to limit the current (micro amps) to the carbon fiber brush emitters. The emitters are carbon fiber and do not degrade over time. In addition, the needles are easily accessible for cleaning, in the event they get dirty. The GPS-iMOD is an alternating current (AC) ionization bar. Each needle cluster alternates between positive and negative at 60HZ, so the bar is essentially self-cleaning and the same deposits as seen on a DC bar will not occur.

The GPS-iMOD is a much more robust design that will work in environments and corrosive applications. It will also clean the entire cooling coil through the entire depth. Each bar can cover up to five feet of coil height up to 240 inches wide. The GPS-iMOD is UL 2998 listed as **ozone free**.



**Contact your local
GPS Representative to learn more!**

About the Plasma BAR

The Plasma BAR uses off-the-shelf ionization modules spaced every 6" and attached to a "C" channel galvanized bar. The modules are bipolar, DC-type. Each module has two needles. One produces only positive ions while the other produces only negative ions. The needles are recessed and hard to access for cleaning. The modules are DC voltage and use metal needles that become dirty quickly, thus reducing the ion output. Single pole DC ionization systems attract particles passing by the electrode of the opposite polarity. The particles accumulate on the electrode, further reducing the ionization output.

The DC modules used in the Plasma BAR requires 12VDC to operate. Internally, the voltage is increased to a higher level and applied to the needles. There is no protection for the high voltage circuit. Internal arcing will occur and short the module. This is the same module used in Plasma Air's Series 7000 duct mount ionization units. In the Series 7000 instruction manual (IOM), it states not to mount in high humidity environments, such as downstream from a cooling coil. The higher humidity reduces the resistance/dielectric of the air and allows arcing to occur. The modules should not be used in environments over 60% relative humidity (RH).

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