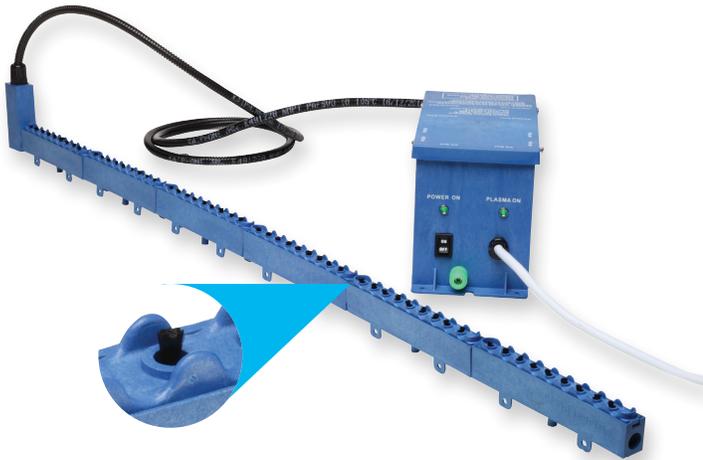


PRODUCT COMPARISON

GPS-iMOD® vs. Plasma BAR-X



	GPS-iMOD	PLASMA BAR-X
Needle Type	Carbon Fiber Clusters	Single 316 Stainless
Needle Spacing	0.50"	0.75"
Ion Output (ions/cc)	> 140M ions/cc/sec per inch of bar	35M ions/cc/sec per inch of bar
Voltage Input	24 - 240VAC (universal)	115 or 230VAC (select)
Power Usage	15 Watts	60 Watts
Bar Length	Up to 240"	3" to 144"
Bar Material	Synthetic Non-Flammable	Brushed Aluminum
Power Supply	Up to 6 bars	2 bars
BAS Alarm Contact	Yes	No
Electrical Listing	UL, cUL, CE	cULus, CE
UL 2998 - Ozone Free	Yes	No
Lead Time	1-2 days	3-5 weeks

GPS®

GLOBAL PLASMA
SOLUTIONS

Engineering Air for a Cleaner World™

Global Plasma Solutions
www.GlobalPlasmaSolutions.com

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PRODUCT COMPARISON

GPS-iMOD® vs. Plasma BAR-X

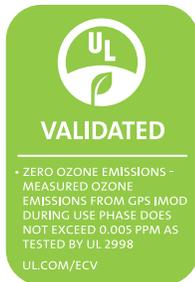
About the GPS-iMOD

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, or electrical insulating, value. There are no epoxy filled end caps required for the high voltage termination. 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 GPS-iMOD is a resistively coupled design versus capacitive coupled like Plasma BAR-X. The GPS-iMOD has no ground reference for high voltage “creep” and the system is resistively coupled. Therefore, the GPS-iMOD will not incur the same failures experienced by the Plasma BAR-X.

The GPS-iMOD is a much more robust design that will function in high humidity environments and corrosive applications. It will also clean the 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**.

About the Plasma BAR-X

Plasma Air’s BAR-X uses an aluminum grounded frame. The high voltage (5,500 VAC) produced travels down the interior of the bar and terminates in an epoxy gel with end cap. Sometimes the epoxy develops air bubbles during the curing process, which create a path for the high voltage to “creep” to the aluminum grounded exterior. The needles are inserted through the plastic holding bar located inside the aluminum bar. They just touch the exterior of the high voltage conductor cable’s outer wall. This creates a capacitive-coupled design as there is no direct connection of the needles to the high voltage. This also creates a problem in high humidity environments where the RH > 70%. The high humidity reduces the resistance and the air’s dielectric properties. Capacitance changes with humidity, so the output decreases as the humidity increases. In addition, higher humidity also enables the high voltage to find or create a path to ground, resulting in a bar that fails due to short circuiting.



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

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