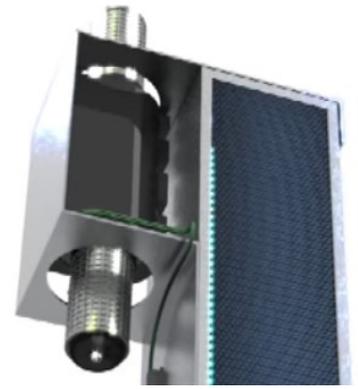


## MCI™ Multi-Cluster Ionization Technology (Power of Dual Cells)

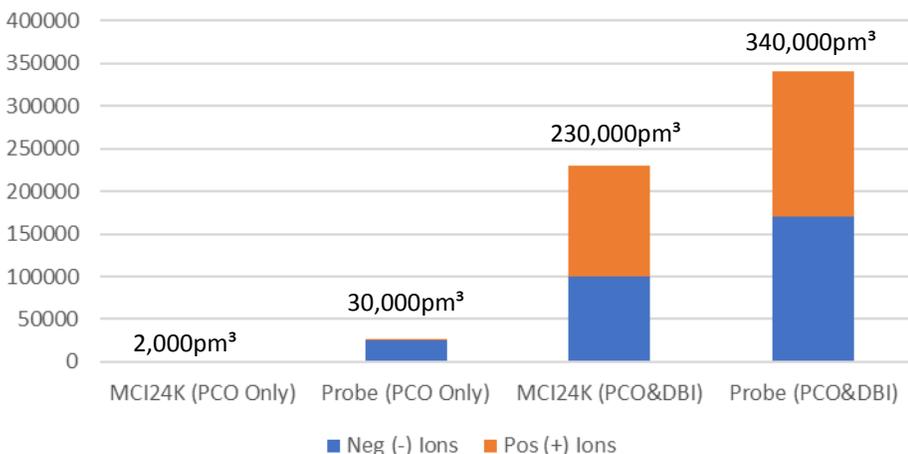
**WHY?** The trademarked MCI™ Multi-cluster Ionization technology is a unique, pro-active, award-winning and wholistic approach to cleaning both the air/surfaces of indoor contaminants. By combining a unique UV w/target plate (PCO-Photo-Catalytic Oxidation) with the patented ionization cell (DBI-Dielectric Barrier Ionizer), Best Living Systems takes the best characteristics of both and provides a synergy that enhances each. Whether in an induct probe, ceiling-mounted or free standing stand-alone unit, these technologies reduce and/or eliminate mold, mildew, bacteria, particulates and VOCs from our breathing space creating cleaner and healthier indoor environments.



**COMPARISON**—When compared to other technologies on the market, the components utilized to produce the MCI™ Multi-Cluster Ionization process are advanced technologies and are, in some cases, patented or trademark protected. How do they compare?

Technology	BLS Uniqueness	Advantage(s)
UV Lamp	NO Ozone	With competitors, ozone can accumulate near the device and exceed the .05ppm considered safe in indoor environments. Ozone produced in BLS units is about the same as a computer, copier or ceiling fan and is dissipated by dilution after leaving the unit.
UV Lamp	24,000 hour	Most germicidal UV lamps are only 10,000 hr. & begin degrading in the first six (6) months, virtually ineffective after nine (9) months. With UV, annually replace for optimal use.
Target Plate	Quad-Metallic Coating	Typical PCO technology utilizes only TiO <sub>2</sub> . Though effective, it is less effective than the quad-metallic coating BLS uses to produce a much greater number of hydroxyls and ionization.
Target Plate	Honeycomb Shape	The catalytic process is dependent on the amount of surface area directly exposed to the target. Honeycomb exposes a greater surface area to the UV, producing more hydroxyls.
UV w/Target	Separate Parts (1)	By separating the UV lamp from the target plate (instead of mechanically connecting them) the replacement of the lamp does not require both parts to be replaced at the same time.
UV w/Target	Separate Parts (2)	The nature of PCO technology makes the target plate self-cleaning so there is no reason to replace the honeycomb for the life of the product. (smaller units combine the components)
DBI	Patented	There are, of course, some other copy-cats on the market but they use less expensive & effective electrodes and transformer. The patented DBI cell is a 3 year cell w/LED indicator.
DBI	Clustered Ions	Other units use either needle point or brush ionizers which are limited by air flow and obstructions making it impossible for them to get through spaghetti ductwork, VAVs or grills.
Ballast	Life-Time Warranty	BLS provides an affordable upgraded warranty that extends the life of the ballast to the life of original owner. The only replacement maintenance is the UV lamp and DBI cell.
Ballast	Low Voltage	Ballasts are convertible from 110v or 220v (by changing the plug) to 12v making the units extremely energy efficient without the restriction of distance from plug to device.
Combined	Synergistic Approach	PCO technology is good on VOCs but especially good on odors and microbes. DBI is good on odors and microbes but especially good on VOCs. By combining the two technologies synergistically, the effectiveness of each is improved and this accomplished without ozone.

Production of Ions ONLY



Tests were conducted for BLS by GreenTech in 02/2017 utilizing an ion meter placed 3' from the downstream side of each unit. Units used were the MCI22K and the MCI™ SynAIRgPure probe with a NO O<sub>3</sub> producing PCO cell.

### TOTAL ±Ions Produced

	MCI22K	SynAIRgPure*
PCO Only	2Kpm <sup>3</sup>	30Kpm <sup>3</sup>
PCO+DBI	230Kpm <sup>3</sup>	340Kpm <sup>3</sup>

\*Adding a 2<sup>nd</sup> DBI Cell may result in twice the production of ions.