

Belnor Engineering's Global Plasma Solutions Virtually Eliminates Static SARS-CoV-2 with Proprietary NPBI™ Technology

Belnor Engineering's GP Solutions is the first air purification solution to test SARS-CoV-2, achieving a 99.4% reduction of the surface strain within 30 minutes

TORONTO, ON, CANADA, June 16, 2020

/EINPresswire.com/ -- [Belnor Engineering's Global Plasma Solutions](#), the leader in Indoor Air Quality, announced on June 10, 2020 industry-

leading ionization testing results, demonstrating a 99.4% reduction rate on a SARS-CoV-2 (COVID-19) surface strain within 30 minutes, the first instance in which an air purification company has effectively neutralized SARS-CoV-2. Following initial testing of coronavirus 229E in March 2020,

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A first for any company, Belnor Engineering's GP Solutions announced ionization testing results demonstrating a 99.4% reduction rate on a SARS-CoV-2 (COVID-19) surface strain within 30 minutes.”

President, Belnor Engineering



INNOVATIVE CONTROLS & RENEWABLE ENERGY SOLUTIONS

Belnor Engineering, Toronto, Ontario, Canada

Global Plasma Solutions utilized its proprietary needlepoint bipolar ionization to inactivate SARS-CoV-2. The study was jointly executed with Aviation Clean Air.

In this laboratory study, Aviation Clean Air designed a test to mimic ionization conditions like that of a commercial aircraft's fuselage. Based on viral titrations, it was determined that at 10 minutes, 84.2% of the virus was inactivated. At 15 minutes, 92.6% of the virus was inactivated, and at 30 minutes, 99.4% of the virus was inactivated.

“The testing results we achieved through our proprietary needlepoint bipolar ionization technology clearly demonstrate that Global Plasma Solutions is the gold standard in air purification,” said Global Plasma Solutions Chief Technology Officer, Charles Waddell. “For any kind of facility from commercial buildings to aircrafts, delivering the cleanest, safest indoor air environment will only become increasingly more important, and our ozone-free technology is one of the most sophisticated products on the market.”

Understanding Needlepoint Bipolar Ionization

Needlepoint bipolar ionization works to safely clean indoor air, leveraging an electronic charge to create a high concentration of positive and negative ions. These ions travel through the air continuously seeking out and attaching to particles. This sets in motion a continuous pattern of particle combination. As these particles become larger, they are eliminated from the air more rapidly.

Additionally, positive and negative ions have microbicidal effects on pathogens, ultimately reducing the infectivity of the virus. Global Plasma Solutions' needlepoint bipolar ionization is ozone-free and the only kind in its category to pass the RCTA DO-160 standard for aircraft. Traditional bipolar ionization systems produce harmful ozone as a byproduct.

About Belnor Engineering

Belnor Engineering, home of the Belnor IAQ Warden™: The World's Smartest HVAC Companion, is the official multiple consecutive award-winning distributor of innovative architectural products around the globe. At the forefront of sustainability for over three decades, we specialize in laboratory & building automation & controls, IAQ & HVAC systems, renewable energy & architectural solutions, and technical services — building green cities one green building at a time. For more information, visit their website and don't forget to read their Sustainability Manifesto: Decade Of 2020.



The world's first auto-cleaning, lightweight duct-mounted NPBI electronic air cleaner. The maintenance free unit is designed for indoor or outdoor duct mounting and can handle up to 4,800 CFM or 12 tons.



With over 30 patents and more than 150,000 installations worldwide using our NEEDLEPOINT BIPOLAR IONIZATION technology, also known as NPBI, Belnor's GPS solutions are truly the Indoor Air Quality (IAQ) revolutionIZER.

About Global Plasma Solutions

Belnor Engineering's Global Plasma Solutions (GPS) is the leader in Indoor Air Quality, with over 30 patents and more than 150,000 installations worldwide using our needlepoint bipolar ionization (NPBI) technology to deliver clean indoor air that is safe and healthy — producing neither ozone nor other harmful by-products. All of our NPBI products are UL and CE certified and registered and use NPBI to purify the air by eliminating airborne particulates, odors and pathogens.

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