



THE SCIENCE OF CLEANER, SAFER AIR

GPS's Unique Needlepoint Bipolar Ionization Technology Is Safe and Effective

GPS is the world's leading provider of advanced Needlepoint Bipolar Ionization (NPBI™) technology, which has dramatically strengthened how hospitals, schools and thousands of sensitive, high-use locations improve indoor air quality. As a complement to air filtration and modern HVAC installations, GPS's cutting-edge systems can create an environment that enables the neutralization of harmful pathogens without introducing elevated levels of ozone, carbon dioxide, volatile organic compounds (VOCs) or other dangerous compounds.

Independent Testing Shows that GPS Technology Is Highly Effective at Neutralizing SARS-CoV-2 and Other Pathogens

GPS's NPBI technology is unique – and it works. In new surface tests conducted in March by independent laboratory Innovative Bioanalysis, GPS's NPBI technology created an environment that enabled the **surface neutralization of up to 98.5% of SARS-CoV-2 pathogens in 30 minutes and up to 99.9% of SARS-CoV-2 pathogens in 60 minutes**. In tests of NPBI technology against **aerosolized SARS-CoV-2**, GPS's products were found to be similarly effective. These tests also showed that systems with GPS's NPBI technology neutralized harmful pathogens **nearly 3X faster** than in environments that lacked ionization technology.

Independent, Real World Testing Shows that GPS Technology Is Safe and Effective

Rigorous, independent, modern lab tests and measurements on real-world installations demonstrate that GPS's NPBI technology – unlike other ionization systems – does not increase ozone, carbon dioxide, VOCs, nitrogen dioxide or fine particles. Recent independent testing by Intertek Laboratories confirmed that GPS's NPBI technology does not increase VOCs. All of our independent and real-world testing show that, when installed and operated correctly, GPS systems significantly reduce the amount of harmful pollutants in the air to levels much lower than typically found in outside air in many areas. After being installed at a hospital in Houston, recorded levels of VOCs were reduced by approximately two thirds. After first being installed by Cone Health at Wesley Long Hospital in Greensboro, NC, GPS systems were found to be effective almost immediately and have been applied to all of the hospital's air handling units (AHU) installed since, including the AHUs that service the operating rooms and the newly installed AHUs at the facility where they treat their COVID-19 patients.

GPS Is the Only Brand to Earn UL's Stringent Zero Emissions Certification for All of Its Products

GPS is the only clean air technology brand to earn the UL 2998 "zero ozone" certification across its entire product line. This certification meets the UL qualification standard for ozone-free emissions and is compliant with ASHRAE standards. In addition, NPBI is the only technology provider in its category to pass the RTCA DO-160 standard for aircraft.



GPS's Air Cleaning Technology Is Used in Thousands of the Most Sensitive, Closely Monitored Locations

GPS technology is installed and trusted to help clean the air in more than 250,000 locations around the world. These include highly sensitive, high traffic and carefully monitored environments, including: schools and universities, hospitals, airports, banks, professional sports arenas and stadiums, office buildings and research facilities, many of which test their indoor air quality on a regular basis to ensure compliance with strict standards for health and safety.

