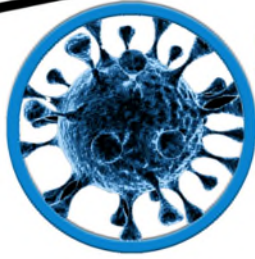


**VERIFIED**



**Phenomenal Aire**  
Cold Plasma Generator Technology

**COVID-19**

SARS-CoV-2

**99.40% Reduction**

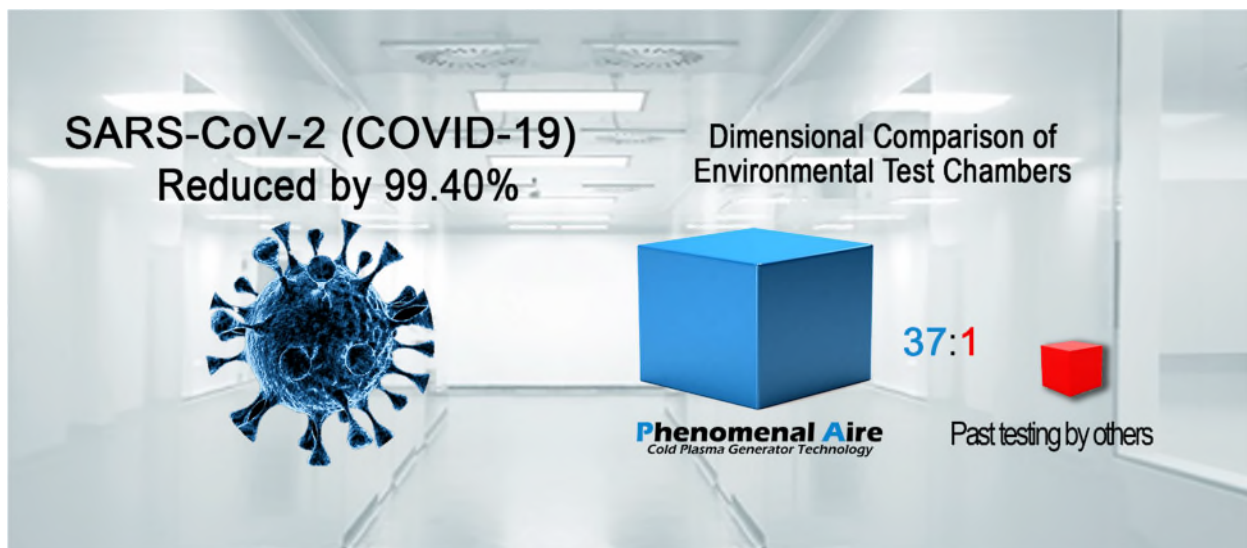
Testing Date: 07/22/2020

Top Product Innovations' advanced indoor air quality technology set to contribute to the global fight against SARS-CoV-2 (COVID-19).

Release Date: 08/31/2020

CHARLOTTE, NC--- Top Product Innovations Inc., a leading provider in Indoor Air Quality (IAQ) technology announced today that third party ionization testing results validated its technology's ability to effectively deactivate SARS-CoV-2 (COVID-19) with a 99.40% reduction. The bipolar ionization technology known as a Cold Plasma Generator (CPG) is powered by Needlepoint Clusters™.

Independent testing conducted by Innovative Bioanalysis, (*BSL-3 Laboratory*), **utilized a testing chamber 37 times greater** than cited in previously published tests. The testing environment was increased in size to better emulate environmental conditions of heating ventilation and air conditioning systems (HVAC) that are found in both residential and commercial applications. The results for the 60-minute test verified that 99.9% of the virus was inactivated at 60 minutes, 99.4% at 45 minutes, and 82.3% at 30 minutes.



Note: To emulate actual HVAC operating conditions, Phenomenal Aire's ion output was regulated, and the size of the environmental chamber substantially increased. The test was implemented using ion production rates at 60% less than previous tests in a space 37 times greater than testing performed by "others".

## About the technology

The technology is designed for use in both residential and commercial HVAC applications, and can be used in conjunction with mini-split or VRF ductless units.

Using its advanced Needlepoint Clusters™, Phenomenal Aire cleans indoor air through a process known as ionization. During the ionization process, a high concentration (billions) of positive and negative ions are generated, attaching to particles traveling in the HVAC system's airstream. As more particles are attracted and attach to one another, they grow larger, making them easier to eliminate from the air with particulate filtration.

When the charged ions encounter a harmful microorganism, such as SARS-CoV-2, they render it ineffective by adding an electron or pulling an electron from the virus.

Phenomenal Aire Cold Plasma Generator technology cleans air safely and produces no harmful byproducts. The technology is tested and reviewed by independent agencies such as Underwriters Laboratory, which has verified Phenomenal Aire produces no detectable ozone.

*"There is no single solution that will bring an end to the current pandemic. Defeating COVID-19 and restoring human health globally will require a combination of science, technology, and modified behavior. Today our company is proud to announce that our advanced Indoor Air Quality (IAQ) technology, Phenomenal Aire™, has been validated to effectively inactivate SARS-CoV-2. We look forward to our technology playing a contributing role in the fight against COVID-19 by working to help create safe, healthy, indoor air in commercial and residential buildings."*

**-Alan Rosenberg**  
President, Top Product Innovations Inc.

## About the company

Top Product Innovations Inc is headquartered out of Charlotte, North Carolina. The company is dedicated to advancing technologies that hold the potential to improve health and change lives. The company's flagship product Phenomenal Aire is advanced IAQ technology designed for use in both residential and commercial buildings.

## Contact

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**\*DISCLAIMER:** Top Product Innovations (TPI) products are tested in laboratory settings and multiple data points are utilized to validate statements of performance. Because users' environmental conditions may vary considerably, users should evaluate their individual application of TPI products under those conditions to assess the technology's potential benefits.

The use of any TPI product does not guarantee against the transmission of a specific pathogen, nor is use of a TPI product intended to take the place of reasonable precautions to prevent the transmission of pathogens. It is important to comply with all applicable public health laws and guidelines issued by federal, state, and local governments and health authorities as well as official guidance published by the Centers for Disease Control and Prevention (CDC) (<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>), including but not limited to social distancing, hand hygiene, cough etiquette, and the use of face masks.

**Top Product Innovations Inc. PO Box 3118 Indian Trail, NC 28079**