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Novaerus' air disinfectant device effectively reduces coronavirus surrogate

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30 independent agencies, including NASA and hospitals use the portable air disinfection device which runs on low energy consumption 30 independent agencies, including NASA and hospitals use the portable air disinfection device which runs on low energy consumption



There is mounting research to suggest that clean, disinfected air plays a vital role in preventing the spread of SARS-CoV-2, the virus causing COVID -19. While respiratory droplets are considered the primary transmission route, aerosols are being considered by many health authorities as a possible mode of infection transmission. This advocates that viral particles can remain suspended in the air for long periods and can be inhaled.

To combat that, Novaerus - an Irish company that manufactures and sells patented medical- grade, clean air solutions, has announced successful independent test results for the Defend 1050. The portable air disinfection device has shown effective results at reducing MS2 Bacteriophage, a surrogate for SARS-CoV-2 (COVID-19), by 99.99% in 15 minutes.

The Defend 1050 combines rapid air disinfection and purification into one safe and portable device. Designed for continuous cleaning of the air in large spaces and rapid remediation in situations with a high risk of infection, the device uses Novaerus patented ultra-low energy plasma technology combined with a triple-stage filtration system from Camfil. As Novaerus plasma is a non-selective, rapid killing technology, it offers a unique and safe solution to kill airborne viruses 24/7, reducing the risk of disease and infectious outbreaks like COVID-19, Influenza, Tuberculosis, Measles, MRSA (Superbug), Norovirus, C-Difficile, Acinetobacter, Aspergillus Niger, etc.

Since 2009, Novaerus has been researching and developing plasma technology that is unmatched in its ability to safely terminate airborne pathogens that lead to infection in populated indoor spaces. To bring this technology into India, Trivector Biomed LLP has been a partner to Novaerus since 2016.

Mr. Dilip Patil, Director of Trivector Biomed LLP said, “Novaerus, specializes in non-chemical air disinfection using patented ultra-low energy plasma devices that has achieved a remarkable feat. The new Defend 1050 is a portable, easy to use device ideal for rapid disinfection and purification of the air in large spaces and high-risk situations such as operating theatres, ICUs, IVF labs, emergency and waiting rooms, schools, offices and construction zones. Our aim is to make this product available at a low cost or even put it out on rent in order to help maximum people in India.”

The development of Novaerus has been supported by Enterprise Ireland through several support programs and market development activities.