

OZONE GENERATOR – COST EFFECTIVE AIR & SURFACE DISINFECTION

The Technology

At the start of the COVID-19 pandemic, researchers at NWU looked towards appropriating existing technologies towards solutions for COVID-19. A patent filed several years ago, namely method for producing ozone, was one such technology. The team designed an updated ozone generator for use as a rapid and low cost disinfection solution. The ozone generator can also be applied to treat water and fresh produce. For now the attention is on disinfection of areas and surfaces.

The new technology combines internet of things capable sensors with the generation technology to create a smart sensing product able to control the amount of ozone generated and deployed in a specific areas.

Market Opportunity

This ozone generation technology combined with the smart sensing functionality can be the solution for long-term cost effective disinfection for all industries. It is well known that Ozone kills all viruses, bacteria's and fungi's. Additional to the air treatment possibilities, this technology can also be used for water treatment and fresh produce applications.

Benefits

- IOT enabled - allows for remote control and monitoring via a mobile app.
- Smart sensing - allows for automatic sensing and control of the generator to ensure adequate levels of ozone is deployed.
- Unique components allow for a low cost high yield solution.

Project status

Currently testing in a real operating environment.



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