ReSPR™ SELF TECHNOLOGIES

Technology From Space To Protect You Here, On Earth

- Ultra light, miniature and wearable
- Silent, fanless, filterless, maintenance-free
- Propels cleaner, fresher air into your breathing zone
- Out-performs bulky and inefficient competitor units
- Solid platinum permanent emitter and gold plated stainless steel collectors

The Technology

Unlike other personal ionizers which attract particles near or to the respiratory system, the SeLF proprietary technology repels particles away and creates an exclusion zone of about 1/2 m3 around the head of the person wearing the SeLF.

The SeLF generates a powerful ionic wind, creating a shield which prevents particles from entering the breathing space as opposed to trying to treat the air around the individual, which is a losing battle.

One key difference is the power behind the SeLF. The voltage produced is approximately 20,000V, compared to a maximum of 3000V for other products in the market.

Effective against a multitude of viruses, including enveloped viruses like **Coronavirus (SARS-nCov)**

NASA Special Edition

Benefits

Creates an exclusion zone around the head

Repels particles and allergens away

24-30 hours battery life

Rechargeable with any USB charger

Maintenance-free and wearable

Specifications

SeLF

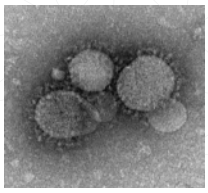
electrical	1 rechargeable battery (USB)	
mechanical	Battery ife 24-30 hours operating time	
dimensions	3.4”H x 42.9”W x 1”D	8.7cm L x 7.5cm W x 2.5cm D
weight	1.5 oz	43 grams
max temp		65° C

ReSPR NCC vs SARS-CoV2

ReSPR NCC technology uses nano-technologies and a very specific UV bulb to generate friendly oxidants through an advanced photo-catalytic process. These friendly oxidants have been shown to substantially reduce microbial populations and

Severe Accute Respiratory Syndrom Corona Virus - explained

The virus SARS-CoV2 is a positive and single stranded RNA virus belonging to a family of enveloped coronaviruses. Its genome is about 29.7kb, which is one of the largest among RNA viruses. The SARS virus has 13 known genes and 14 known proteins. SARS-Coronavirus follows the replication strategy typical of the Coronavirus genus.

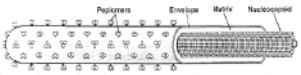


SARS-CoV2 particles as seen by negative stain electron microscopy. The morphology of the SARS coronavirus is characteristic of the coronavirus family as a whole. These viruses have large pleomorphic spherical particles with bulbous surface projections that form a corona around particles.

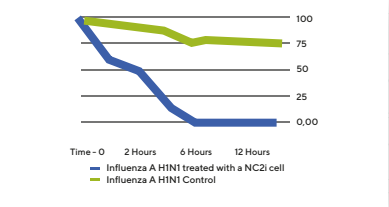
The internal component of the shell is a single-stranded helical ribonucleoprotein. There are also long surface projections that protrude from the lipid envelope. The size of these particles is in the 80–90 nm range.

transmission, such as protective clothing, isolation, environmental cleaning and disinfection, hand washing etc. All of these processes are required in the event of an isolated infection or outbreak.

As the NCC-rich air reaches interior surfaces, it continues to work, assisting in the maintenance of cleaning programs long after cleaners and disinfectants have evaporated. The same processes go to work inside ducts, on tables and counters, bathroom tiles, doorknobs, and almost every surface you can touch, helping to insure and maintain a more thorough cleaning regimen.



SARS-CoV2 is an enveloped virus and ReSPR NCC technology has been shown to be effective against enveloped viruses (Inactivation of Influenza A H1N1 using NCC - Microchem Laboratory Texas – January 2018). It is important to stress that NCC is not intended as a substitute for cleaning or removing dirt, debris or other physical sources of contamination).



Infection Prevention - Surface disinfection

The main source of infection is contact with body fluids from infected people or inanimate objects that have been exposed to contaminated body fluid. Therefore there are a number of interventions that are required to help control

ReSPR NCC was tested against Influenza A virus on inanimate surfaces and was found to inactivate 100% of the exposed viruses.(Influenza A is an enveloped virus)

*Scientific tests have demonstrated the use of ReSPR surface and air purifiers substantially reduce microbial populations on surfaces. These products are not intended to diagnose, treat, or cure any disease.

Based on research by

NASA

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