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## **SARS-CoV-2 Neutralization by REME HALO PHI Cell Technology**

Zeco Aircon Limited, formed in 1989, is a leading Indian manufacturer of air management systems. Along with central air conditioning, Zeco has the widest range of indoor air quality technologies & products on a global platform. Zeco set standard in terms of innovation, reliability and sustainability. Our vision is to meet global sustainability goals and to maintain ecological balance. We are continuously investing in some of the finest minds of the country and scientists across the globe, to upgrade products and technology to meet demands of the changing environmental conditions.

RGF Environmental group USA, incorporated in 1985 is a world leader in providing air purification system across the globe. RGF owns numerous patents, trademarks and global awards on air purification technologies.

Zeco in collaboration with RGF environmental group USA has fought pandemics like H1N1 commonly known as swine flu, bird flu, SARS and now we have come together with our latest test results highlighting how REME – PHI technology is capable of neutralizing SARS-CoV-2.

### **Technology Overview**

REME HALO with PHI Cell in-duct purifier utilizes Reflective Electro Magnetic Energy (REME) technology (a proprietary technology developed by RGF) that produces Ionized Hydrogen Peroxide molecules which are distributed through the air handler, and associated duct system and into the conditioned living space to reduce microbial, particulate and gaseous contaminants.

REME HALO PHI technology has been globally proven to neutralize deadly Virus such as SARS Cov1 ("protein jacketed"), H1N1, Bird flu & is being used by millions of customers in over 65 countries. With the mission to get world back to work, In December 2019 we initiated discussions with laboratories capable of handling viral cultures.

The objective of the study and test performed in laboratory was to evaluate efficacy of REME HALO PHI technology against SARV-CoV 2 .

It is very pertinent to note here that many prominent organizations & industry stalwarts had already concluded that virus is transmitted via two mediums – Surface (life of virus may vary for different surfaces) and Air (via aerosols) that we breathe. Therefore, It was necessary to understand impact of REME HALO - PHI technology on Surface & Airstream decontamination.

The test was performed by one of the accredit bio-analysis laboratory in USA. Same was conducted in two phases. Phase 1 evaluated the neutralization of virus on static surfaces and phase 2 was evaluated via aerosol inside an enclosed chamber equipped with the REME HALO PHI Cell.

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Based on the conclusion, during phase 1, overall Log 10 reduction of 2.64 was observed in test environment. This shares great contribution to deactivation of virus and statement could be made- REME HALO PHI technology has the ability to negatively impact the viral activity of SARS-COV-2.

However during phase II - the air study, test was performed at different distances up to 7ft. The overall Log 10 reduction was > 3.35 at all distances. Within one hour, reduction of 99.63% was noted as compared to that in controlled (without REME HALO – PHI cell) environment.

The REME HALO PHI cell technology proved to efficiently deactivate the SARS Cov-2 Virus at all distances.

Dr. James Marsden, Executive Director, Science & Technology, RGF Environmental Group - “I observed that the reduction in the air study were identical at each of the test sites which supports the concept of an equilibrium of Ionized hydrogen Peroxide molecules created by the REME HALO with PHI Cell. The size of the chamber used in the study was 160 Sq.ft. It has application to real-world environments and equilibrium was established using a single REME HALO PHI Cell.”

The study also showed that the effectiveness of the treatment begins soon after it is activated. Assuming the unit is turned on prior to use, allowing for the establishment of equilibrium, it will be immediately impactful.

With Best Regards



Ravi Singhal

Managing Director

Zeco Aircon Ltd

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