

## **A coronavirus air filtration system based technology used in aircraft cabins.**

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### **INTRODUCTION**

The BlueSky®Defender™ filtration system is a ducted system, similar to what's used in aircraft cabins and hospital operating rooms. It creates a top-to-bottom laminar airflow that has proven to be very effective in removing potentially deadly aerosols from many interior spaces.

- Ducted coronavirus air filtration system
- There are many different air-cleaning machines, air filtration systems and air purifiers on the market. Some use ultraviolet light, others use electrostatic filters. Most air filtration systems and purifiers rely on a combination of these technologies.
- What these in-room machines have in common is they are stand-alone in-room machines that are not ducted. They don't create a laminar downflow of clean air. All these technologies clean air through the principle of dilution. Being in a space with such a machine means breathing in air that is always partially contaminated.
- Air exchange through laminar downflow

The BlueSky®Defender™ coronavirus air filtration system creates a top-to-bottom laminar airflow that constantly removes aerosols emitted by people present in an indoor space. HEPA-filtered and UVC disinfected, air moves down continuously from vents above, while potentially contaminated air is sucked down-and-out through vents below, preventing aerosols from lingering and spreading

- Safe, no-touch, filter change-out module
- A significant benefit of the BlueSky®Defender™ is that, unlike all other machines, the used (contaminated) filters in a BlueSky® machine are never touched by local service personnel. They are safely sealed inside the SmartBox® module.

### **KEYWORDS:**

1. Coronavirus 2. Air cleaner 3. Aircraft 4. Top-to-bottom laminar airflow 5. HEPA 6. UV-C

### **BIOGRAPHY:**

Dr. Michael Seitz is the founder and CEO of BlueSky Global, based in Houston, TX. He is the inventor of the SmartBox™ technology and other associated patents for the BlueSky Air Cleaner. Dr. Seitz has his PhD from the University of the Witwatersrand in Johannesburg, South Africa; he holds 21 patents in the US, Europe, and China, including those in thermal spray technology and dust collection.