



# AIR KNIGHT® TECHNOLOGY

## Dust Free® tested its PCO and Ionization technology against SARS-COV-2 (Covid-19), MS-2 Bacteriophage, and Staphylococcus Epidermidis in three different lab settings and test results have shown the ability to successfully reduce all three pathogens.

Dust Free®'s ASHRAE 52.2 tunnel/chamber test utilized in the MS-2 Phage and Staph is a rigorous test protocol. Unlike the Dust Free® test protocol, the majority of duct mounted purifiers sold through the HVAC distribution channel are tested in a more controlled lab setting, in a small box, with little to no air movement other than a fan positioned to blow on the device being tested. The pathogen is put on a stainless steel coupon and the test is run for 24 hours. This protocol does not accurately reflect how the device will perform in a typical ducted HVAC system. For this reason, most manufacturers do not disclose their test protocol.

Dust Free®'s test protocol is much more reflective of what can be expected in a typical ducted system. To our knowledge Dust Free® is the only manufacturer of duct mounted air purifiers that has tested to this rigorous protocol.



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### Test results show the **Air Knight® Technology to be 99.7% effective in the reduction of the SARS-COVID-2 virus within 20 minutes.**

Air Knight® proprietary air purification technology was tested for efficacy at reducing SARS-COV-2 by the University of Milan in Milan, Italy on September 11, 2020. The test was conducted within the Department of Biomedical and Clinical Sciences and supervised by Davide Mileto, a Microbiologist with the University of Milan Luigi Sacco Hospital.



### MS-2 Phage has been found to be 8-10 times more difficult to kill than COVID-19 by the National Center for Biotechnology Information. **The Dust Free® air purification technology showed a 15% reduction of the airborne pathogen every half hour.**

MS-2 Bacteriophage (MS-2 Phage) testing was conducted at LMS Labs in Minneapolis, Minnesota. The pathogen was aerosolized into a 2000 cubic foot chamber connected to an ASHRAE 52.2 tunnel with the Dust Free® technology installed in the duct outside the chamber.



### Staphylococcus Epidermidis has been identified as one of the most difficult bacteria to kill by National Center for Biotechnology Information. **The Dust Free® air purification technology showed a 15% reduction of the airborne pathogen every half hour.**

Staphylococcus Epidermidis testing was conducted at Airmid Labs in Dublin, Ireland. The pathogen was aerosolized into a 2000 cubic foot chamber connected to an ASHRAE 52.2 tunnel with the Dust Free® technology installed in the duct outside the chamber.

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DISCLAIMER: The summary and any comments herein are based on the results from an independent laboratory study performed under controlled conditions and are not in any way medical claims. The product(s) and technologies described are not medical devices and are not intended to diagnose, treat, cure, or prevent any disease, virus or illness.