

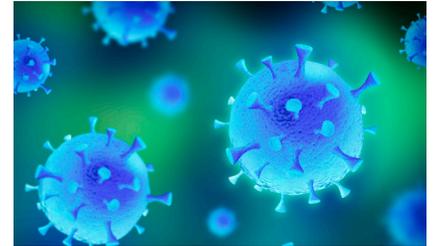
# Coronavirus Fact Sheet

## Keys to Reducing Airborne Transmission



### What is Coronavirus?

COVID-19 is caused by a coronavirus, named SARS-CoV-2 or Severe Acute Respiratory Syndrome Coronavirus-2. Coronaviruses (CoV) are a family of enveloped virus that was first discovered in the 1960s. Coronaviruses are most commonly found in animals, some strains of coronavirus, including SARS-CoV-2, are known to be capable of transmission from animals to humans.



### The Facts on Airborne Transmission

- The Centers for Disease Control and Prevention (CDC) has confirmed SARS-CoV-2, like all coronaviruses, can be spread through the air via coughing or sneezing, and via contact with an infected person.
- CDC believes infections occur mainly through exposure to respiratory droplets when a person is in close contact with someone who has COVID-19.
- This kind of spread is referred to as airborne transmission and is an established means that infections like tuberculosis, measles, and chicken pox are spread.
- Some infections can be spread by exposure to virus in small droplets and particles that can linger in the air for minutes to hours. These viral particles may be able to infect people who are further than six feet away from the person who is infected or after that person has left the space.
- There is evidence that under certain conditions, people with COVID-19 seem to have infected others who were more than six feet away. These transmissions occurred within enclosed spaces that had inadequate ventilation; sometimes the infected person was breathing heavily, for example while singing or exercising.<sup>1</sup>

### Infection Control Measures

- Hand hygiene: Wash hands often with soap and water for at least 20 seconds. Use alcohol-based hand sanitizer when soap and water are not available. Avoid touching your eyes, nose and mouth with unwashed hands.
- Respiratory hygiene and cough etiquette: Cover your nose and mouth with a tissue when you cough or sneeze, then throw the tissue in the trash.
- Avoid contact with infected individuals, as possible.
- Clean and disinfect surfaces and objects with an EPA-registered disinfectant approved for use against SARS-CoV-2.
- The CDC recommends that individuals confirmed or suspected to have COVID-19 should wear a mask, and healthcare workers should use eye protection. Both contact and airborne precautions should be implemented in addition to standard precautions.
- Ventilation and filtration provided by heating, ventilating, and air-conditioning (HVAC) systems can reduce the airborne concentration of the virus that causes COVID-19 (SARS-CoV-2), which can reduce the risk of transmission through the air.<sup>2</sup>

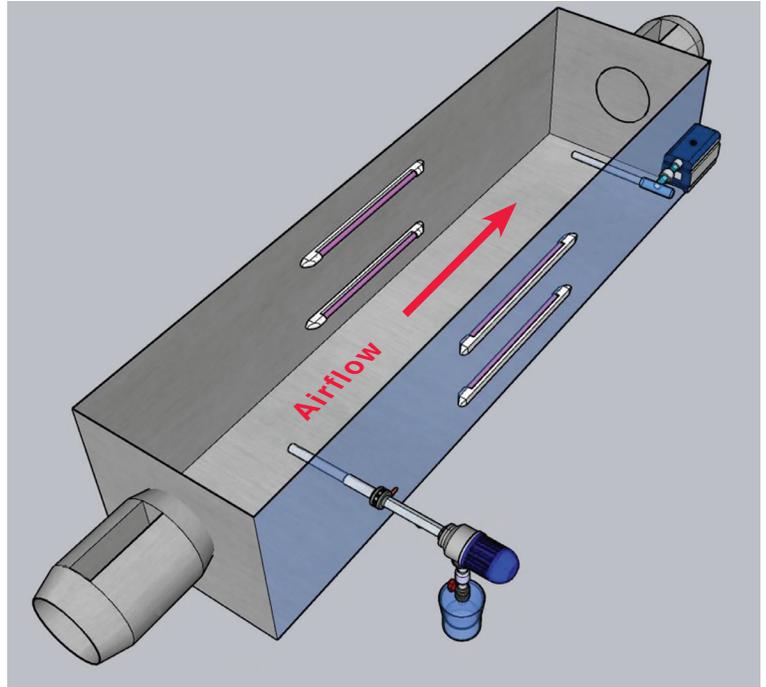
<sup>1</sup> <https://www.cdc.gov/coronavirus/2019-ncov/more/scientific-brief-sars-cov-2.html>

<sup>2</sup> <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/disinfecting-your-home.html>

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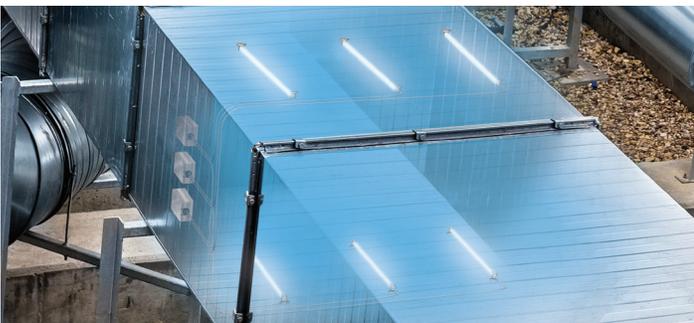
## UVDI V-MAX™ Disinfection Systems | Proven 99.99% Inactivation of Airborne SARS-CoV-2

- 99.99% inactivation in a single pass at an airflow rate of 500 feet per minute (0.24 seconds exposure time).
- Given emerging coronavirus variants share the same RNA structure as SARS-CoV-2, these independently proven laboratory results provide scientific confirmation of the UVDI V-MAX™ effectiveness against newer strains.
- Testing conducted in a modified HVAC test duct at certified BioSafety Level 3 (BSL-3) laboratory Innovative BioAnalysis.
- Testing results verify the accuracy of UVDI's proprietary product software which calculates custom product specifications for targeted levels of effectiveness. The software was used to predict and set the current testing conditions.
- Designated an effective mitigation strategy by the ASHRAE Epidemic Task Force.



To replicate conditions in a typical HVAC duct, UVDI's V-MAX™ 254 nm UV-C lamps were arranged in a parallel configuration.

## V-MAX™ Technology Available in Two Customized Formats



### V-MAX™ for In-Duct Air Disinfection Systems

- Designed for duct-mounting parallel to the airstream, providing optimum UV exposure.
- Prewired lamp connection reduces installation time.



### V-MAX™ for Air Handling Unit Disinfection Systems

- Easy to install in both existing and new equipment.
- Scalable design to fit any plenum size.



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