# COVID-19 **Risks for Indoor Air**



Air & Liquid Filtration | Cleanrooms | HVAC Equipment



### **COVID-19 SPREADS VIA DROPLETS TRANSMITTED** FROM AN INFECTED PERSON TO ANOTHER PERSON

Droplets containing COVID-19 will either be heavy enough to fall to the ground...

... or may be light enough to aerosolize and remain suspended in-air for hours.

# HOW PEOPLE GET INFECTED

To become infected, one must take in about 1,000 virus cells (according to scientists who studied SARS). To put this in perspective:





Coughing expels 10 million virus particles at a time.



Singing or yelling Breathing & expels 100,000's talking expel to millions of virus far fewer: particles at a time. 100's per breath.



Businesses where customers or employees go in & out a lot each day are at risk for COVID-19. The more people that go in and out of a space, the better chance an infected person will walk through.

### People become infected when

they either: breathe in a low concentration of virus particles over a longer period of time (sitting at desks, in conference rooms, or lobbies/waiting rooms)

#### OR

breathe in a high concentration of virus cells quickly (large gatherings of people singing, cheering, yelling, arguing, laughing)

### The possibility that covid can aerosolize is what business owners should be concerned about, because social distancing won't help.

When COVID-19 aerosolizes, it can remain in the air long after an infected person has left the space.



From there, it can be sucked into your building's HVAC system and spread through your facility, infecting many others.

# ENTILATION IS KEY TO CONTROLLING **AIRBORNE VIRUSES INDOORS**

Ideally, you clean the air inside your business so viruses are removed before people inhale them.

**BUT HOW?** 

# COVID-19 Risks for Indoor Air How to Clean the Air in Your Unique Space

# FREE



Introduce more fresh air into your space. Open windows, keep doors open, create cross breezes.



Keep the air flow corridors clear. Don't set up sitting areas or workstations under or near inbound air vents.



Reorient the inbound air direction. Down is better than across or up.



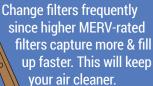
**RICED OPTIONS** 

GHER



Upgrade HVAC filters to ASHRAE's recommended MERV 13 rating in order to capture more & smaller particles, so COVID-19 has less to attach to. Make sure to ask about low-pressure / high MERV filters if your HVAC system requires them. (Not all HVAC units can handle MERV 13 – an expert can tell you.)





#### **IN-ROOM PORTABLE AIR PURIFIERS**

- Choose a unit with a HEPA filter, which captures 99.97% of microbes, including COVID virus
- Some units have the added protection of UV-C light to sterilize any remaining microbes that aren't caught by the filter
- You want 6 12 air changes per hour. In other words, every five to ten minutes dirty air is replaced with clean air, which will give everyone greater peace of mind

*Costs are still affordable for small businesses. Good units start at about \$1,000.* 



### ADD ULTRAVIOLET GERMICIDAL IRRADIATION

- A disinfection method that uses short-wavelength ultraviolet light (ultraviolet C or UV-C) to kill or inactivate microorganisms by disrupting their DNA
- Found in some portable air purifiers with UV-C, or sold as in-duct disinfecting lights





## **RP FEDDER HAS BEEN CLEANING THE AIR FOR MORE**

**THAN 60 YEARS** We can help you determine the quickest, best way to create the safest air for your business.



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