

INDOOR AIR QUALITY DURING COVID-19

Proper ventilation and filtration in your HVAC system are the first line of defense when it comes to preventing the spread of airborne diseases – and it's also the industry standard, meaning you've been practicing it since before the initial discovery of COVID-19. In these unprecedented times, we've identified three additional methods to consider implementing in your buildings' HVAC system to protect your air quality and mitigate potential COVID-19 exposure.

1 UV-C

This ASHRAE-proven method of controlling airborne infection in your building can be deployed in two ways:

1. On-the-fly-kill and AHU lamp location

Moving UV-C lamps from 55-degree temperatures (typical of downstream) to 75-degree (typical of upstream) can increase a UV-C lamp's output by 40% without having to increase UV-C intensity by adding more lamps.



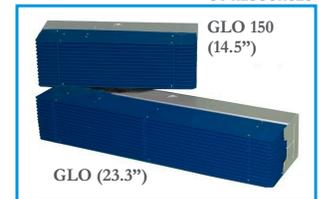
Coil Irradiation
(lamps spaced at 36" centers)

Airstream Disinfection
(lamps spaced at 4" centers)

2. GLO and GLO 150 Upper-Room Germicidal Fixtures

These wall-mounted units provide the industry's greatest amount of Ultraviolet-C energy fluence to kill airborne viruses and bacteria, exceeding the performance guidelines from the CDC for hospital and healthcare applications and making them the best choice for airborne infection mitigation.

UVR
UV RESOURCES



2 BIPOLAR IONIZATION

Effective bipolar ionization technology ensures ions get into spaces where they successfully clean the breathing zone and surfaces. This technology is proven to be highly effective in both laboratory and situ testing against MS2 Bacteriophage, Staph, MRSA, and C. difficile, showing **significant reduction** of bacteria and viruses. Bipolar ionization manufacturers are currently working to further validate effectiveness against the novel COVID-19 virus.



Reduction in
Staff & MRSA
Source: ATL Labs, 2016



Reduction in
MS2 Bacteriophage
Source: ATL Labs, 2016



Reduction in
C. Difficile Over 18 hours
Source: Microchem Laboratory, 2017

3 HUMIDITY CONTROL

Typically, Texas buildings start to see sinking relative humidity levels as the fall begins. Plan ahead for the upcoming flu season and potential second wave of COVID-19 by taking measures to add humidification to your building today.

It is vital to maintain relative **humidity levels between 40% and 60%** to limit the range where bacteria and viruses thrive. Prevent the spread of airborne diseases and ensure that the healthy indoor parameter is met with a correctly engineered DH system in your building.



GS Series
Condensing
High-Efficiency
Humidifier



RS Series
High Precision
Electric Steam
Humidification



US
Series
Ultrasonic
Humidifier



Electric
Steam
Outdoor
Humidifier

WE'RE STILL HERE TO SERVE

We're still open for business, and although our new day-to-day might look a bit different, we've never been more resilient to help get the job done. Our manufacturer partners are still producing equipment and, since we have been categorized as an Essential Business by the state, our Service Group and Parts Specialists are still fully-functional.

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