

COVID-19 & HVAC Special Report

HVAC EXPERT SERIES

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Beyond Clean HVAC Expert Series:

COVID-19 & HVAC: SPECIAL REPORT

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It appears that recent research into the COVID-19 virus has narrowed to that of “transmission by droplet”. That being said, droplets include different types, with those of a larger diameter (micron-size) which, after expulsion from an infectious individual may drop to the ground or surface by gravity to be “cleaned” or “removed” through surface disinfection. Droplets also include those which, after expulsion from an infectious individual, may immediately evaporate (desiccate) and become airborne. These airborne droplet nuclei can remain suspended in the environment almost indefinitely (depending on size) and can travel great distances in search of a susceptible host to infect. Unfortunately, they can be circulated throughout buildings in the air distributed by its HVAC system. This is a perfect time to diligently inspect your facilities HVAC system to insure “fresh” outdoor ventilation airflows are in check, and that air-filters are in place and clean. Properly designed, installed, and maintained, your buildings HVAC system can act as a frontline of defense against the transmission and spread of airborne viruses and pathogens of concern, helping provide safer and healthier environments for its occupants.

Have more HVAC questions? Contact David at: dschurk@carrierwest.com

Beyond Clean HVAC Expert Biography:

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David Schurk is Strategic Account Manager-Healthcare for Carrier West, based out of Denver, CO. He is a Licensed Designer of Engineering Systems and has over 35-years of experience in the design and analysis of heating, ventilating, and air-conditioning systems for a variety of market sectors, with a special focus on healthcare facilities.

He is a LEED-AP and has been involved in the conception, design and selection of systems for over 10-projects achieving LEED certified status. He is also a Certified Energy Manager, a Certified Demand Side Manager, a Certified Water Efficiency Professional, a Certified Sustainable Facilities Professional, a Board Certified Indoor Air Quality Manager, and is Health Care Constructor Certified.

David is active in ASHE (Member and serving on the ASHE Editorial Advisory Board), ASHRAE (past Chapter President, current Member and serving on TC9.6), the American College of Healthcare Executives, the Colorado Association of Healthcare Engineers and Directors, the Houston Area Association for Hospital Engineering, the Texas Association of Healthcare Facilities Management, the California Society of Healthcare Engineers, the Association of Energy Engineers as well as several other industry associations.

He has also authored various technical articles for a number of industry trade magazines and is a featured presenter at regional and national industry events. He can be reached at dschurk@carrierwest.com or 303-921-2220

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