



## FREE WEBINAR

September 16th, 12pm-1pm PST

This webinar will help managers make their buildings safer through DIY ventilation improvements.

## Methods to Combat COVID in Assisted Care & Healthcare Facilities

### Why Healthcare and Assisted Living Facilities are At Risk

Social distancing is not a possibility for patients and staff who reside and operate in very close-quarters.

### Air Quality: The Most Common Risk Factor

HVAC systems are designed to maintain indoor air quality. **Not only does poor ventilation fail to prevent diseases from spreading, it can actively spread them through airborne means.** Though COVID-19 is not predominantly an airborne disease, a study conducted by Princeton University, the University of California-Los Angeles and the National Institutes of Health found that “viable virus could be detected in aerosols **up to 3 hours post-aerosolization.**”

When an infected person coughs or sneezes, the larger droplets fall rapidly however, smaller particles travel longer, and very small particles behave as aerosols. Aerosols remain airborne for hours and can be inhaled by people nearby or transferred through a building’s HVAC system.

### Keep Patients and Staff Safe

Our webinar will review the functionality HVAC systems, building ventilation codes, and the importance of incorporating pressurization zones into your virus mitigation strategy. We will also discuss new technologies to combat disease spread specifically in healthcare and assisted living-type settings, like air ionization and UV light treatment. A proper understanding of these factors will enhance your ability to keep patients and occupants safe.

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# Learning Objectives

1. Review the evidence of COVID-19 spread through ventilation systems and specific modes of transmission.
2. Understand the CDC recommendations to reduce disease transmission - specifically increasing ventilation to reduce contaminated air.
3. Understand the functionality of HVAC systems, outside air ventilation requirements, the importance of pressurization zones, and best design practices.
4. Recognize the importance of making sure HVAC system filters are inspected, exhaust systems are operational, and outside air sources are maximized.
5. Identify the process of augmenting HVAC systems with ionization and ultraviolet (UV) technology, and how to implement them.



## Presenters



**KARIM ALLANA,**  
**PE, RRC, RWC**

CEO | Senior Principal

Karim P. Allana is the CEO and Founding Principal of Allana Buick & Bers, Inc. (ABB), a leading Architectural-Engineering firm specializing in building envelope and sustainable construction for new and rehabilitation projects. Mr. Allana has been in the A/E and construction fields for 35+ years, with a concentration on forensic analysis, design, and sustainable construction of roofing, waterproofing and building envelope systems. He has also acted as a consultant and expert witness in 500+ construction defect cases.

Mr. Allana earned a B.S. in Civil Engineering from Santa Clara University and is a licensed professional engineer in California, Hawaii, North Carolina, Nevada and Washington. He is a Registered Roof Consultant (RRC) and Registered Waterproofing Consultant (RWC) through IIBEC, Inc. He is a frequent speaker and presenter at professional forums.



**JOHN WILLIAMS**

NC Division Manager  
Principal

John Williams is a Division Manager and Principal at Allana Buick & Bers (ABB), responsible for the operations and oversight of all the North Carolina Division's projects. He oversees project planning, production, team and client management. ABB's projects focus on property condition assessments, due diligence investigations, peer review, construction administration, mechanical capital planning and replacement programs, assessments of building mechanical system operations, and energy projects.

Mr. Williams earned a B.S. in Electrical Engineering from United States Military Academy, West Point, New York and also received a MBA from Wake Forest University in Winston-Salem, North Carolina. He is a member of the American Society of Heating, Refrigerating and Air Conditioning Engineering (ASHRAE).

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