



# HEALTHY BUILDINGS: HOSPITALITY

The hospitality industry has undoubtedly been one of the hardest hit by the COVID-19 pandemic. Now, as the industry looks to reopen and rebound from historically low occupancy rates, the future depends on effective implementation of evidence-based protocols – including those that address airborne transmission.

By focusing on healthy building strategies and creating healthy indoor environments in hotels, this beleaguered industry can unlock enormous potential – to not only ensure the health and safety of guests and staff in the short term, but also to enhance the guest experience, wellness as a differentiator and brand loyalty for years to come.

## HOTEL PRIORITIES



## THE SCIENCE OF HEALTHY HOTELS

Creating a healthy building through engineering controls in spaces is a key component of combating COVID-19 and reopening the industry. But research has shown the benefits go beyond infection control. Factors including CO<sub>2</sub> levels, lighting and noise were shown to significantly impact guest sleep and next-day concentration and cognitive performance. Moving forward, guests will expect more from their stay in terms of comfort and overall wellness.



## HEALTHY HOTELS IN ACTION

Healthy buildings focus on addressing foundational aspects of the indoor environment to positively impact the people inside. Dr. Joseph Allen and a multidisciplinary team of experts from the Healthy Buildings Program at the Harvard T.H. Chan School of Public Health have identified these key areas as “The 9 Foundations of a Healthy Building.” Based on the 9 Foundations, we’ve outlined specific strategies hotel owners and operators can take to make their building a healthy building.

 <h3>VENTILATION</h3> <p>Maximize outdoor air ventilation Monitor and control target ventilation</p>	 <h3>AIR QUALITY</h3> <p>Implement multipoint IAQ monitoring Incorporate advanced IAQ controls</p>	 <h3>THERMAL HEALTH</h3> <p>Design to appropriate comfort standard Advanced localized controls</p>	 <h3>FILTRATION</h3> <p>Filter air at MERV 13 or higher Implement advanced purification solutions</p>
 <h3>MOISTURE</h3> <p>Control to 40%-60% relative humidity</p>	 <h3>SAFETY AND SECURITY</h3> <p>Implement touchless access Execute advanced access solutions</p>	 <h3>NOISE</h3> <p>Design for minimum equipment background noise</p>	

## CARRIER HEALTHY BUILDINGS PROGRAM

As the inventors of modern air conditioning and a world leader in HVAC, refrigeration, and fire & security solutions, Carrier has a legacy of creating safe and comfortable buildings. Now we’re building on that legacy through the launch of our Healthy Buildings Program. Our experts have in-depth knowledge and experience in hospitality and a holistic suite of healthy building technologies and services to address the immediate pandemic concerns and long into the future.

## HEALTHY BUILDINGS ASSESSMENTS FOR HOSPITALITY

At Carrier, we understand that many of our hospitality customers are facing uncertainty with how to move forward in developing a healthy building strategy. Our experts are here to help – starting with assessments across various aspects of a hotel or property.

 <h3>SAFE START SERVICES</h3> <p>Ensure building is ready for occupancy Rigorous recommissioning of HVAC equipment Implement best practices (possibly remotely)</p>	 <h3>EMERGENCY ASSETS</h3> <p>HVAC equipment on demand to reopen quickly and safely Detailed site evaluations Ensure system is able to meet your new ventilation and IAQ requirements</p>	 <h3>IAQ ASSESSMENT</h3> <p>Test air quality Develop and implement upgrades for optimal filtration, ventilation, airflow, controls, etc. Develop corporate-wide IAQ engineering standards</p>	 <h3>WELLNESS ASSESSMENT</h3> <p>WELL building standard certification WELL performance testing</p>	 <h3>SECURITY ASSESSMENT</h3> <p>Provide security solutions and upgrades Contactless access management, body temp screening and video analytics Remote monitoring and diagnostics</p>
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## HEALTHY BUILDINGS SOLUTIONS FOR HOSPITALITY

Carrier offers a full suite of products and services designed to help create safe and healthy environments for hotel guests and staff. The following are just a few highlights of our offering.



### ADVANCED AIRSIDE SYSTEMS



FRESH AIR MANAGEMENT  
ENERGY MONITORING  
CO<sub>2</sub> LEVEL CONTROL

### AIR HANDLING UNITS



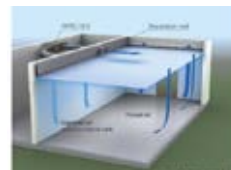
FRESH AIR MANAGEMENT  
HEPA FILTERS / CARBON FILTERS  
UV LIGHTS / BIPOLEAR IONIZATION

### ROOFTOPS



CARBON FILTERS  
BIPOLEAR IONIZATION  
CO<sub>2</sub> SENSORS

### STRETCH CEILING TECHNOLOGY



HIGH INDOOR AIR QUALITY AND HIGH ENERGY EFFICIENCY  
THERMAL AND ACOUSTIC COMFORT COMBINED  
WITH INFINITE CUSTOMIZATION

### ACTIVAIR HYBRID HYDRONIC AIR TERMINAL



LOW HEIGHT PROFILE  
MODULATING CAPACITY AND LOAD REACTIVITY  
HIGH VENTILATION CAPABILITIES

### AIR PURIFIERS



PORTABLE SOLUTIONS  
HEPA FILTERS / CARBON FILTERS  
UV LIGHTS / BIPOLEAR IONIZATION

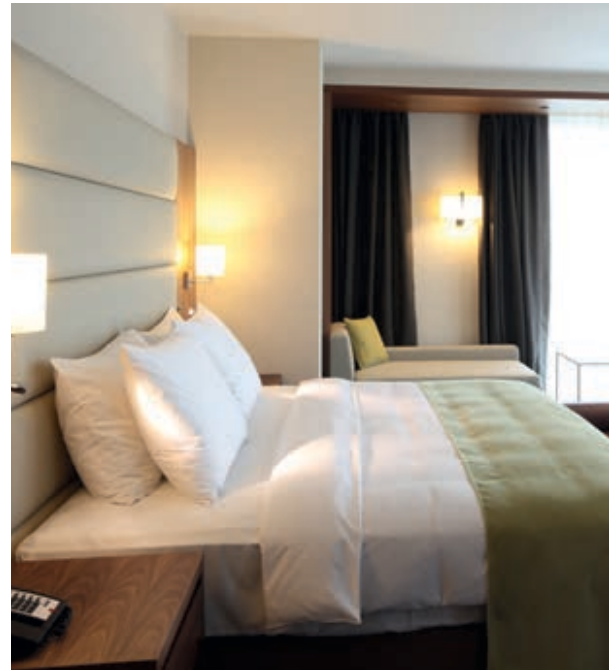

HEALTHY BUILDING SERVICES FOR HOSPITALITY



We will work with you to fully understand the needs of your business.


Our building protection services help to ensure high-quality air by keeping the building's HVAC system properly maintained.

Our BluEdge service platform is designed to meet your requirements and keep your equipment running efficiently.

### PREDICTIVE MAINTENANCE

- Remote connection through BMS manages IAQ and ventilation in line with best practices
- Make changes and fix issues remotely
- Optimize maintenance and operational costs
- 24 x 7 command center



### HVAC EUROPEAN CONNECTED SERVICES PORTAL


- Provide advanced remote analytics
- Optimize energy efficiency, equipment uptime, occupant comfort and operational productivity
- Actionable insights by different communication protocols
- Optimize autonomously or through a remote application

RETROFIT SPARE PART SOLUTIONS FOR HOSPITALITY



### INNOVATIVE TECHNOLOGIES

- M5 filters
- New filtering media technologies
- High filtration efficiency on PM2.5 particles



### ADD-ON RETROFIT ALTERNATIVES

- AHU-UVC add-on kits
- Carbon surface & F7 filtering technology options
- Add-ons are easy to install in the universal frames of existing AHUs
- Effective against viruses, bacteria, small particles and VOCs



### RANGE OF FILTRATION SOLUTIONS

- High-efficiency filtration solutions
- A large variety of air filters
- Solutions for our full product range (AHU, RTU, TFCU)
- More than 1300 references of air filters to cover all sizes / filtration needs

GET STARTED WITH AN EXPERT

From safe business reopening to ongoing enhancements to customer experiences, a healthier future starts indoors. Let's work together to unlock the potential of healthy hotels. Visit us at [carrier.com/healthybuildings](https://carrier.com/healthybuildings) to learn more about our Healthy Buildings Program and connect with one of our experts.



HEALTHYBUILDINGS