



# A HEALTHIER FUTURE STARTS INDOORS: HEALTHCARE

As the front lines of the COVID-19 pandemic, healthcare facilities have faced critical challenges in caring for larger numbers of patients while ensuring safety and minimizing spread of the disease. Throughout the U.S. and many countries, outbreaks of COVID-19 in hospitals continue to devastate patients and healthcare workers alike.

Against this backdrop, it's become clearer than ever that the need to minimize disease transmission impacts every aspect of the built environment. That's where healthy building strategies come in. By focusing on creating healthy indoor environments, today's healthcare facilities can help improve infection control in the short term, and enhance patient experiences and outcomes, staff productivity and building efficiency moving forward.

## HEALTHCARE PRIORITIES



## THE SCIENCE OF HEALTHY INDOOR ENVIRONMENTS

While the current urgency around healthy indoor environments in hospitals revolves largely around stopping the spread of COVID-19, research has shown the potential impact of healthy environments to be much greater.



### Heating, ventilating and air conditioning alone can:

- Enhance patients' recovery process
- Reduce length of hospital stay
- Lessen medical errors and infection rates
- Improve the indoor air quality (IAQ)
- Minimize hospital-acquired infections

Shajahan A, Culp C, Williamson B. 2018. Effects of Indoor Environmental Parameters Related to Building Heating, Ventilation and Air Conditioning Systems on Patients' Medical Outcomes: A Review of Scientific Research on Hospital Buildings. Indoor Air DOI: 10.1111/ina.12531



In addition, the [COGfx Study](#) has shown that healthy buildings can significantly improve cognitive function, while the [HEALTHfx Study](#) revealed the benefits of healthy buildings on societal health and climate. All in all, we're seeing that healthy buildings can impact the patient experience and the bottom line for healthcare facilities.



## 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 healthcare 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 HEALTHCARE

At Carrier, we understand that many of our healthcare 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 your facility.

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

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



### AIRSIDE TECHNOLOGIES



OPTICLEAN™ AIR SCRUBBER AND  
NEGATIVE AIR MACHINE



ACTIVE CHILLED BEAMS

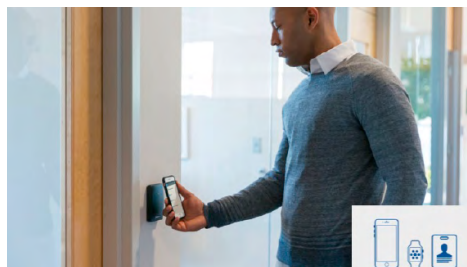


AGION®-COATED AIR-HANDLING UNIT

### TOUCHLESS ACCESS



READERS AND PHYSICAL CREDENTIALS



APP AND MOBILE CREDENTIALS



MYWAY™ BUILDING SERVICES  
MOBILE PLATFORM

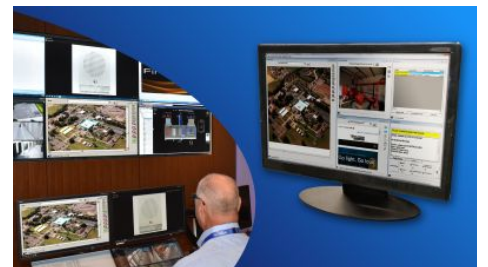
### FIRE SAFETY



SMARTCELL™ WIRELESS FIRE  
DETECTION



FIRECELL™ WIRELESS  
DOOR CONTROL



FIREWORKS® INCIDENT  
MANAGEMENT PLATFORM

## HEALTHY BUILDINGS SERVICES FOR HEALTHCARE

Healthy buildings are about more than design and solutions. Ongoing management and operation are essential to optimizing indoor environments for patient health and safety, staff productivity and building efficiency. Here are a few examples of Carrier remote services available to help.



### REMOTE AIRSIDE MANAGEMENT

- Manage IAQ and ventilation in line with best practices
- Make changes and fix issues remotely
- Optimize maintenance and operational costs
- 24x7 command center



### REMOTE ENERGY MANAGEMENT

- Provide advanced cloud-based analytics
- Optimize energy efficiency, equipment uptime, occupant comfort and operational productivity
- Actionable insights by CORTIX™ building IoT platform
- Optimize autonomously or through a mobile application



### REMOTE HVAC SERVICES

- Maximize performance and efficiency
- Increase uptime
- Improve budgeting and scheduling
- Fault detection and diagnostics



### GET STARTED WITH AN EXPERT

From improving infection control to helping facilitate faster healing, a healthier future starts indoors. Let's work together to safely unlock the full potential of healthy hospitals. 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

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Catalog No. 04-811-90034