



A HEALTHIER FUTURE STARTS HERE: COMMERCIAL BUILDINGS

The COVID-19 pandemic presents significant challenges for commercial buildings, as owners and operators look to protect occupants, control infection and enable the safe reopening of businesses. As we look to move forward, these challenges are increasing the focus on healthy building strategies for design, retrofit and operation, and shifting the view of commercial buildings beyond places to work and into powerful tools that drive human health and progress.

COMMERCIAL BUILDING PRIORITIES



THE SCIENCE OF HEALTHY COMMERCIAL BUILDINGS

While the current urgency around healthy indoor environments in commercial buildings revolves largely around stopping the spread of COVID-19, research has shown the potential impact of healthy environments to be much greater. Through the COGfx Study, research 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 bottom line for a business – from reducing energy waste and the related costs to increasing worker productivity.



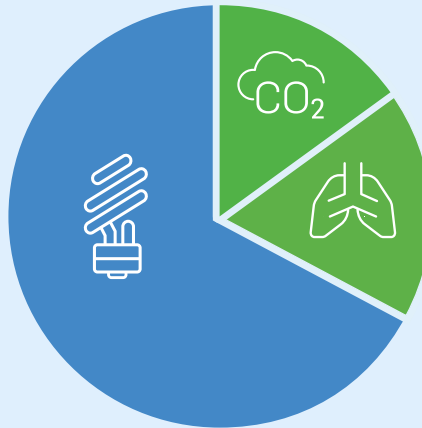
A HEALTHY HEADQUARTERS

At Carrier, creating healthier, smarter, more efficient indoor environments is a part of who we are. It's why the Center for Intelligent Buildings – our global headquarters – was designed to put healthy building expertise into practice and serve as a living example of what's possible.

COMPARED TO BUSINESS AS USUAL,
THE CENTER FOR INTELLIGENT
BUILDINGS HAS SAVED

\$172,000


IN ENERGY COSTS
over ASHRAE standard




PLUS AN ADDITIONAL

\$83,000

**IN COMBINED HEALTH AND
CLIMATE BENEFITS:**

 **\$38,000**

FROM AVERTING NEGATIVE IMPACTS OF CLIMATE CHANGE

 **\$45,000**

FROM REDUCTIONS IN AIR POLLUTION RESULTING IN
FEWER DEATHS, HOSPITAL VISITS, LOST DAYS OF WORK
AND SCHOOL, AND MORE

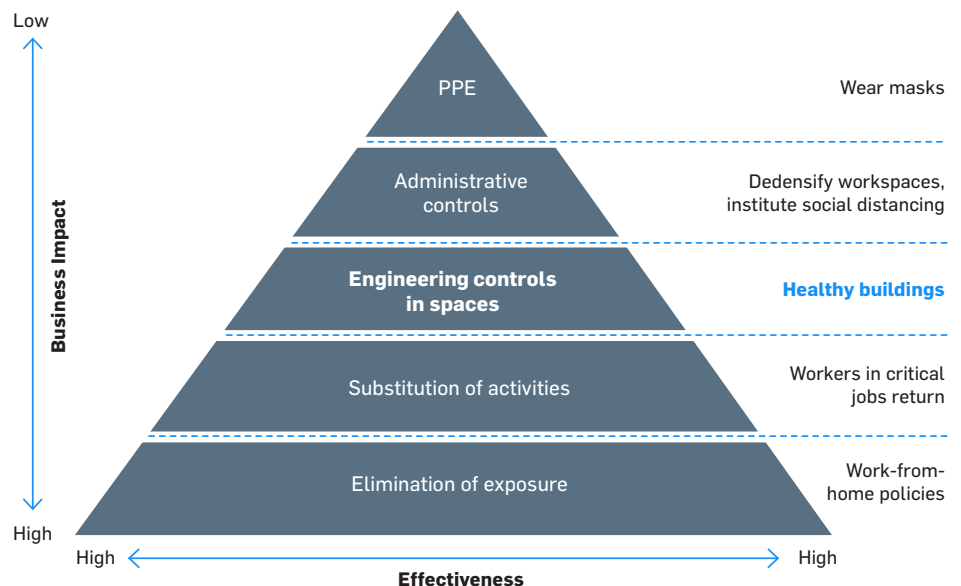
FOR A TOTAL BENEFIT OF **\$255,000** EACH YEAR

Allen, Joseph, and John D. Macomber. *Healthy Buildings: How Indoor Spaces Drive Performance and Productivity*. Cambridge, MA: Harvard University Press, 2020.

THE ROLE OF HEALTHY BUILDINGS IN REOPENING

Creating a healthy building through engineering controls in spaces is a key component of combating COVID-19. It's a strategy that balances overall effectiveness with the financial impact it can have on the business.

Allen, J. G., & Macomber, J. D. (2020, April). What Makes an Office Building "Healthy." *Harvard Business Review*



CARRIER HEALTHY BUILDINGS PROGRAM

As the inventors of modern air conditioning and a world leader in HVAC, refrigeration, and fire and 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 commercial buildings and a holistic suite of healthy building technologies and services to address the immediate pandemic concerns and long into the future.



Carrier's Center for Intelligent Buildings is located in Jupiter, Florida, USA.

HEALTHY BUILDINGS ASSESSMENTS FOR COMMERCIAL BUILDINGS

At Carrier, we understand that many of our commercial building 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 building.

 <p>SAFE START SERVICES</p> <p>Ensure building is ready for occupancy</p> <p>Rigorous recommissioning of HVAC equipment</p> <p>Implement best practices (possibly remotely)</p>	 <p>EMERGENCY ASSETS</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>IAQ ASSESSMENT</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>WELLNESS ASSESSMENT</p> <p>WELL building standard certification</p> <p>WELL performance testing</p>	 <p>SECURITY ASSESSMENT</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 COMMERCIAL BUILDINGS

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

AIRSIDE TECHNOLOGIES



OPTICLEAN™ AIR SCRUBBER



ACTIVE CHILLED BEAMS

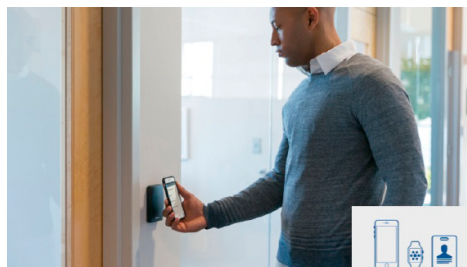


AGION®-COATED AIR-HANDLING UNIT

TOUCHLESS ACCESS



READERS AND PHYSICAL CREDENTIALS



APP AND MOBILE CREDENTIALS



MYWAY™ BUILDING SERVICES
MOBILE PLATFORM

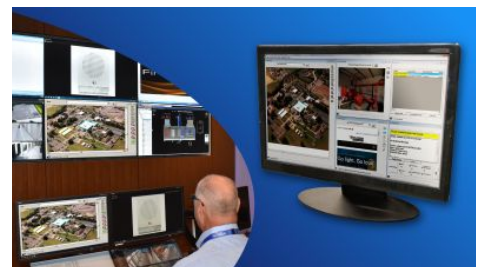
FIRE SAFETY



SMARTCELL™ WIRELESS FIRE
DETECTION



FIRECELL™ WIRELESS DOOR
CONTROL



FIREWORKS® INCIDENT
MANAGEMENT PLATFORM

HEALTHY BUILDING SERVICES FOR COMMERCIAL BUILDINGS

Healthy buildings are about more than design and solutions. Ongoing management and operation are essential to optimizing indoor environments for efficiency, safety and occupant health and performance. 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



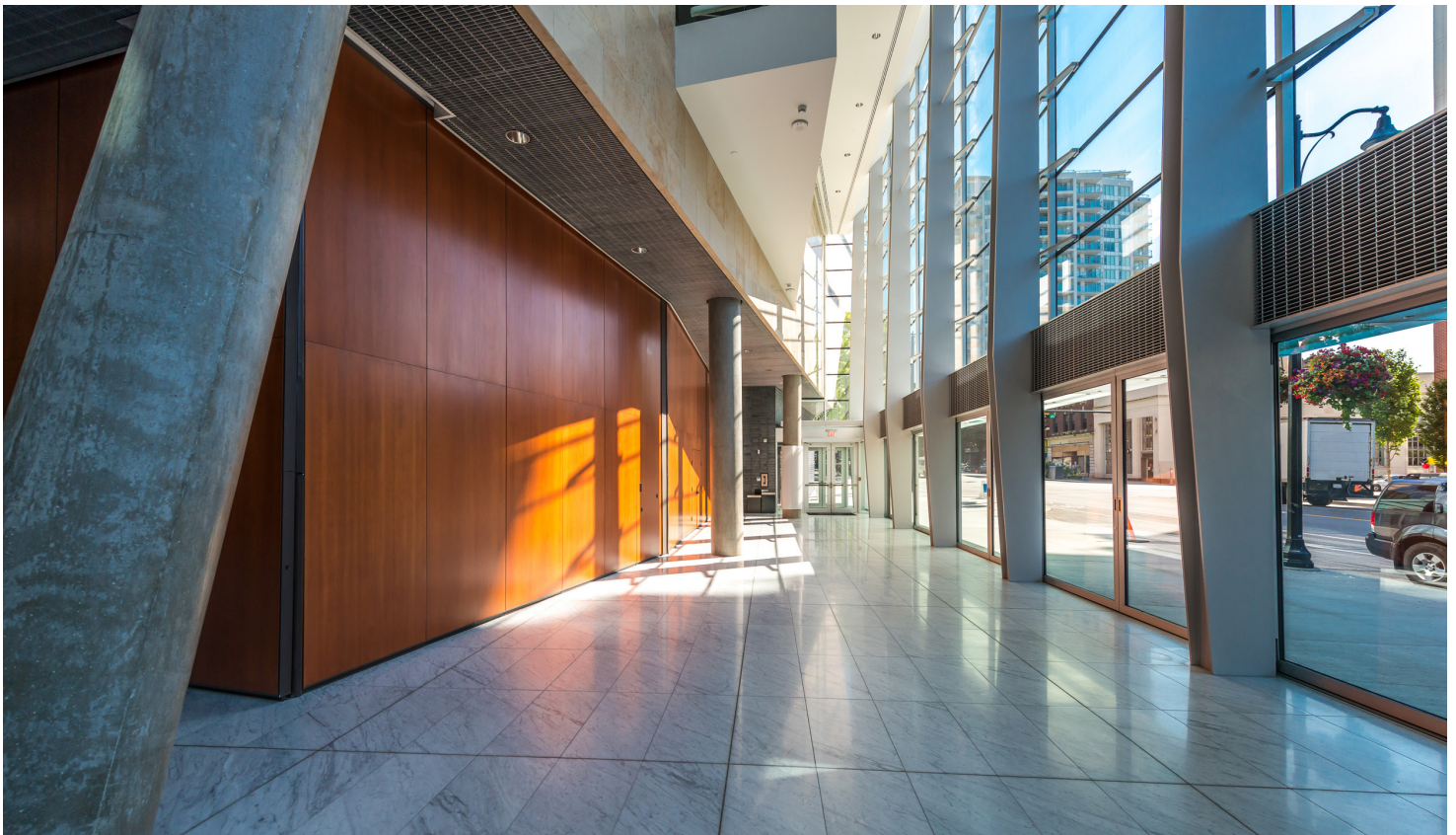
REMOTE ENERGY MANAGEMENT

- 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 safe business reopenings to ongoing enhancements to worker health and performance, a healthier future starts indoors. Let's work together to unlock the enormous potential of healthy commercial buildings. Visit us at carrier.com/healthybuildings to learn more about our Healthy Buildings Program and connect with one of our experts.



HEALTHYBUILDINGS

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