

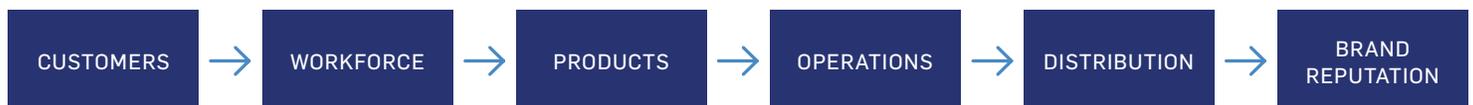


HEALTHY BUILDINGS: RETAIL

From independent small businesses and restaurants to major chains, retailers have been among the hardest hit by the COVID-19 pandemic. Temporary closures have led to decreased consumer spending and revenue, furloughs, layoffs and, in some cases, the need to permanently close doors. Now as malls, shops and restaurants look to return to business, consumers and employees are demanding healthy and safe indoor environments.

Through healthy building strategies, retailers can create and maintain healthy and safe environments, ensuring customer and employee safety and confidence in the short term, and enhancing the customer experience for years to come. In short, the future of retail is dependent upon its ability to adopt practices to promote health and implement comprehensive risk reduction plans – and that future starts indoors.

RETAIL PRIORITIES



THE SCIENCE OF HEALTHY RETAIL

Through an evidence-based approach to healthy buildings, business owners can better protect the health of their customers and the on-site employees who are critical to retail operations. This means going beyond a focus on cleaning and disinfection protocols to target all modes of COVID-19 transmission – surface transmission, large droplet and aerosol. More specifically, modes of airborne transmission can be mitigated through building-level engineering controls.

Here are some of the changes we're likely to see as retailers adjust to a new normal in response to the global pandemic.

Note that filtration and HVAC system improvements are included:

- Built-in distancing
- Product placement for speed
- Calming colors
- Autonomous stores
- Built-in drive-thrus
- Smaller stores
- **Filtration and HVAC system improvements**
- Outdoor space
- Showrooms
- Physical barriers

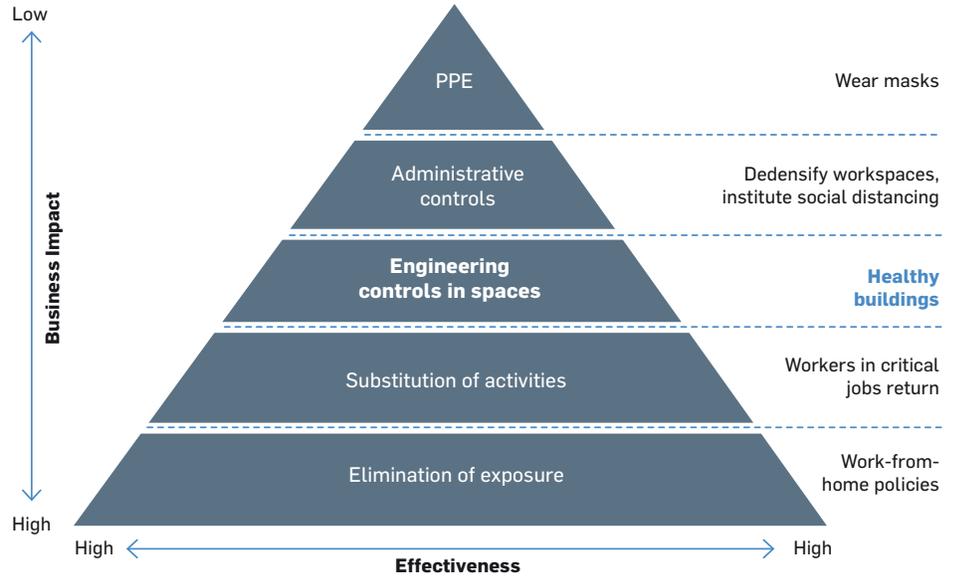
Forbes Editor's Pick, August 10, 2020 10:30 AM EDT



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 & 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 retail applications and a holistic suite of healthy building technologies and services to address the immediate pandemic concerns and long into the future.

 DEPARTMENT STORES	 MALLS/ SHOPPING CENTERS	 GROCERY STORES	 CONVENIENCE STORES	 DRUGSTORES	 DISCOUNT STORES	 WAREHOUSE STORES	 RESTAURANTS, BARS & MOVIE THEATERS
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HEALTHY BUILDINGS ASSESSMENTS FOR RETAIL

At Carrier, we understand that many of our retail 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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ADVANCED AIRSIDE SYSTEMS



FRESH AIR MANAGEMENT
ENERGY MONITORING
CO₂ LEVEL CONTROL

ROOFTOPS



CARBON FILTERS
BIPOLAR IONIZATION
CO₂ SENSORS

ACTIVAIR HYBRID HYDRONIC AIR TERMINAL



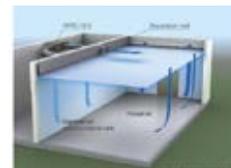
LOW HEIGHT PROFILE
MODULATING CAPACITY AND LOAD REACTIVITY
HIGH VENTILATION CAPABILITIES

AIR HANDLING UNITS



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

STRETCH CEILING TECHNOLOGY



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

AIR PURIFIERS



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

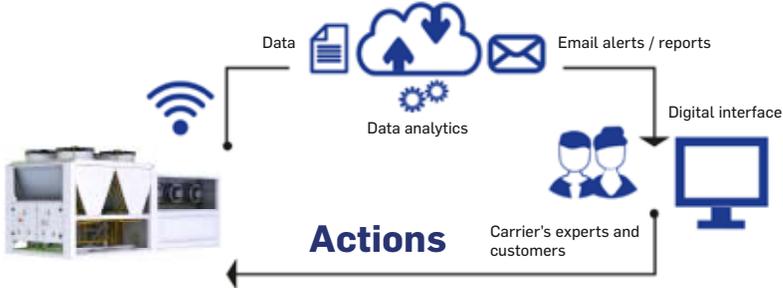
HEALTHY BUILDINGS SERVICES FOR RETAIL



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 RETAIL



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 retail. Visit us at carrier.com/healthybuildings to learn more about our Healthy Buildings Program and connect with one of our experts.



HEALTHYBUILDINGS