

# Johnson Controls is Powering the Reopening of Your Buildings

Solutions and capabilities for Public Housing Authorities and Affordable Living facilities



Ensuring residents are cared for in a safe and healthy environment is priority one for Public Housing Authorities and Affordable Living communities. Given the high risk of disease-spread once COVID-19 enters a multi-family living community, immediate action must be taken to protect residents, families, and staff from exposure to the disease.

The Centers for Disease Control and Prevention (CDC) have urgently recommended that Public Housing Authorities and Affordable Living facilities reduce the potential for the virus to enter the building, requiring the implementation of a combination of screening, tracing, sanitization and credentials management for people inflow to facilities.

The ASHRAE Epidemic Task Force urges enhanced control of airborne exposure to the virus that causes COVID-19. This necessitates changes to building operations, including ventilation, filtration, humidification and air cleaning to mitigate the risk of airborne infectious contaminants to building occupants. The New England Journal of Medicine discussed how harmful microbials, including the virus that causes COVID-19, can survive on common surfaces for several days.

The Johnson Controls Public Housing Team has the ability to help provide a healthy living environment for residents of Public Housing and Affordable Living facilities, as well as your staff.

## Powering the COVID-19 crisis response

- Implemented technology solutions in several living communities nationally
- Streamlined visitor and new resident entry for COVID-19 screening
- Provided emergency HVAC equipment in less than 24 hours for triage units
- Provided space analysis and infrastructure modifications to provide a more sanitary, healthy living environment

The power behind your mission



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## Proven experience helping customers make use of stimulus funding

The recently introduced CARES Act was designed to allocate funds to prevent, prepare for, and respond to COVID-19 to support the health and safety of residents and staff within these facilities. Johnson Controls intimate understanding of government-funded programs and related legislation, coupled with our knowledge of the public sector uniquely positions us to help customers make use of government-sanctioned stimulus packages to help fund projects.

Our extensive experience leveraging ARRA programs makes Johnson Controls a valuable partner as government-based stimulus programs are introduced.

In addition, financing options are available through Johnson Controls to help you preserve valuable cash while improving the safety of your facilities. Our experienced, dedicated Structured Finance Team is available to ensure your facility improvements happen as planned.

## Solutions that work

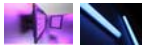


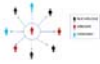
Johnson Controls has developed effective facility solutions that have the ability to improve air quality and help prevent the spread of disease. Our team has more than 25 years of expertise in designing, installing and managing solutions aimed specifically at providing residents and staff members with a clean, safe and healthy environment. And because Johnson Controls public housing solutions have been developed with standardized products and technologies on which our technicians have already been trained and qualified, the solutions can be deployed quickly.



## Some of the ways Johnson Controls can help enhance the safety and cleanliness of your facility:





### Safe and Healthy Environment



Mitigate risk to residents, staff and other occupants through a combination of screening, tracing, sanitization, and credentials management.


Customer Need	Solution	Technologies
Mitigate risk of airborne infectious contaminants to residents, staff and visitors	<ul style="list-style-type: none"> <li>Ventilation, filtration, humidity control, and air cleaning to mitigate the risk of airborne infectious contaminants to building occupants</li> <li>Retro-commissioning of HVAC system</li> <li>Air balancing</li> </ul>	<ul style="list-style-type: none"> <li>UVC Lighting </li> <li>Bipolar ionization </li> <li>Air balancing </li> </ul>
Manage resident access to building locations and/or areas	<ul style="list-style-type: none"> <li>Contact tracing enabled using passive tracking system combined with advanced analytics to enforce safe work practices</li> </ul>	<ul style="list-style-type: none"> <li>Location badges (RTLS) </li> </ul>

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Some of the ways Johnson Controls can help enhance the safety and cleanliness of your facility:

Touchless Buildings		
Touchless and frictionless access and wayfinding to minimize cross-contamination and infections, and to enhance user experience and productivity.		
Customer Need	Solution	Technologies
Mitigate risk of surface transmission of infectious contaminants	<ul style="list-style-type: none"> <li>Disinfectant lighting solutions as part of a strategy to reduce airborne and surface pathogens and viruses</li> </ul>	<ul style="list-style-type: none"> <li>UVC troffers </li> <li>FAR UVC downlight </li> </ul>
Access management screening of staff and visitors	<ul style="list-style-type: none"> <li>Triage station to perform initial body temperature measurement at your site</li> <li>Cloud-based visitor management for issuing touchless credentials, visitor management and registration</li> </ul>	<ul style="list-style-type: none"> <li>Johnson Controls thermal imaging </li> <li>Access control software (TBD) </li> </ul>

Remote Services		
Remote monitoring and management of the interior spaces of buildings to support occupant safety, productivity, comfort, and cost-effective, continuous facility operation.		
Customer Need	Solution	Technologies
Minimize on-site facility staff	<ul style="list-style-type: none"> <li>Remote Service to diagnose and resolve many systems issues quickly over the phone, minimizing the number of people/visitors on site</li> <li>Preventative and predictive maintenance programs and schedules along with equipment monitoring to respond to service requests 24/7/365</li> <li>Self-testing of fire alarm equipment using addressable notification keeps facilities compliant while making inspectors more efficient</li> </ul>	<ul style="list-style-type: none"> <li>Johnson Controls Remote Operations Center </li> <li>Security monitoring for fire and intrusion alarms, as well as elevator phone monitoring </li> </ul>

Resilient/Flexible Infrastructure		
Dynamic, flexible control of building infrastructure to support a spectrum of future states, including pandemics and surges, and to optimize resources for utilization.		
Customer Need	Solution	Technologies
Support future states, including pandemics and surges	<ul style="list-style-type: none"> <li>"Pandemic Mode" to convert buildings to negative pressure rooms on demand</li> <li>Technology resources and expertise to support urgent capacity expansion and network infrastructure modifications or additions</li> </ul>	<ul style="list-style-type: none"> <li>Flex-to-Fit controls </li> <li>Contract services</li> </ul>

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## On-site technical support

Johnson Controls can provide on-site technical resources to ensure your critical building equipment and systems achieve peak performance. We adhere to COVID-19 safety plans and guidelines to help protect our workforce and yours, along with appropriate notification procedures if COVID-19 contact does occur.

## Johnson Controls is ready to serve

Johnson Controls is uniquely qualified to provide technology equipment, solutions, service, resources and expertise to help you meet the evolving needs of your facility. In addition, Johnson Controls can rapidly mobilize technical resources – including planning and design engineers, project managers, installers, clinical communication specialists, additional service technicians and more.

## Essential workforce in your community

- 120 branch locations in North America supported by 25,000 employees
- 13,600 field technicians and mechanics in North America
- World-class vendor partners with expertise in air cleaning technologies
- Recognized by federal, state and local governments as a provider of essential products, services and personnel

## Your partner for the re-entry to a “new normal”

Johnson Controls is the power behind your mission through the uncertainty of this time. **We can help you** successfully implement strategies to help improve the safety and cleanliness of your facility.

### Contact us for more information:

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The power behind **your mission**

