Improve air quality

Introduction

Now more than ever, people are expecting safe and open indoor spaces where they can move forward to live, work, and play. Siemens Smart Infrastructure helps you transform the everyday by creating places that students, patients, and occupants can enjoy with confidence. And you can do it all while enabling future resiliency for your organization.

In this paper, we present one of our strategies to help organizations create safer, healthier buildings: improve air quality. Healthy indoor environments are proven to be associated with lower absenteeism* and better performance. This is not a new or emerging area of research and exploration, but it does carry greater importance today as organizations consider their return-to-work approaches.

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<th>Objective</th>
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<td>Implement new HVAC maintenance strategies</td>
<td>Predictive and proactive analytics and monitoring</td>
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<td>Upgrade the level of filtration</td>
<td>Advanced filtration strategies and mechanical services</td>
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New maintenance strategies help properly clean and condition indoor air

By applying new **predictive and proactive** maintenance strategies – such as cloud-based analytics to continuously monitor mechanical and automation systems – HVAC equipment can help to properly clean and condition indoor air. Additional **engineering controls and technologies** can be applied to improve the health of building systems as well as air quality.

Advanced filtration technologies for better air quality

Where HVAC equipment can support it, upgrading the level of system filtration can help prevent fine particles from getting through filters and spreading throughout the building. ASHRAE has suggested MERV-13** as a way to help prevent the spread of airborne viruses. But mechanical systems must be sized appropriately for this intense level of filtration; and regardless of capacity, even the best filters must be properly installed in air handling units to be effective.

**Ready to learn more about how healthy buildings can create places for a safer, healthier, and more confident everyday?**

Visit us at usa.siemens.com/smartbuildings

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* U.S. Environmental Protection Agency
** ASHRAE.org