

OpenBlue

Indoor Air Quality

Start your clean air plan here

Two-week audit provides clear direction



Get an accurate indoor air quality (IAQ) baseline plus practical recommendations for improvements to your building or campus. Our OpenBlue IAQ audit service gathers data for two weeks to give a detailed picture of your facility's IAQ as it changes with the weather, outdoor air conditions, occupancy, and time of day. This extended view is more accurate than a point-in-time snapshot and delivers:

- Prioritized issues and opportunities to make the most of available funds
- Engineers' recommendations for lasting IAQ improvements, tailored to your timeline and budget
- Reliable, real-world data to build your business case

Long-term benefits

While good IAQ is critical to mitigating the risk of airborne viruses like COVID-19 or the flu, researchers have found even more far-reaching benefits:

- Decreased absenteeism due to allergies and asthma^(1,2)
- Improved cognitive ability^(3,4)
- Increased engagement and learning⁽³⁾

In short, the importance of clean air is ongoing for schools, offices, nursing homes and other facilities—and we can help you achieve it efficiently and effectively.

As easy as 1-2-3

The audit has three straightforward phases.

- 1 Plan and deploy.** Your Johnson Controls rep visits to gather information about your facility. Engineers certified in the WELL Building Standard® then determine where to place temporary sensors, and Johnson Controls technicians carry out the comprehensive audit.
- 2 Measure and analyze.** For two weeks, sensors gather critical air quality data. OpenBlue algorithms are used to analyze the information and produce a report covering comfort, humidity, ventilation, filtration, and volatile organic compound (VOC) levels.
- 3 Recommend.** Our team of WELL AP engineers personalizes your report, recommending improvements in order of priority.

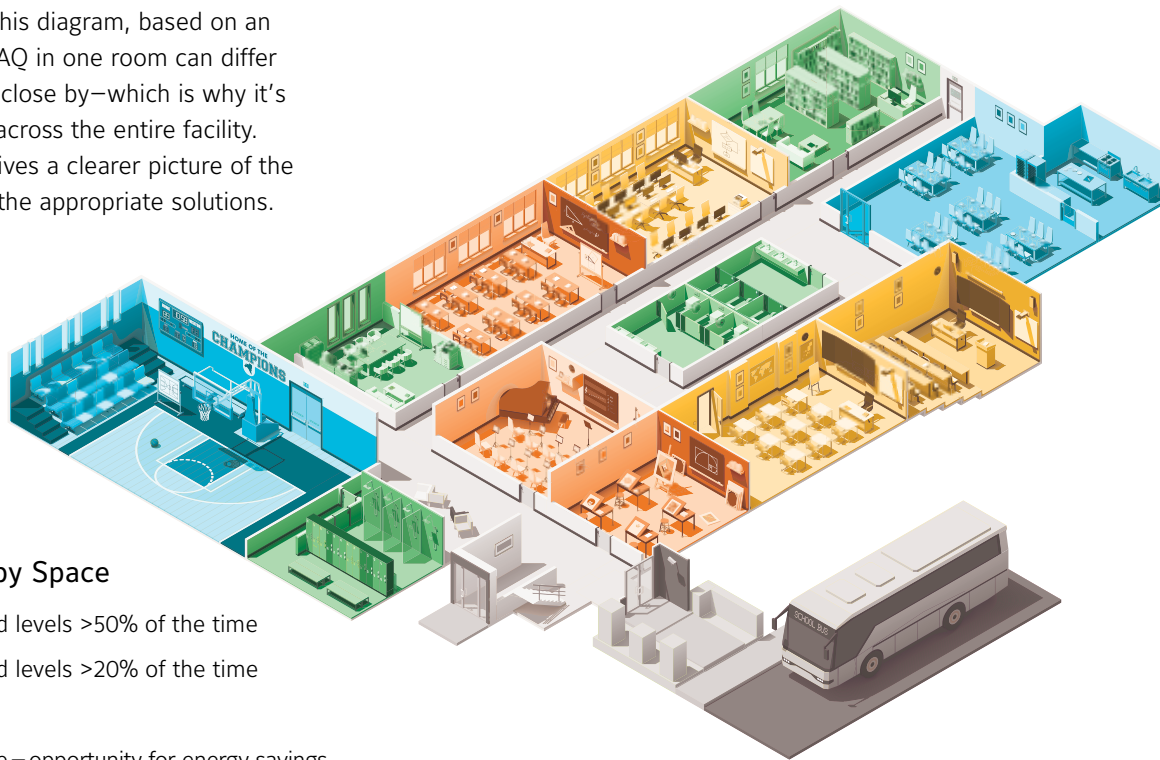
The result: You know where best to focus time, effort and resources to improve IAQ.

Standard audit kit includes 24 IAQ sensors, two particulate matter sensors and three communication gateways.



See how IAQ varies from space to space

The design of your HVAC system, the number of occupants in a space, and the way a space is used all affect indoor air quality. This diagram, based on an actual audit, shows how IAQ in one room can differ significantly from an area close by—which is why it's important to gather data across the entire facility. Testing over two weeks gives a clearer picture of the factors affecting IAQ and the appropriate solutions.



Particulate Levels by Space

- Above recommended levels >50% of the time
- Above recommended levels >20% of the time
- Acceptable levels
- Low >80% of the time – opportunity for energy savings

Get reports for the spaces in your facility

Your OpenBlue IAQ audit includes reports detailing the IAQ in your facility and the data needed to develop a remediation plan tailored to your exact needs.

- Data on critical IAQ factors and trends is gathered throughout the two-week audit.
- A condition summary for each space makes it easy to spot areas with poor IAQ, identify root causes, and create remediation plans.
- Outlier analysis compares areas of interest to average space air quality.

Learn more about our OpenBlue IAQ audit service

Know where to focus resources to improve IAQ – and help keep the people in your building healthy and productive. Contact Johnson Controls to learn more today.

“You can’t know the CO2 levels, air particle concentrations, or energy efficiency and airflow factors without a formal IAQ audit. If a school has not had one, or needs to replace any HVAC equipment, I highly recommend it.”

Dr. Jeanne Siegenthaler
District Administrator
Richmond School District, WI

1 - The Economic Burden of Asthma in the United States, 2008-2013. Tursynbek Nurmagambetov, Robin Kuwahara, and Paul Garbe.

2 - Economic impact of workplace productivity losses due to allergic rhinitis compared with select medical conditions in the United States from an employer perspective. Charles E. Lamb, Paul H. Ratner, Clarion E. Johnson, Ambarish J. Ambegaonkar, Ashish V. Joshi, David Day, Najah Sampson, and Benjamin Eng.

3 - The Lancet COVID-19 Commission Task Force on Safe Work, Safe School, and Safe Travel. Designing infectious disease resilience into school buildings through improvements to ventilation and air cleaning. April 2021.

4 - Associations of Cognitive Function Scores with Carbon Dioxide, Ventilation, and Volatile Organic Compound Exposures in Office Workers: A Controlled Exposure Study of Green and Conventional Office Environments. Joseph G. Allen, Piers MacNaughton, Usha Satish, Suresh Santanam, Jose Vallarino, and John D. Spengler.

