

# OpenBlue Clean Air

## Healthy air for healthy schools

Three trusted leaders bring you a better approach to IAQ for schools and academic settings



Keep students and staff in academic settings healthy, engaged and confident with a better indoor air quality (IAQ) solution from three industry leaders: UL, the global safety science company, SafeTraces, a leader in DNA-based safety technology, and Johnson Controls, experts in smart, healthy buildings. Together we bring you:

- New aerosol-based diagnostics to measure IAQ and ventilation and filtration effectiveness
- Science-based data to build your business case and make the most of available funds
- A blueprint for lasting clean air improvements, tailored to your timeline and budget

### The right starting point: an independent assessment

Just as a doctor needs a clear diagnosis to prescribe effective treatment, an independent assessment of your school's IAQ, ventilation and infection control systems shows where best to focus your time, effort and resources. Our real-world testing frequently results in net cost savings.

- **Enhance** safety with an evidence-based clean air strategy
- **Prevent** misdirected efforts and wasted spending
- **Verify** and justify resource use
- **Inspire** confidence in staff, students, parents and the community

### The right providers: a unique partnership

This first-of-its-kind partnership among three industry leaders simplifies scope and pricing for K-12 schools, whether you've taken steps toward clean air or have yet to act.

**UL** has conducted tens of thousands of IAQ and IEQ assessments through its Healthy Building Program and tests to ASHRAE 62.1 standards.

**SafeTraces** is the developer of veriDART™, the first aerosol-based solution for verifying HVAC system performance. veriDART uses patented DNA-tagged bioaerosol tracers to test airflow patterns, identifying potential infection hotspots and informing safety and financial planning.

**Johnson Controls** is the industry leader in smart buildings, with proven solutions including OpenBlue Schools--integrating building IT, communications, administration and classroom learning systems with core building systems to create smart, connected schools.

Together we offer you a practical, turnkey service: experienced experts to help you find problems--and solve them.

### The right time: a long-term view

While good IAQ is critical to mitigating the risk of airborne viruses like COVID-19 and the flu, clean air has even more far-reaching benefits:

- Proven to decrease absenteeism due to allergies and asthma
- Linked to improved cognitive ability, supporting learning
- Linked to increased engagement, enhancing productivity

In short, the importance of clean air is ongoing--and we can help you achieve it efficiently and effectively. With your assessment in hand, Johnson Controls experts help you create a comprehensive, long-term strategy that guides each step toward a healthier, more engaging learning environment.

### Start now

Take a better approach to IAQ. Visit [www.johnsoncontrols.com/openblue/openblue-clean-air](http://www.johnsoncontrols.com/openblue/openblue-clean-air) to schedule your independent assessment today.

The power behind your mission

## Here's what you get

Your IAQ assessment provides details and recommendations you can't get elsewhere and delivers data in an easy-to-use format.

### Detailed Building Data Summary Report

Data on building size and use, recent renovations, special use areas, number of AHUs, filtration type and schedule, air supply system type, and areas of concern.

### HVAC Systems Inspection

Inspect representative AHUs, fan coils, induction units, filters, air supply diffusers, and return air grilles. Ensure proper control, sequencing, and operation at desired setpoint and schedule.

### Air Quality Testing

Test for CO<sub>2</sub>, CO, particulates (PM<sub>2.5</sub>), temperature, relative humidity, NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>, VOCs, airflow vectors and air pressure differentials.

### Ventilation Assessment

Ensure outside air intake, supply air fan, and/or ventilation system supplies minimum outdoor air ventilation rate detailed by ASHRAE 62.1-2016 (unique to this assessment) and meets needs for space type, square footage and occupancy.

### Infection Risk Assessment

Unique DNA-tagged bioaerosol tracers safely simulate respiratory emissions to identify potential infection hotspots, verify ventilation and filtration system performance for mitigating airborne exposures, and optimize enhancements.

## The 5 Pillars of Your Clean Air Strategy

OpenBlue Clean Air from Johnson Controls delivers more clean air in your building to create a safer, healthier environment. We help develop the right strategy for your facility, using five pillars aligned with ASHRAE and CDC guidelines.

### Set a clear baseline.

Start with a science-based indoor air quality (IAQ) assessment, evaluating your mechanical systems and any needs for remediation. Then build on the five pillars.



#### Ventilation

**What it does:** Dilutes dirty air with clean air as available from the outside

**How we do it:** Ensure delivery of ASHRAE required ventilation rates through service and solutions such as Metasys clean air monitoring



#### Isolation

**What it does:** Contains particles to prevent them from going elsewhere in the building

**How we do it:** Create negative-pressure isolation environments with options such as IsoClean portable filtration units, Triatek room pressure controls and Metasys



#### Filtration

**What it does:** Mechanically removes particles from the air

**How we do it:** Increase particle collection with options such as Koch Filters, MAC-10 Fan Filter Units, Envirco IsoClean Portable HEPA Filtration Units



#### Monitoring and Maintenance

**What it is:** Inspect and service equipment at the recommended frequency

**How we do it:** Track results, holding ourselves accountable to ensure you meet your goals. Provide ongoing maintenance and monitoring to maintain clean air.



#### Disinfection

**What it does:** Deactivates bacteria and viruses

**How we do it:** Add disinfection technologies such as ultraviolet C (UV-C) lighting

