

MAKE YOUR SCHOOL AN INCUBATOR FOR CLEANER AIR

Are you prepared to track and improve indoor air quality when students return?

INDOOR AIR QUALITY GUIDE
FOR K-12 SCHOOLS

Honeywell



LEARNING IN PERSON MAKES A DIFFERENCE

"What we know about the pandemic's consequences for education so far: ... learning and development have been interrupted or disrupted for millions of students."

—Economic Policy Institute (EPI)¹

BRINGING STUDENTS BACK STARTS WITH A PLAN

As schools reopen, many must reassure their community by sharing a comprehensive safety plan. The CDC offers a key starting point: Better ventilation and indoor air quality (IAQ) can help schools maintain healthier environments² – and government funding is available to support the upgrades.

INDOOR AIR QUALITY MAKES A DIFFERENCE TOO

"Ventilation is one component of maintaining healthy environments, and is an important ... prevention strategy for schools and childcare programs."

—Centers for Disease Control and Prevention²

MAKE IT SAFER. SHOW IT'S SAFER. KEEP IT SAFER TOMORROW.

Our Healthy Buildings solutions can help make your school measurably safer, with data and monitoring to show it's safer in real time, plus analytics and modular capabilities to keep spaces safer and more productive even as needs change.

MAKE IT SAFER

STUDENTS AREN'T IN SCHOOLS

Losses anticipated in academic growth

EPI analysis finds that in 2019–2020, students may have had academic losses of "at least 0.1 SD across the board, and larger in earlier grades."¹

That's a potential loss of 14% to 33% of the year's standard academic growth, based on the average annual gain of 0.3–0.7 SD.¹

START WITH A NO-COST ASSESSMENT

The first step to safer reopening is using ventilation and air cleaning more effectively:

- Can help reduce exposure to pathogens, pollutants, dust, mold and other irritants
- Can improve comfort and focus

We'll assess your site to identify your:

- Current equipment, needs and challenges
- Policies and regulations

HOW DO WE KNOW IF THE AIR QUALITY HAS BEEN IMPROVED?

It's hard to respond to risks you can't measure.

Many schools don't monitor air quality and have no way to do so.

SET A BASELINE TO TRACK PROGRESS

Establish a quantitative baseline for building health:

- Integrate the HVAC system with sensors to monitor air quality and other factors
- Tracked in real time as your "Healthy Buildings Score"

ARE WE ABLE TO ACHIEVE COMPLIANCE?

Many schools are not currently capable of complying with CDC and ASHRAE guidelines for pandemic response.

41% of districts need to update or replace HVAC systems in at least half of their schools.

Improvements to these systems can improve air quality.

MAKE IMPROVEMENTS YOU CAN MEASURE

Assess whether systems need adjustments or upgrades

- We use as much current equipment as possible
- Integrate IAQ sensors to monitor air quality and automatically clean it as needed
- Show compliance with precise air-quality data

Optimize ventilation, filtration, humidity and temperature

- Reduce unwanted particles (pathogens, pollutants, irritants)
- Better comfort can raise confidence and productivity

SHOW IT'S SAFER

HOW DO WE REASSURE PARENTS AND TEACHERS?

"Because I can't see for myself what's going on in that building, I'm not going to trust somebody else to keep my children safe."

— Mother & parent leader⁴

Many students may not be able to get vaccinated due to age restrictions and limited supplies.

51% of employees fear getting sick at work and say it's a barrier to returning.⁵

PROVIDE REAL-TIME SAFETY DATA

Your Healthy Buildings dashboard includes public views:

- Share on website and/or screens at school
- The Healthy Buildings Score lets parents and staff see status any time – e.g., before heading to school

BUT CAN WE EVEN AFFORD UPGRADES RIGHT NOW?

Budgets can be tight, with numerous competing priorities.

WE CAN HELP YOU APPLY FOR GRANTS

The federal government has approved more than \$100B in relief funds specifically for K-12 school districts:

- Three bills have established a fund: "Elementary and Secondary School Emergency Relief Fund" (ESSER)
- AASA, The School Superintendents Association, recommends schools budget 15% or more of federal funds for upgrades such as IAQ improvements⁶

We can help you assess your eligibility and guide you through applications for federal funding, as well as other types of financing.

KEEP IT SAFER

WILL THE COSTS AND EFFORT BE SUSTAINABLE?

Even if we receive grant money, can we afford the ongoing operation and maintenance costs?

Will these upgrades be relevant after the pandemic? Will they be easy to maintain?

A HEALTHIER SCHOOL IS MORE ADAPTABLE AND SUSTAINABLE

Upgrades are designed to fit your needs and workflows, including ease of use and maintenance:

- We use as much current equipment as possible
- To retain familiarity and keep costs down

The Healthy Buildings dashboard shows analytics and alerts:

- Helps optimize costs, prevent costly disruptions
- Monitor building health, system performance, KPIs, and other trends
- Also informs long-term planning and investments

The Healthy Buildings platform is modular

- E.g., can expand to energy efficiency / sustainability
- Guaranteed-performance contracts and AI-driven energy efficiency can increase savings 10–20%

1. Garcia, Emma and Elaine Weiss. "COVID-19 and student performance, equity, and U.S. education policy." Economic Policy Institute (EPI). 10 Sept. 2020. Accessed 23 March 2021.

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3. "K-12 Education: School Districts Frequently Identified Multiple Building Systems Needing Updates or Replacement." GAO-20-494: Report to Congressional Addressees. United States Government Accountability Office (GAO). June 2020. Accessed 23 March 2021.

4. Shapiro, Eliza, Erica L. Green, and Juliana Kim. "Missing in School Reopening Plans: Black Families' Trust." New York Times. 1 Feb. 2021. Accessed 11 May 2021: <https://www.nytimes.com/2021/02/01/us/black-families-school-reopening.html>

5. "Reboot: Employees want safety and well-being prioritized." PwC, 11 May 2020. Accessed 23 March 2021: <https://www.pwc.com/us/en/library/covid-19/employees-anxious-about-returning-to-workplace-1.html>

6. "School Construction, Air Quality and Federal Funding: What Superintendents Need to Know." AASA, The School Superintendents Association, 12 May 2021. Accessed 17 May 2021: https://aasa.org/UploadedFiles/Policy_and_Advocacy/SchoolConstructionAirQualityFederalFunding.pdf

LETS BRING STUDENTS BACK

[Schedule your indoor air quality assessment today](#)

For More Information

buildings.honeywell.com

#HealthyBuildings

Honeywell Building Technologies

715 Peachtree St. NE

Atlanta, GA 30308

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