

# HEALTHY BUILDINGS NURTURE SAFER LEARNING ENVIRONMENTS

The world is changing fast and schools are facing new challenges. Pathogens and allergens make it mandatory to assess and address environmental health issues – making sure that your school building is healthier and that your staff and students are better protected.

---

EDUCATION

---



**Honeywell**



# MAKE IT EASY FOR STUDENTS AND TEACHERS TO FOCUS ON EDUCATION

There is substantial evidence that indoor environmental exposure to allergens plays a role in triggering asthma symptoms and other health issues. Use your HVAC ventilation and filtration systems to reduce the airborne concentration and transmission of viruses and other airborne pollutants that could be affecting the health of your staff and students.<sup>1</sup>

## HEALTH

The developing bodies of children might be more susceptible to environmental exposures than those of adults.<sup>1</sup> Children breathe more air in proportion to their body weight than adults. Children's overall performance decreases with illnesses or absences from school and can also be affected when teachers are absent due to illness. How can you improve your building's health for staff and students?

## PERFORMANCE

Research shows that poor indoor air quality in schools is linked to decreased concentration and poor test results. There is also evidence that moderate changes in room temperature affect children's abilities to perform mental tasks requiring concentration, such as addition, multiplication, and sentence comprehension.<sup>2</sup> Is your building supporting a productive learning environment and a safe workplace?

## COMFORT

Research from a study at The University of Syracuse Center of Excellence revealed that changing the air quality its participants worked in, also changed their cognitive performance. An improvement in air quality is also an improvement in performance, for students and teachers alike. Does your teaching environment encourage best results?

For over a century, Honeywell has been a global leader in technology that makes buildings safer, healthier, and more energy efficient.



## A HEALTHY SCHOOL BUILDING CAN

- Improve student attendance, comfort, and performance
- Improve teacher and staff performance
- Improve the efficiency of the school building and equipment
- Decrease potential for school closings or relocation of staff
- Improve community trust



# KEEP KIDS AND TEACHERS SAFE AND YOUR BUILDING IN GOOD HEALTH

Air filtration, thermal and humidity control, pressurization and system management tools, all play a key role in healthier school facilities. Honeywell building solutions bring your facility to peak shape, making sure all HVAC systems are operating efficiently and every piece of equipment is optimized.



### Humidity

High humidity levels promote the growth of bacteria and mold and create an environment where dust mites can thrive. Lower humidity creates other concerns like dry, itchy skin, transmission of viruses and the irritation of the upper respiratory system. We can help you maintain optimal humidity between, 40% - 60%, to reduce the transmission of germs.<sup>3</sup>



### Fresh air

Improving the quality of indoor air and the amount of fresh air needed for your facility is key to a healthier environment. Controlling the indoor sources of odors, chemicals, and carbon dioxide provide the optimal visitor experience. In bathrooms and other areas with high contamination potential, increasing the frequency of air exchange will reduce the risk of airborne transmission of infectious disease.



### Advanced filtration

From controlling bacteria to pollen, to pollutants, the filtration system is essential for your building's health. We can help remove and clean more airborne particles before they circulate throughout your facility..



### Pressurization

Maintaining stable negative room pressurization results in efficient re-circulation and improves air exchange for a healthier environment. It also reduces the spread of infectious pathogens suspended in the air from drifting into neighboring spaces and infecting others – reducing the spread of infectious disease from room to room.



### Thermal comfort

Maintain optimal temperatures for comfort and health and respond to comfort issues before you receive complaints using advanced mobile data and alerts, from wherever you are.



### 24/7 Building Monitoring

Set up your building's management dashboard to monitor key variables, with alerts that notify you when optimal conditions are not being met.



### Safety and Security

Single site or enterprise access control, intrusion detection, video surveillance, building automation, contact tracing, or more combined..

According to the EPA, nearly 80 percent of teachers responding to a survey in Chicago and the District of Columbia reported that school facility conditions were an important factor in teaching quality.<sup>2</sup>

1. <https://www.epa.gov/iaq-schools/why-indoor-air-quality-important-schools>

2. <https://www.epa.gov/iaq-schools/evidence-scientific-literature-about-improved-academic-performance>

3. <https://www.epa.gov/indoor-air-quality-iaq>



# FIND OUT HOW HONEYWELL SOLUTIONS CAN HELP YOUR FACILITY THRIVE.

MAIN RECEPTION



Talk with one of our experts to  
arrange an executive briefing.

[hwl.co/HealthyBuildings](http://hwl.co/HealthyBuildings)

#### For More Information

[www.buildings.honeywell.com](http://www.buildings.honeywell.com)

#HealthyBuildings

#### Honeywell Building Technologies

715 Peachtree St NE

Atlanta, Georgia 30308

[www.honeywell.com](http://www.honeywell.com)

© 2020 Honeywell International Inc.

**Honeywell**

**ICD**  
BUILDING AUTOMATION