AIRCUITY®
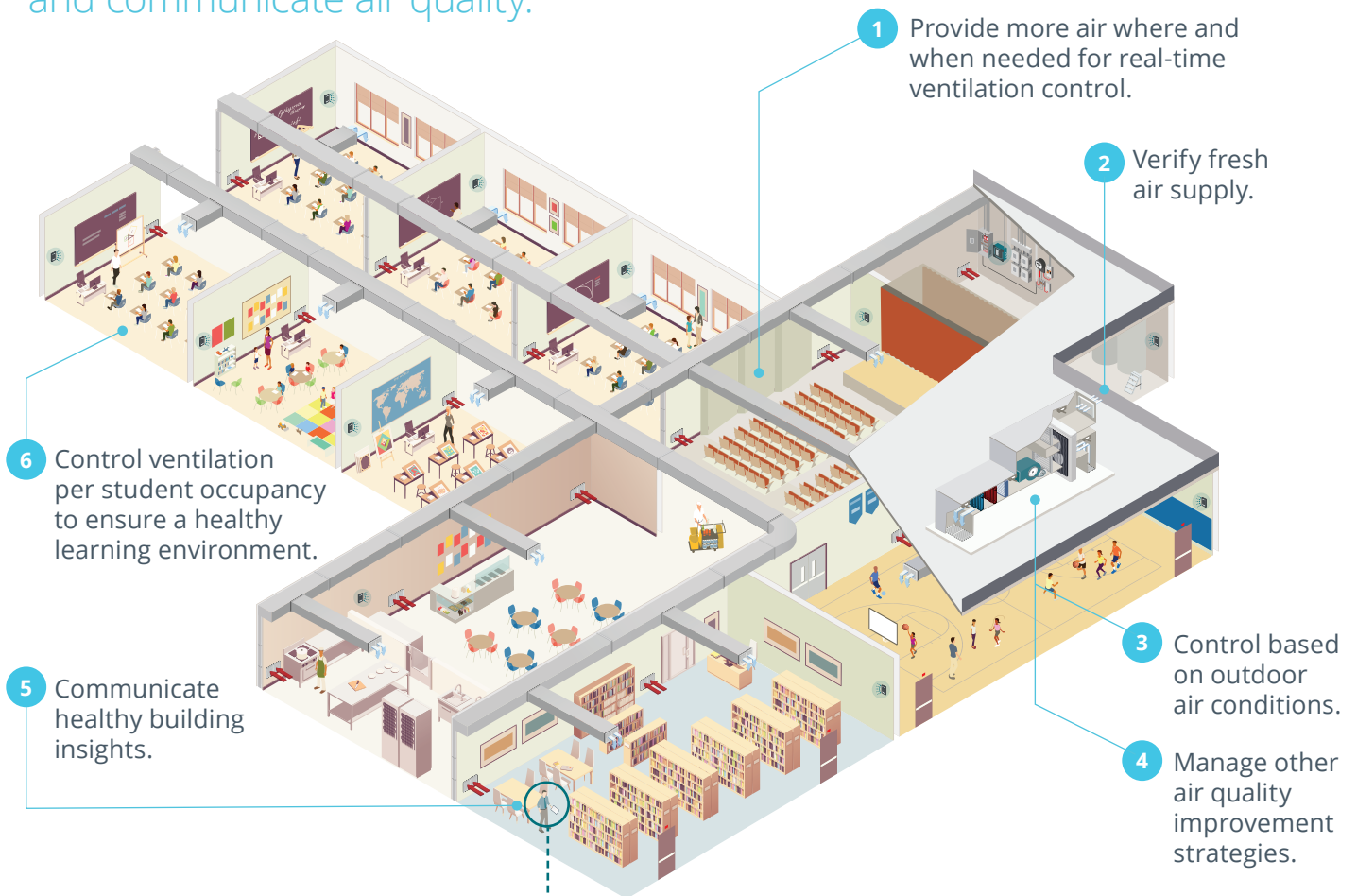Accurate ventilation for healthy, sustainable buildings. | AQaaS™

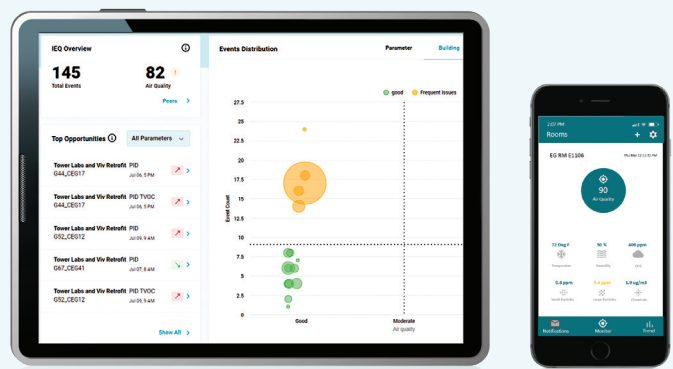# Achieving and Maintaining a Healthy K-12 Learning Environment

Start with a platform to measure, manage, and communicate air quality.

1 Provide more air where and when needed for real-time ventilation control.

2 Verify fresh air supply.

3 Control based on outdoor air conditions.

4 Manage other air quality improvement strategies.

5 Communicate healthy building insights.

6 Control ventilation per student occupancy to ensure a healthy learning environment.

Aircuity's Platform

A data driven approach to a healthy building.

- Accurate **measurement** of science-based healthy building parameters.*

- Integrated with the building automation system for precise **management** 24/7.

- Cloud-based **communication** platform with intelligent analytics.

* Refer to Healthy Air Targets chart on back.

Strategies for Achieving and Maintaining a Healthy Learning Environment

- Implement a platform that is a single point of reliable IAQ data.

- Use data for retro commissioning to maximize the healthy learning environment over time.

- Measure outside air and supply air quality to ensure clean, healthy, and properly humidified air is delivered to students.

- Measure the air pre and post filters to ensure small particle filtration is being achieved.

- Use Aircuity to provide accurate dewpoint/humidity measurement, as humidity is a key determinant of student health especially during peak viral seasons.

- Implement Aircuity's demand control ventilation to deliver more air where and when needed to enhance cognitive ability and health.

- Identify densely occupied spaces where student and educator health may be at a higher risk and increase ventilation.

- Utilize Aircuity's IAQ platform to manage and verify all other air quality improvements such as: ionization in room filtration and AHU UV.

*Healthy Air Targets

PARAMETER	TARGET
Total Volatile Organic Compounds[1]	< 500 µg/m^3
Micro Respiratory Particles[2] (0.3 – 0.5 µm)	space dependent
PM 2.5 (0.5 – 2.5 µm)	< 15 µg/m^3
Carbon Monoxide	< 9 ppm
Carbon Dioxide	200–500 ppm differential above outside air
Relative Humidity	40–60%

1. Aircuity deploys a PID and MOS sensor for the broadest and most accurate measurement of TVOCs.
2. Research ongoing, consult with Aircuity based on filtration strategy and healthy building targets.

LEARN MORE

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