

# Achieving and Maintaining Healthy and Productive Campus Buildings

Aircuity cost-effectively creates healthy indoor environments that adjust for flexible occupancy levels in all buildings.

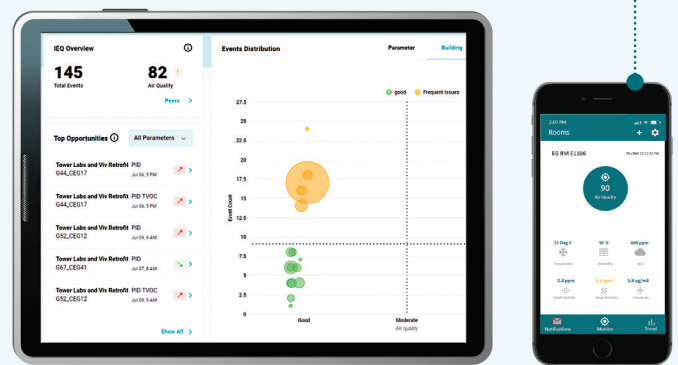
- 1 Increase ventilation using science-based standards to economically deliver the best air quality possible.
- 2 Use accurate data to determine which spaces have air quality issues so they can be addressed.
- 3 Communicate healthy air data to students, parents and staff to instill maximum confidence.
- 4 Classrooms adjust ventilation to student occupancy, ensuring a healthy learning environment.
- 5 Student Union and Library – Monitor and control ventilation in the buildings where occupancy levels vary significantly.
- 6 Vivariums and Labs – Monitor and safely control ventilation in the most energy intensive spaces.
- 7 Dorms – Monitor and control ventilation in these densely occupied buildings where students spend most of their time.



## Aircuity's Platform

### A data driven approach to a healthy building.

- Accurate **measurement** of science-based healthy air 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 Healthy and Productive Campus Buildings

- Implement a platform that is a single point source 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 occupants.
- Measure and control particle levels before and after the 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 <sup>1</sup>	< 500 µg/m <sup>3</sup>
Micro Respiratory Particles <sup>2</sup> (0.3 – 0.5 µm)	space dependent
PM 2.5 (0.5 – 2.5 µm)	< 15 µg/m <sup>3</sup>
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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