

Aircuity case study

Cambridge Public School District

Cambridge Public Schools Use Aircuity to Help Create Healthy and Sustainable Facilities

CAMBRIDGE PUBLIC SCHOOL DISTRICT, located in the Greater Boston area, serves over 6,500 students and employs more than 600 teachers. They currently have one net zero emissions school and one near net zero school with the Aircuity system installed helping to substantially lower the energy demand while providing good indoor air quality. During the COVID-19 pandemic they relied on the system to ensure a healthier environment for staff and students.



Martin Luther King, Jr. Elementary School

MARTIN LUTHER KING, JR. ELEMENTARY SCHOOL

To support the City of Cambridge's mission to be a net zero emissions community by 2050 Cambridge Public Schools set out to design the new Pre-K thru 8th grade school to be the first NZE building in the city. The school system worked with Perkins Eastman on the design and Aircuity channel partner, Flow Tech Inc., introduced Aircuity to lower energy demand. Aircuity was installed and the school opened to students in 2015. It was a near net zero emissions

building and received LEED® Platinum certification in 2018.

Since the school's opening, Aircuity has helped lower energy savings while creating a healthier indoor environment by optimizing clean airflow.

Aircuity has been a key component in the district's back-to-classroom strategy by providing a platform to accurately measure and control IAQ. The schools' facilities departments can also easily export data and regularly present it to building occupants to validate the building's air quality. In addition, local channel partner, Flow Tech, Inc., installs freshly calibrated sensors from Aircuity's calibration laboratory on a semi-annual basis. This is extremely helpful as it is done proactively and ensures the system is working as accurately as possible.

"On-demand ventilation is a key part of our strategy to reduce energy consumption, which in turn helps us reduce the size of our new HVAC systems. Aircuity has been a major partner with us on our new schools to help ensure healthy indoor air quality while also minimizing our energy needs and equipment. In addition, Aircuity's historical data logging system has been a great help to our facility staff, and Aircuity has done an excellent job servicing our systems to keep them running optimally."

Kris Weeks, Manager of Net Zero Projects
Cambridge Public Schools

THE KING OPEN ELEMENTARY/CAMBRIDGE STREET UPPER SCHOOLS

Following the successful implementation at the Martin Luther King School, Aircuity was brought in when the district was building a new Pre-K thru 8th grade school. This school was again aiming

to be net zero emissions and including Aircuity would drive down energy consumption while providing a healthier indoor air quality for students.

The 273,000 square foot school complex opened in 2019 as net zero emissions and is designed to use 43% less than a typical Massachusetts school and 70% less than other schools in the United States. In 2021 it was announced that the school complex also earned LEED v4 Platinum certification.



King Open Elementary/Cambridge Street Upper Schools

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ABOUT CAMBRIDGE PUBLIC SCHOOLS

Cambridge, Massachusetts is a dynamic, diverse urban community with a strong commitment to investing in our public schools. Rich in racial, ethnic, cultural, linguistic, and socio-economic diversity, the Cambridge Public Schools is committed to academic excellence and social justice, with rigorous, joyful, and culturally responsive learning experiences for all students.

ABOUT AIRCUITY

Aircuity is the 20-year leader in healthy, sustainable and accurate ventilation through its patented solution. As a result, commercial, institutional and lab building owners can protect occupants, improve employee productivity and wellness, lower operating costs, and verifiably reduce energy use by as much as 60 percent. Headquartered in Newton, MA, Aircuity’s solutions have benefited organizations such as Google, Amazon, SUNY, Eli Lilly, Durst Organization, the University of Pennsylvania, and the University of California-Irvine. For additional information on the company and its solutions, please visit: www.aircuity.com.

