Aircuity case study

Skidmore Owings & Merrill

API Connection Enables Full Picture of Building Conditions; Data Guides Reoccupancy

Headquartered on the 27th and 28th floor of 7 World Trade Center in New York City, Skidmore Owings & Merrill (SOM) is a leading design firm consisting of architects, designers, engineers and planners. The firm was designing their new headquarters with a focus on the environment along with prioritizing the health and safety of employees. To address employees' well-being, SOM is pursuing IWBI's WELL Certification and selected Aircuity to earn required points in one of WELL's largest categories, the Air Concept. This enables the firm to optimize ventilation and provide a healthy, productive environment for occupants while also reducing their carbon emissions.

SOM Headquarters ▪ 7 World Trade Center

AIR QUALITY ON DISPLAY

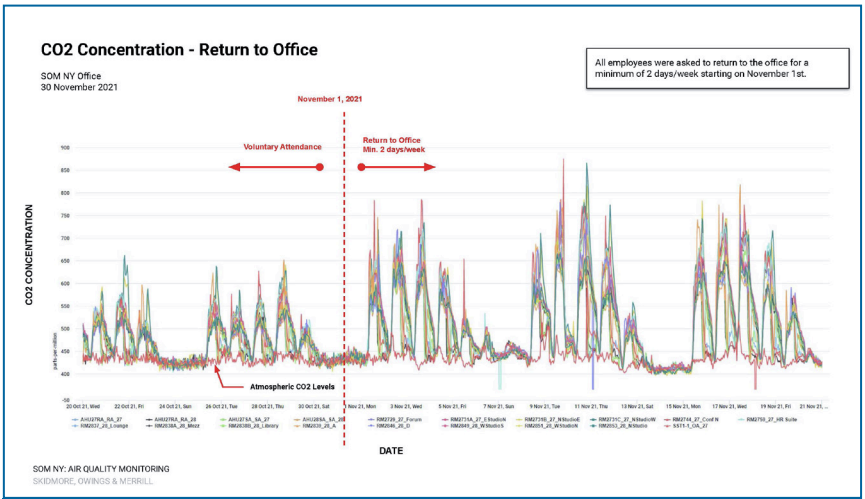
As part of the WELL Building Certification Aircuity is measuring, controlling and reporting on CO2, particles, dewpoint and TVOCs using

WELL Dashboards Share IAQ Data

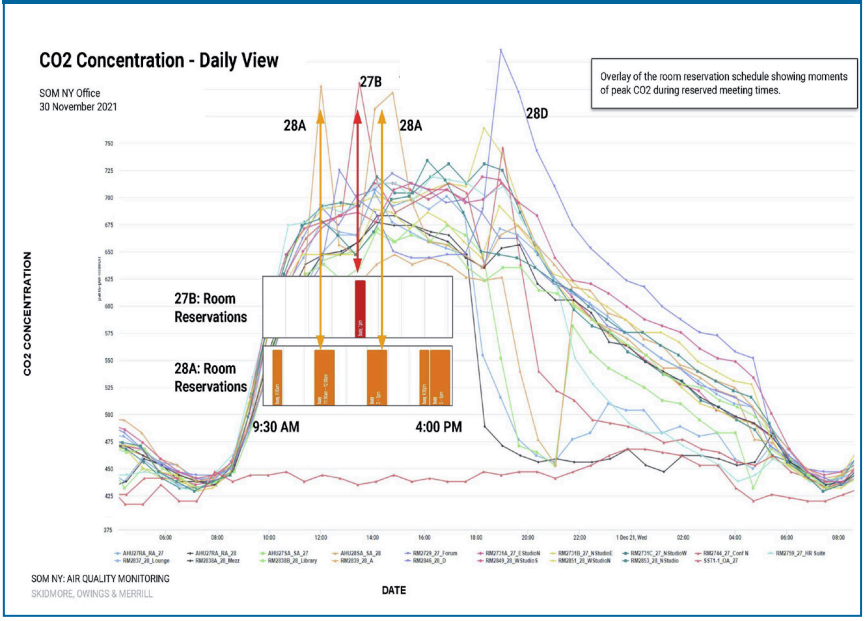
science-based healthy building parameters. SOM is attempting to earn WELL points for displaying air quality data for building occupants, using Aircuity's API to pull points into their specially designed WELL dashboards displayed in their lobby. Designed to meet a variety of clients' needs, Aircuity's API connection can be used to view healthy building data with "out of the box" analytics or can be used to bring Aircuity points into a client's existing dashboard as in SOM's use case. This provides a concise view of current building conditions and preserves bandwidth by using one connection versus many.

MAKING HEALTHY WORKPLACE DECISIONS

The Coronavirus pandemic struck amidst the headquarters redesign and when it came time to begin re-occupying the office in November of 2021, SOM used the Aircuity data to carefully track CO2 levels in response to changing occupancy conditions, work schedules, and conference room reservations.



Indoor Air Quality Data Used to Track CO2 Levels



"This data has helped us better understand the precise impacts of changing occupancy patterns in each space within our office. For example, as you can see, we were able to correlate changing CO2 levels in our conference rooms to the room reservations for a specific day. Going forward, we look forward to using this knowledge to design workspaces with the healthiest possible indoor air quality."

Charles Harris, Associate Architect
SOM

Having access to the air quality data and using it to make informed healthy workplace decisions during a critical time has impacted SOM's future design work. In addition, they are beginning to generate formal research ideas around indoor air quality data to create next generation healthy workspaces for clients.

ABOUT SOM

Skidmore, Owings & Merrill LLP (SOM) is one of the leading architecture, interior design, engineering, and urban planning firms in the world. Since its founding more than 80 years ago, SOM has earned a reputation for design excellence with a portfolio that includes some of the most important architectural accomplishments of the 20th and 21st centuries, and has been a leader in the research and development of specialized technologies, new processes and innovative ideas, many of which have had a palpable and lasting impact on the design profession and the physical environment.

ABOUT AIRCUITY

Aircuity is the 20-year leader in lowering carbon emissions and creating healthier indoor environments. 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 Norwood, MA, Aircuity's solutions have benefited organizations such as Google, Amazon, SUNY, Eli Lilly, Takeda, the University of Pennsylvania, and the University of California-Irvine. For additional information on the company and its solutions, please visit: www.aircuity.com.

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