

Breathing Better While Breathing Hard

Reduced energy consumption while improving indoor air quality

THE CHALLENGE

The University of Southern California is one of the world's leading private research universities and is proud of its over 44,000 students and 4,800 full-time faculty. USC is an anchor institution located in one of the biggest cities in the world.

Additionally, USC's acclaimed athletic program is home to 700 student athletes in 21 sports and includes 28 dedicated physicians and athletic trainers. IAQ becomes a primary concern for the athletes who are more prone to exposure of; skin and soft tissue infections (including MRSA), norovirus, influenza, mononucleosis, upper respiratory infections, allergies, asthma and migraines.

With this it's rich history and innovative outlook on the future, they understand the IAQ of their facilities is directly tied to keeping their students and faculty healthy.

THE SOLUTION

USC chose 5 areas within their training facilities for testing. They included the football training center, the weight room, the locker room and two open spaces on first and second floors of the John McKay Center.

BPI systems were installed in the new \$70 million, 100,00 sq ft athletic and academic facility of the John McKay Center that is known as a powerful symbol of the rich USC history.

THE RESULT

After installation of the AtmosAir systems, third party testing showed reductions in VOCs and PMs, which trigger allergies, asthma and other respiratory issues in athletes, reduced by up to 90%.

Continuous disinfection reduced athlete exposure to H1N1, MRSA, Norovirus and many other illness and infection causing bacteria and viruses.

"At USC, we believe performance both on and off the field is tied to IAQ and keeping our studentathletes healthy. BPI has helped our facilities in many ways."

- Russ Romano, Assistant Athletic Director, USC



Fast Facts

John McKay Center IAQ Contaminant Testing Data – PM2.5 particles

Area	Baseline Sampling- NO AtmosAir	AtmosAir Sampling- AtmosAir Off	Difference from Baseline AtmosAir (Performance)
Athletic Training	9 ug/m3	2 ug/m3	-78%
Locker Room	12 ug/m3	6 ug/m3	-50%
Weight Room	12 ug/m3	3 ug/m3	-75%
1st Floor	6 ug/m3	3 ug/m3	-50%
2nd Floor	5 ug/m3	5 ug/m3	unchanged

John McKay Center IAQ Contaminant Testing Data - TVOC

Area	Baseline Sampling- NO AtmosAir	AtmosAir Sampling- AtmosAir Off	Difference from Baseline AtmosAir (Performance)
Athletic Training	12 index	0 index	-100%
Locker Room	6 index	0 index	-100%
Weight Room	15 index	2 index	-87%
1st Floor	17 index	0 index	-100%
2nd Floor	14 index	0 index	-100%

Continuous disinfection reduced athlete exposure to H1N1, MRSA and Norovirus.