

# HEALTHCARE CASE STUDIES AND PROJECTS



## JOHNS HOPKINS HOSPITAL

AtmosAir helped reduce VOCs by over 45%, and reduced five particle size ranges.



## LBJ Hospital (TX)

AtmosAir helped reduce VOCs by over 65%, and reduced five particle size ranges.



## NYU LANGONE

Whitepaper written by NYU Langone Professor on AtmosAir Solutions



## METHODIST HOSPITAL (TX)

AtmosAir helped reduced major sewer gas odors and improve perceptual air quality.



# 2019 AtmosAir Project | Cedars-Sinai Biomanufacturing Center

Project Information: Cedars-Sinai is developing a state-of-the-art new biomanufacturing facility called the Cedar-Sinai Biomanufacturing Center (CBC). New air handling units will feature AtmosAir BPI.

Architect: HOK

MEP Consultant: AEI



**CEDARS-SINAI®**

Cedars-Sinai in Los Angeles,  
California



# Case Study | Virginia Commonwealth University Health

## SITUATION

VCU Health was experiencing indoor air quality issues caused by helicopters landing on the rooftop area.

## RESULTS

AtmosAir was installed in the Intensive Care Unit and Respiratory areas of the medical campus.

AtmosAir was able to reduce VOCs caused by the helicopter's diesel fumes by 30%.

No IAQ issues have been reported since the installation.



**VCU**Health

VCU Health System

# Case Study | Johns Hopkins Hospital



**Baltimore, MD**

## SITUATION

Johns Hopkins Hospital had 60k square feet of lab space with persistent indoor air quality issues.

Air quality complaints were made by employees.

4 AtmosAir 508FC systems were installed in the facility, as well as continuous air quality monitoring.

Graywolf detailed air sampling was completed.

## RESULTS

VOCs, particles, and perceptual air quality improved with AtmosAir installed.

*Readings taken outside Room 202 Pre AtmosAir Installation*

Element	CO2	Temp	RH	TVOC	Ozone	CO
<b>Avg. Values</b>	431 ppm	78 F	25%	183 ppb	0 ppm	.08 ppm
<b>Guidelines</b>	5000 ppm	68 to 78 F	30 to 60%	500 ppb	.10 ppm	9 ppm
Element	PM .03	PM .05	PM 1	PM 2.5	PM 5	PM 10
<b>Avg. Values</b>	N/A	1.31 ug/m3	1.70 ug/m3	2.10 ug/m3	2.23 ug/m3	2.51 ug/m3
<b>Guidelines</b>	N/A	N/A	N/A	35 ug/m3	N/A	150 ug/m3

*Readings taken outside Room 202 Post AtmosAir Installation*

Element	CO2	Temp	RH	TVOC	Ozone	CO
<b>Avg. Values</b>	968 ppm	76 F	24%	94 ppb	0 ppm	.79 ppm
<b>Guidelines</b>	5000 ppm	68 to 78 F	30 to 60%	500 ppb	.10 ppm	9 ppm
Element	PM .03	PM .05	PM 1	PM 2.5	PM 5	PM 10
<b>Avg. Values</b>	N/A	.887 ug.m3	1.18 ug/m3	1.43 ug/m3	1.49 ug/m3	1.65 ug/m3
<b>Guidelines</b>	N/A	N/A	N/A	35 ug/m3	N/A	150 ug/m3

## Johns Hopkins Hospital Results



**AtmosAir 508FC systems in Discharge of AHU**

# Case Study | Seattle Children's Hospital



## Seattle Children's Hospital Operating Rooms, Seattle, WA

### SITUATION

The hospital was forced to close its 14 main operating rooms after tests revealed traces of Aspergillus mold in several operating rooms and equipment storage rooms.

Mold led to one patient's death and five other infections.

### RESULT

AtmosAir continuous air quality treatment and monitoring was installed.

Other AHU modifications were made for building health.

The result was extremely positive with operating rooms being reopened and mold measured at 0 CFU.



# Case Project | North Shore LIJ South Oaks Hospital



## IMPLEMENTATION

The South Oaks Hospital wanted a solution to stop the spread of pathogens and bacteria throughout the building and reduce bio effluents and odors.

AtmosAir was installed throughout the facility.

The technology was successful in its objective and reduced particle counts and TVOC levels.

AtmosAir is now installed in 3 of their buildings.

