SUCCESS STORY

Purafil Provides Clean Air to a Children's Hospital

ATLANTA, GEORGIA

A major children's hospital in Atlanta, Georgia was having issues with the air quality coming into their building. Doctors and patients were complaining about strong diesel odors while in the Operating Rooms (OR), and the hospital places a high priority on providing comfort. The source of the odors was identified as the air intake system located on the roof near the hospital helipads. Because time is critical, helicopters generally do not shut off during transport, continuing to emit exhaust fumes for the duration of the time they are on the helipads. The nearby air intake was pulling the helicopter exhaust fumes into the building HVAC system, and the OR suite.

The existing filtration system utilized by the hospital was not effectively filtering the harmful and unpleasant diesel exhaust fumes (diesel oil has more than 30 components that can cause cancer, according to the International Agency for Research on Cancer) or the other gaseous contamination from the busy city environment. **The hospital's contractor recommended a Purafil solution based on their experience and Purafil's proven air quality management solutions for this application.** The children's hospital brought in Purafil and local representative AirEnergy, Inc. to help.

Upon evaluation of the problem, Purafil recommended integrating side and front access scrubbers to the hospital's existing HVAC systems along with PK-18 modules containing Purafil's CP select media. The CP select media blend is designed to remove sulfur oxides and other odorous pollutants from makeup air that are produced by automobiles and other sources of fossil fuel combustion like helicopters. The Purafil solution was installed with positive results. **There has been no complaints about odor quality since the installation and the children's hospital has remained a valued customer with superior air quality for over 10 consecutive years.**

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SUCCESS STORY

Protecting Life-Saving Medical Equipment

DELHI, INDIA

Hospitals provide life-saving scans, surgeries and more that rely on sensitive technology and medical equipment. A hospital simply can't afford equipment failure. A large, international diagnostic imaging manufacturer knows this, which is why they worked with Purafil to test for and remedy any corrosion problems in hospitals in India.

To diagnose that corrosion was the problem in these hospitals, Purafil used Corrosion Classification Coupons (CCC). These are silver and copper bands that react with contaminants in the air to determine the level of corrosion. In both hospitals, corrosion levels were severe for both silver and copper as per ISA 71.04-2013 standard. In this environment, only specially designed electronics and equipment can survive.

The hospital knew they had to take immediate action as their machines were critical to patient care. They couldn't afford downtime and wanted to ensure that their reputation for high-quality care stayed intact.

In the first hospital, Purafil installed PuraGRID and multi-stage filters in the CT gantry room to help combat corrosion. As a result, corrosion levels dropped from GX levels to G1 levels, with an overall reduction in corrosion of 97%. In the second hospital, we added a multi-stage filter with PuraGRID filters to further reduce levels. This led to a 90% overall reduction in corrosion.

Through our CCC analysis and Purafil solution, we were able to help significantly reduce the corrosion levels in critical rooms in both hospitals. This allowed the hospitals to continue providing life-saving services. Because of the successes seen in these hospitals, Purafil has provided solutions to even more hospitals throughout India.

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