

CASE STUDY

HEALTHCARE SERIES

Barnes-Jewish Hospital engages AQUIS to refurbish critical ICU air handler

Challenge

Barnes Jewish Hospital is a not-for-profit 1,300+ bed facility located in the heart of St. Louis, Missouri, and boasts a consecutive 21-year run as being among the Top Hospitals in the U.S., according to U.S. News & World Report.

At issue, an Air Handling Unit (AHU) serving two Intensive Care Units had become worn with age and increasingly problematic. The unit was leaking, the chamber floor was rusted and corroded, and due to its location, replacement wasn't an option. A solution was needed to completely rebuild the AHU from the inside out to restore both its operational and structural integrity, but with minimal down-time and without the use of sheet metal. Since it served two Intensive Care Units, it was also essential that the solution complied with Health & Safety and Infection Control in addition to the requirement of the Joint Commission.



BEFORE

"I was familiar with the AQUIS refurbishment process and needed to completely retrofit and refurbish a critical Air Handling Unit. After installing new cooling coils, controls and dampers, I hired AQUIS to refurbish the entire unit, including the return fans. The installation was detailed, very professional, and the overall quality was excellent. Following the installation, I invited personnel from Health & Safety and Infection Control to inspect the unit, and the collective feedback was met with the same response. We are looking forward to working with AQUIS again in the near future to refurbish six more Air Handling Units."

TOM KNIGHT - PLANT ENGINEER

Solution

AQUIS completely refurbished this critical Air Handling Unit with its unique composite coating system, thereby eliminating the need to use any sheet metal.

- Chamber floors were sealed with AQUIS' patented CPR-SL composite system, which halts corrosion, restores structure and stops leaks.
- Chamber walls, ceilings, and fan housings were sealed with a highly effective antimicrobial coating, effectively preventing the spread of odor causing mold and bacteria.
- The system's smooth, antimicrobial surface is easy to clean and enhances indoor air quality by way of its resistance to growth of pathogenic biological agents.
- The installation was completed quickly and efficiently, and with minimal downtime and without VOC's or detectable odors.



AFTER

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