



# HVAC RESTORATION AT AN ORLANDO CHILDREN'S HOSPITAL

Orlando, Florida

## The Challenge:

When an Orlando children's hospital needed to breathe new life into its aging HVAC infrastructure, the stakes could not have been higher. The facility required a massive, complex overhaul to replace five critical air handler units (AHUs) while navigating strict engineering demands, temporary spot cooling, and the need to minimize facility downtime. We took on this immense challenge to ensure a safe, comfortable, and healthy environment for the young patients and dedicated staff. By executing a seamless mechanical restoration under strict constraints, we proved that even the most demanding commercial environments can undergo massive upgrades without compromising critical care.



AHU Before



AHU After

## The Solution:

WTI PureAir evaluated the hospital's air handler units and identified a fan array retrofit as the ideal solution to restore the system without disrupting daily operations. We replaced the outdated blower with a series of smaller Q-PAC fans, creating the essential redundancy required for critical healthcare environments. This adaptive fan array ensures continuous operation because the remaining fans automatically compensate if a single unit goes offline.

To promote lasting health and safety, we applied an anti-microbial and corrosion-resistant coating to the metal drain pans and unit exteriors. Ultimately, this comprehensive HVAC restoration upgraded the equipment to better-than-new condition while saving the hospital from significant downtime and substantial capital expenses.



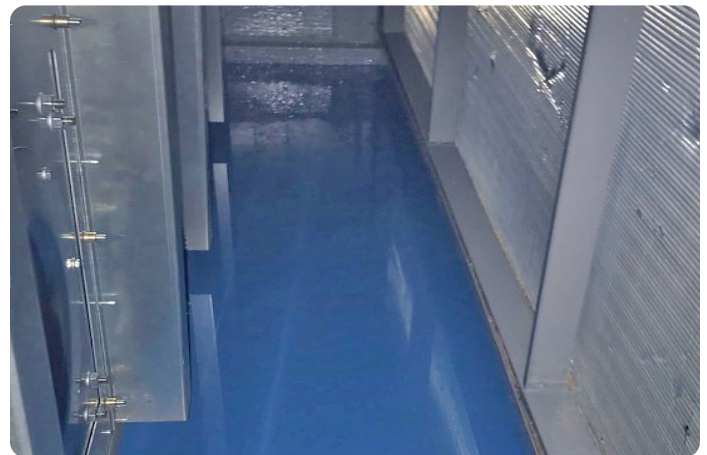
AHU Interior Prep



Interior Plenum After Multicoat Siloxane Coating



HVAC Insulation System



Drain Pan Protection