



Supporting Patient Healing with Quiet Mechanical Systems at AdventHealth Orlando

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OVERVIEW

AdventHealth Orlando is a major healthcare campus that operates continuously, supporting patient care, imaging, laboratories, and clinical services. Quiet mechanical systems are essential to patient recovery, staff communication, and compliance with stringent healthcare acoustic standards.

Hospitals contain extensive HVAC ductwork, chilled water piping, and mechanical rooms that operate 24/7. Without proper acoustic treatment, noise from these systems can migrate into patient rooms, imaging suites, and sensitive medical environments, impacting both comfort and care outcomes.

CHALLENGES

Mechanical noise from HVAC ductwork, pumps, valves, and piping created elevated background noise levels in patient areas and clinical spaces. The hospital required a solution that addressed both airborne and structure-borne noise while also providing thermal insulation and condensation control. Fire safety, durability, and minimal installation disruption were also critical requirements.

SOLUTION:

All Noise Control applied ANC-B10LAG2 acoustic pipe lagging to HVAC ductwork, mechanical piping, pumps, valves, and duct transitions within mechanical rooms and service corridors. The system's two-inch quilted fiberglass pipe lagging absorber effectively reduces vibration and structure-borne noise, while the loaded vinyl noise barrier blocks airborne sound transmission through ducts and pipes.

With a thermal R-value of 9, ANC-B10LAG2 delivers excellent thermal pipe insulation, preventing condensation on chilled water systems and improving energy efficiency across hot and cold piping. The acoustical lagging is ASTM E84 Class 1 fire-rated, moisture-resistant, and designed for fast wrapping over existing systems, making it ideal for healthcare facilities that cannot tolerate extended downtime.

RESULTS:

- Reduced mechanical noise in patient rooms and imaging areas
- Improved compliance with healthcare NC requirements
- Enhanced condensation control and thermal performance
- Long-term HVAC duct insulation wrap solution for hospitals