

Long Island Healthcare Facility

Installation of Entire Cooling System

Healthcare



THE OPPORTUNITY

A brand new laboratory facility was being constructed and new mechanical equipment was required. Everything from new chillers, boilers, fan coil units, & custom AHUs, which also serve specialty lab equipment such as snorkels & fume hoods.

THE PROJECT

The size and complexity of the project had to be managed within narrow project timelines, as proper air quality and temperature is vital for safe healthcare operations. The new cooling system needed to handle over 400 tons of cooling and 88,000 CFM of exhaust air to effectively cool the facility, while meeting numerous specialty requirements for critical equipment rooms.

This project consisted of 3 days of rigging and assembling AHUs and chillers.

THE OUTCOME

Donnelly saved the client costs by finishing the project under budget and within established timelines. 3D AutoCAD drafting and BIM modeling ensured successful logistics planning and collaboration between construction trades. All equipment was successfully installed and commissioned, including specialty systems for critical equipment rooms. This client was able to minimize disruptions to their daily operations and maintain a safe, healthy environment for patients.

Project Role

- HVAC Construction

Technical Scope

- 3D Building Information Modeling (BIM) modeling
- 2x420-ton air cooled chillers
- New boiler and chiller plant
- Install over 100 VAVs with hot water reheat coils
- (82) exhaust valves and fume hoods
- (8) fan coil units
- Specialty snorkels

Challenges

- Complex project as proper air quality and temperature is vital for safe healthcare operations

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