



CASE STUDY

Texas Children's Hospital Replacement of Air-Handling Units EB-1 and EB-2 HOUSTON, TX

BIOTECH/HEALTHCARE

HOSPITALS



OPERATING COMPANY:
Gowan, Inc.

CLIENT:
Texas Children's Hospital

GENERAL CONTRACTOR:
W.S. Bellows

MECHANICAL ENGINEER:
Burns Delatte & McCoy, Inc.

SCHEDULE:
End of February 2012 to mid-March 2012

CONTRACT AMOUNT:
\$971,000

VALUE DELIVERED

Safe, professional removal and replacement of two air-handling units; minimal disruption of normal day-to-day operations of staff, patients, and visitors; air-handling units custom built to accommodate unique location; temporary air-handling capacity installed to maintain comfortable environment while permanent units were put in; 24-hour commitment to getting the job done as soon as possible; more comfortable conditions in key facility spaces.

CLIENT OBJECTIVES

To maximize airflow to radiology, magnetic resonance imaging, multiple research laboratories, and other vital operational areas.

SCOPE OF SERVICES

Given its extensive healthcare experience, Gowan was the logical choice to replace this client's outdated air-handling units with new more modern versions that more effectively maximize comfort in key spaces. The company's scope of work required removing two 40-year-old air-handling units, including the largest in the hospital, and installing replacement units that would achieve the client's objectives. The company had to build one of these replacement units around an existing building column. The unit consisted of individual panels, fans, a 125-horsepower motor, chilled water coils, and steam coils. Gowan also put in a modular production air-handling unit with a 30-horsepower motor.

TECHNICAL SOLUTIONS
Relationships
Quality Service
VALUE ENGINEERING
Experience
Project Schedule & Coordination
EXPERTISE

- Design/Build
- Bid Build
- New Construction
- Retrofit/Renovation
- Electrical Construction
- Mechanical Construction
- Facilities Services
- Consulting Services

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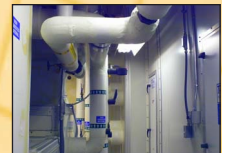
HOUSTON, TX

SOLUTIONS

This project had to be completed while maintaining airflow and pressurization within the functioning 24/7/365 hospital environment. To achieve this, Gowan installed two temporary direct expansion cooling units, a temporary chilled water unit, two temporary electric heating units, two temporary return air fans, and 30 temporary spot cooling units in critical areas. This equipment maintained a comfortable environment in the facility's occupied spaces while Gowan removed and replaced the permanent air-handling units. In addition, to reduce disruption, Gowan delivered the project quickly by working in shifts 24 hours a day until work was completed.

BACKGROUND

For nearly 60 years, Texas Children's Hospital has offered health and hope to children and their families. By being pioneers in the pediatric medical field and by expanding their capabilities with the new Neurological Research Institute, the Pavilion for Women, and the Pediatrics building, the hospital has been cited year after year as one of the nation's top centers for children's healthcare.



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