



## PROJECT SUMMARY:

# Delnor AHU Replacement

**MECHANICAL, INC.**  
Email: [maindesk@mechinc.com](mailto:maindesk@mechinc.com)

**Freeport Office**  
2279 Yellow Creek Road  
PO Box 690  
Freeport, IL 61032  
Phone: (815) 235-1955  
Fax: (815) 235-1940

**Hillside Office**  
225 Fencil Lane  
Hillside, IL 60162  
Phone: 708-449-8080  
Fax: 708-449-0378

**Fox Lake Office**  
135 Sayton Rd, Suite 100  
Fox Lake, IL 60020  
Phone: (847) 973-1123  
Fax: (847) 973-1169

**Customer:** Delnor Hospital  
**Contract Amount:** \$425,000  
**Location:** Geneva, IL

Mechanical achieved success in the Spring of 2007 at Delnor Community Hospital in Geneva, IL. The project entailed removal and replacement of an existing Air Handling Unit (AHU) for the surgical suite of the hospital.

Mechanical was the prime contractor for this project with heating, chilled water, steam, and condensate piping included in their scope. Subcontractors included electrical, fire alarm, insulation, test and balance, temperature controls, and ventilation.

The foreman and his team were faced with critical timing on this project. Delnor allowed a nine day shutdown for work to be completed, during which, surgeries were not able to be scheduled. Mechanical worked as a composite crew with the vent subcontractor for demolition and removal of the existing AHU beginning on Friday, April 20<sup>th</sup>. All removal and replacement work was to be completed on the 28<sup>th</sup> to allow for commissioning on the 29<sup>th</sup>. Surgeries were scheduled to begin again on April 30<sup>th</sup>, making it crucial for the new AHU to be operational by then.

After being awarded the contract on February 28, 2007, preparation and planning began immediately to ensure that as much preparatory work as possible was completed prior to shutdown. In March, the foreman made a site visit to the manufacturer's plant to review construction and assembly of the unit in hopes of increasing efficiency in the field.

During pre-shutdown work of the piping systems it was discovered that some isolation valves to the existing AHU were not holding. Replacing the valves would require a shutdown to the piping systems for a major portion of the hospital. After researching the system, however, it was determined that just a portion of the piping system could be frozen to minimize the impact on the hospital.

Mechanical's on site crew was required to be on their toes for assembly and installation of the new AHU. Working as a composite crew with the vent subcontractor, the unit was 100% field assembled with the largest pieces having to fit through a normal sized door. The base of the unit had to be set in place using a crane through existing louvers. This work could not commence until the existing unit was removed, thus no preassembly of the new AHU could be accomplished prior to shutdown. Once the unit was assembled, work on the duct, piping, electrical, and controls systems was able to begin.

To meet its deadline, Mechanical worked its crews two-twelve hour shifts during the duration of the shutdown. Thanks to their hard work and dedication Mechanical has built value and trust with Delnor Hospital.

