

## Thermosystems Project Profile: **OSF ST. JOSEPH MEDICAL CENTER** Bloomington, IL - November 2025

"This replacement air handling unit project required a critical path to installation. Design, schedules, implementation, and reliability were considered.

Based on previous experience of replacing the existing AHU'S with new equipment, we had confidence in a reliable solution and valued partner.

On-site knockdown AHU construction played a valuable role in resolving a difficult equipment replacement that provided the facility with additional capacity."

— OSF St. Joseph Medical Center Contact



### **Prioritizing Reliability**

When an old air handling unit was no longer supporting the facility well, St. Joseph Medical Center came to our team with a unique challenge: a new AHU in a tight mechanical room where access was limited and replacing the existing equipment was difficult. They also needed more capacity to deliver consistent, 100% outside air.

### **An On-Site Assembly**

Tight space constraints called for a different approach: on-site assembly.

Our team designed a knocked-down AHU, allowing all components and materials to fit through existing doors and elevators leading to the mechanical room. A mobile Air Flow Equipment AHU kept the facility operational, giving the mechanical team the time needed to complete demolition and installation without interrupting medical operations.

#### **THE RESULT:**

A specialized layout for an AHU with added capacity and energy recovery that reduced mechanical load for their 100% outside air AHU.

### **Equipment Installed**



Air Flow Equipment, Inc.  
Custom Air Handling Unit with  
SEMCO Energy Recovery  
Enthalpy Wheel


### **Key Elements of Design**


To provide St. Joseph Medical Center with long-term AHU reliability, every aspect of the solution was designed with intention.



- Working within the existing space and incorporating temporary solutions
- Assembling AHU in knocked-down sections to avoid structural modifications
- Incorporating energy recovery to reduce the mechanical load on the system and save the hospital energy costs

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 (630) 693 - 0930

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