

MAKING BUILDINGS BETTER



CANCER TREATMENT CENTERS OF AMERICA - MIDWESTERN REGIONAL MEDICAL CENTER

Owner: Cancer Treatment Centers of America

Project Type: Comprehensive Turnkey

Customer Challenges:

MRMC had a direct-fired absorption chiller in need of replacement. The decision was made based on improved energy operational saving to replace with Trane CVHE electrical Centrifugal chiller. The challenge was to find a way to replace the existing chiller located on the 5th floor with out disrupting hospital operations. Included in the project was an upgrade to the electrical power system. The transformer which served the emergency room and approximately a third of the hospital's patient rooms had to be upgraded.

Trane Solutions to the Challenges of the Project:

Trane's CenTraVac electric centrifugal was more efficient than the absorption machine it replaced. In addition to that, it gave the hospital one of the most reliable chillers on the market. However, before the install, the local power utility, Commonwealth Edison had to upgrade the building's transformer and switchgear. The building's power infrastructure was never sized for an electric machine and had to be updated. During the installation, the facility had to be run on backup generator to allow ComEd to complete its work. The hospital still had to be operational to meet the patients' health care needs. In addition, the replacement chiller had to fit into a tight spot on the building's fifth floor. To accomplish this, Trane's team had to hire a crane to lift the machine through a disassembled wall of the equipment room on the 5th floor. Trane was able to provide all of the engineering, project development, project and site management, startup, commissioning, and warranty for this project.

General Description of the Building:

Midwestern Regional Medical Center started as a family practice facility in the 1950s. Since then the Medical Center has grown to become one of the premier providers of cancer care in the world. The facility is home to more than one hundred physicians covering many medical specialties.

Trane Equipment/Controls:

CenTraVac centrifugal chiller, Tracer Summit Building Automation System

