

Neighborhood Resource Center HVAC Improvements Kansas City, Kansas

Unified Government of Wyandotte County / Kansas City, Kansas



The Neighborhood Resource Center (NRC) is located within the Indian Springs Mall. The NRC serves as office space for various City departments including a satellite office for the Police Department. Due to the internal heat load from personnel and office equipment, the NRC requires cooling during all seasons of the year. Unfortunately, due to a high vacancy rate in the remainder of the mall, the mall owner was unwilling to provide chilled water during cooler seasons of the year and on weekends. The Unified Government requested **DRG** investigate the problem and come up with a solution.

Heating ventilation and air conditioning is provided to the NRC office space by seven air handling units with each unit having a separate heating and cooling coil. The coils are supplied hot water and chilled water through a central four-pipe hydronic system serving the entire mall.

DRG's solution to the problem was to install a 40-ton capacity packaged air cooled chiller and remote indoor evaporator barrel. New chilled water piping was then tied into the existing chilled water supply and return piping at each of the seven air handling units between the units and their respective isolation valves. This allowed the NRC to utilize the mall's central system during the seasons it was providing chilled water, and then have the ability to provide its own chilled water during the cooler months when the malls central chilled water system was not operating.



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