



ENERGY EFFICIENCY CASE STUDY SUMMARY:

CLIENT: Kindred Healthcare San Antonio, TX

PROJECT BACKGROUND

Kindred's 4-story hospital in San Antonio had air handlers on the roof with failing insulation on the duct work. These systems provide comfort cooling for the patient rooms and treatment areas. Due to the failed insulation, the units were unable to keep up with the cooling requirements during high temp conditions and the cost of cooling was extremely high.

SOLUTION

Optimize was contracted to remove the failed insulation and to coat the duct work with **Opty Solar Shield**, a radiant barrier coating to provide the insulation needs for the duct system.

RESULTS

The ducts have been sealed from leaks. Failed insulation was removed and a 20 mil layer of **Opty Solar Shield** used to coat the ducts. The exterior temperature of the ducts were reduced over 40°F. The ducts previously had an internal temperature loss of 14°F and now they are down to a 4°F loss through the duct system. This provides them with the highest level of cooling capacity. The cost of cooling will be reduced significantly due to better cooling capacity and the coated duct system.

Heating Ducts, BEFORE



Heating Ducts, AFTER

