



TriStar Skyline
Madison offers
innovative treatment
programs for
behavioral and
chemical dependency.

Tennessee Healing Environment Achieves Significant Energy Savings

DAIKIN DESIGN:

The TriStar Skyline Madison Campus is nationally recognized for its innovative treatment programs for behavioral and chemical dependency for patients ranging from adolescents to seniors to active duty soldiers. The HCA Corporate Engineering Team saw an opportunity to use an innovative technology to contribute to the quality of the facility by replacing an inefficient chiller with modern, magnetic bearing technology.

A Daikin 700-ton Magnitude® WME chiller was selected by the HCA Corporate Engineering Team, working with Mechanical Resource Group, the Daikin representative in Nashville, and the Daikin National Accounts group, on the basis of energy efficiency and maintenance cost savings. The magnetic bearing compressor in the Magnitude chiller eliminates the oil management system and associated maintenance of typical centrifugal chillers.



When it comes to saving energy, Magnitude is up to 40% more efficient than standard centrifugal chillers.

OUTCOME:

HCA Healthcare earned a \$30,900 rebate check from the Tennessee Valley Authority (TVA), the electrical utility, based on their energy savings with the Magnitude chiller's high efficiency in the Skyline Medical Center. HCA is so pleased with the chiller's performance that Mechanical Resource Group has used the facility as a showcase for other engineers in the community.



NAME:

TriStar Skyline Madison Campus

LOCATION:

Madison, TN, USA



FACILITY SIZE:

458 beds on two campuses



ISSUE:

Use an innovative technology to contribute to the quality of the facility by replacing an inefficient chiller



SOLUTION:

(1) 700-ton Daikin Magnitude® magnetic bearing chiller