



CASE STUDY

Office Building

Facility at a glance

Name

One Verizon Way

Location

Thousand Oaks, CA USA

Facility size

426,000 ft² facility

Issue

Increased energy efficiency with HVAC improvements

Solution

Retrofit (2) existing 325-ton centrifugal chillers and a 109-ton centrifugal chiller with MicroTech[®] Control Panels and CSC panels

One Verizon Way earns the Energy Star award from the United States Department of Energy and the Environmental Protection Agency.

Daikin MicroTech[®] Controls and Chiller Contribute to Energy Star Building's Energy Efficiency

Nationally recognized for a 30 percent reduction in energy use, the One Verizon Way building in Thousand Oaks was the first in California to retrofit old-style chillers with Daikin MicroTech Control Panels and a Chiller System Control (CSC) panel. The Daikin controls, along with other HVAC improvements, contributed to the building's increased energy efficiency, earning it the Energy Star award from the United States Department of Energy and the Environmental Protection Agency.

Daikin Service retrofitted two existing 325-ton centrifugal chillers and one 109-ton centrifugal chiller with MicroTech Control Panels and CSC panels, allowing the chillers to run at multiple-stages based on demand. Efficiency is increased by operating the system with the least amount of chillers on-line and at near-full capacity. In addition, MicroTech's flexible design allowed for easy tie-in to the system operators' personal computer, allowing controls to be monitored on-site or remotely.

To further reduce energy costs, Verizon installed a Daikin WHR050 water-cooled dual compressor reciprocating chiller to cool the building's computer data center. The WHR050 reduces energy costs by running at reduced loads. On nights and weekends, year round, the chiller handles eight chilled water fan coil systems, including the data center, while running at only 25 percent of full load.

The Daikin WHR050, which is factory assembled with MicroTech controls, integrates into the building's existing chilled water loop and backup condenser pump. Since WHR chillers are completely factory assembled, piped, wired and shipped in one piece, and ready for water piping and wiring connection, installation was cost effective and easy.

Nationwide, 235 buildings have received an Energy Star award. To receive the award, buildings must be in the top 25 percent of comparable buildings nationwide in terms of energy efficiency. The One Verizon Way building scored 82 percent on a scale of 100 and is the only telecommunications company to win this award.

Daikin Applied delivers engineered, flexible solutions for commercial, industrial and institutional HVAC requirements with reliable products, knowledgeable applications expertise and responsive support. Daikin products and services are provided through a worldwide network of dedicated sales and service offices.

For more information or the name of your local Daikin representative, call 1-800-432-1342 or visit www.DaikinApplied.com.