



Daikin Service Group's rental chillers allow mission-critical facilities to stay operational during HVAC upgrades

CASE STUDY

Data Center

Facility at a glance

Name

Waste Management Data Center

Location

Austin, TX USA

Facility size

40,385 ft² facility

Issue

2N redundant chiller capacity to support live data center during replacement

Solution

Temporary Daikin Applied 300-ton AGS air cooled chiller

Daikin Applied Rental Chiller Supports Mission-critical Operations for Waste Management During Upgrade

Issues

A major upgrade to the infrastructure to Waste Management Inc.'s critical production data center in Austin, Texas necessitated the replacement of two 400-ton chillers, concurrent with other HVAC and mechanical upgrades. Daikin Applied supplied two latest-generation 400-ton Pathfinder® chillers to replace the 2002-built facility's original chillers. In order to keep operations live during the two-phased replacement process and meet 2N redundancy requirements, Daikin Applied also provided a temporary chiller.

Solution

A trailer-mounted Daikin Applied 300-ton AGS air cooled chiller was temporarily installed at one of the building's dock bays for the duration of the upgrade in summer 2014. "The temporary cooling was seamless," says Carlton Griffis, senior project manager with Alcatex, Inc. data center design-build specialist. "The Daikin Applied Service Group team attached the unit to an emergency coupler location so the water loop could be brought online seamlessly."

The chiller replacements were staged over June and July 2014. "It was particularly critical to have the standby chiller available during the decommissioning process of the first original chiller when the first of two new chillers was installed," says Kenneth Morgenroth, service sales representative with Daikin Applied in San Antonio who spearheaded the chiller replacement project.

Adds Randy Zadow, product manager for rental chillers, Daikin Applied: "Having the rental chiller on site gave the customer a comfort level in the event that something should go wrong, their operations would continue."

Outcome

Ultimately, the standby chiller was not put into active service and contributed to zero downtime during the multi-phased infrastructure upgrade. Brian Kirkpatrick, director of infrastructure operations at Waste Management, credits the planning and communication of the entire project team, noting it's unusual to stay live during a complex chiller change-out. "It's a testament to our entire team from our Waste Management staff, the Alcatex team and the Daikin Applied Service Group that the whole project was successfully completed with an operating data center," he concludes.



Waste Management data center facility, Austin, Texas