

Project Profile

# Bayfront Medical Center

St. Petersburg, FL



## Rental chiller offers quick solution: time to make the right decision, after catastrophic chiller failure

Bayfront Medical Center is a private, not-for-profit health system that has been serving St. Petersburg and West Central Florida for more than a century. Through its 600 physicians and more than 2,500 team members, Bayfront offers medical excellence in cardiac care, neurosciences, obstetrics, gynecology, critical care, emergency care, rehabilitation, orthopaedics, sports medicine, cancer care and surgery. Furthermore, it is the only trauma center in Pinellas County.

Metasys® building management systems, YORK® chillers and reliable fire alarm systems maintained by Johnson Controls have been providing a comfortable, safe and sustainable environment for several decades at Bayfront Medical Center, and more recently at the Cancer Center and Family Health Center. When one of the Medical Center's four chillers suffered a catastrophic failure without warning, Bayfront turned to Johnson Controls for immediate assistance. Proper cooling of the 750,000 sq. ft. facility requires all four units to be fully functioning, and within 48 hours Johnson Controls delivered a solution.

"The rental chiller solution offered by Johnson Controls allowed us to continue our operations without interruption, and take the necessary time to thoroughly research our options and make the right decision about the future of our central plant operations."

**BILL CHRISTIE**  
**DIRECTOR OF FACILITIES**  
**BAYFRONT MEDICAL CENTER**

## Challenges

- With the sudden failure of a 500-ton chiller in June 2009, Bayfront Medical Center had to find a quick replacement to keep the chiller plant at the 480-bed facility fully operational and maintain a comfortable environment for patients and staff.
- Bayfront's capital budget was committed to other hospital activities.
- Hospital officials needed time to evaluate options and make an informed decision about the future of the central plant, yet could not tolerate being without a chiller for an extended period of time.

## Johnson Controls Solutions

- Within 48 hours of the initial emergency call, a 440-ton Johnson Controls Rental Solutions chiller was onsite and installed, and normal operations of the plant were able to resume.
- Rental fees are paid out of the operational budget, not as a capital expenditure.
- Having their immediate needs met with a rental chiller, Bayfront was given the time to thoroughly research their options and decided to replace the failed chiller in November 2010 with a 500-ton YORK YK unit. In addition, the new chiller and an existing 800-ton unit were both outfitted with OptiSpeed™ variable-speed drives – a technology that provides improved energy efficiency to the units.

## Results

- Full chiller capacity was only affected for 48 hours due to the quick response from Johnson Controls and the installation of the rental chiller.
- Cooling operations quickly restored without impact to Bayfront's capital budget.
- Hospital operations continued to run smoothly throughout the rental duration, and the new chiller is reducing utility costs. The OptiSpeed variable-speed drive offers reductions in chiller energy consumption and carbon dioxide emissions up to 30 percent annually. Other benefits include quieter operation, reduced wear, and chiller restart in as little as three minutes.

## About Johnson Controls Rental Solutions

Johnson Controls offers a complete line of chiller, power generator, and air conditioner/air handler rentals through equipment depots located throughout North America. Emergency response is available 24 hours a day, 365 days a year, from a network of more than 150 branch offices.

Johnson Controls provides a turnkey solution for chiller and other equipment rentals, featuring: (1) initial diagnosis of situation, (2) commissioning of equipment, (3) maintenance of equipment during the rental period, and (4) decommissioning and removal of equipment. A variety of rental agreements are available, including a rental-to-ownership program.



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