

Union Hospital

Turnkey Chiller Replacement Project • Dover, OH

Gardiner Trane's planning & responsiveness help "build a more perfect Union."

Union Hospital is located in Dover, Ohio. The institution celebrated its 100th anniversary in 2006. The hospital has a bed capacity of 156 and employs more than 900 people.

Challenge

Union Hospital had an aging HVAC infrastructure from the hospital's original construction in the 1950s. As the hospital has grown and developed as a health care institution, improvements have been needed to ensure that the facilities meet the hospital's standards for patient care and satisfaction. Over a ten-year period, Gardiner Trane has worked with Union's staff on a plan to gradually replace the hospital's chillers and 14 air handlers, as well as added a state-of-the-art building automation system. In the spring of 2005, however, the remaining converted R-123 chiller failed unexpectedly, prompting a decision to replace on an emergency basis. Making matters even more challenging, the production time on a large chiller can often run approximately 12 weeks. With summer approaching fast, Union Hospital called upon Gardiner Trane for help.

Solution

After years of successful planned upgrade projects, including critical surgery suite air handlers and controls, Gardiner Trane utilized its technical expertise and resources to mobilize the emergency chiller replacement without compromising the hospital's long-term plan. A Trane Earthwise CenTraVac centrifugal chiller was selected, based on its unmatched energy efficiency & guaranteed low emissions, its environmentally responsible R-123 refrigerant, and its proven reliability and long-term performance. Fortunately, a chiller meeting the hospital's needs was in production and would meet the time frame requirements of the project. This was critical, as the project would need to be completed on an aggressively tight time frame with minimal impact on patient care.



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When formed in 1906, Union Hospital's purpose was to service the health care needs of its rural surrounding communities. Their bed availability at its inception was 16 patients. Today, Union Hospital has grown to a full-service health care facility that enjoys remarkable financial stability, enabling them to keep their building facilities in excellent working condition.

Building Specifications

Building Type

Health Care Facility

Constructed

1922

Last Major Renovation: 2003

Facility Size

300,000 sq. Ft.

4 Stories

Property Owner & Manager

Union Hospital Association

Union Hospital

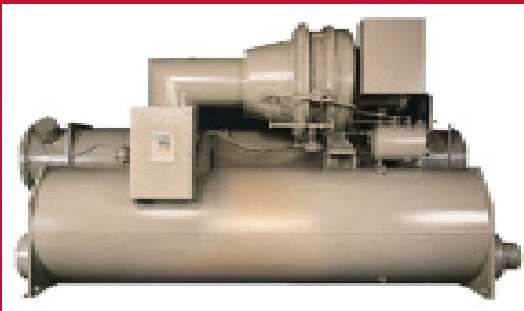
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Results

Approximately four weeks after the chiller failure and well before the start of one of the hottest summers on record in Northeast Ohio, Union Hospital's new chiller was fully installed, operating, and reliably delivering chilled water. Gardiner Trane's responsiveness, attention to detail, and ability to creatively meet a customer's challenging situation allowed Union Hospital to maintain a comfortable environment despite a major equipment failure. Better yet, the hospital is already seeing the cost-saving benefits of operating the most efficient chiller on the market today and is continuing to pro actively plan for the facility's future. With the planning and foresight of Jake Mast, Director of Environmental Services, and some help from Gardiner Trane, Union Hospital serves as a showcase of what great equipment, service, and responsiveness can achieve.

“Over the years we have been very successful with the mechanical and HVAC infrastructure upgrades at Union Hospital. The partnership we have enjoyed with Gardiner Trane has been the key to that success story.”

Jake Mast, Director of Environmental Services



Systems Overview

- Trane 410-ton CVHF Chiller ('05)
- Trane 500-ton CVHE Chiller ('94)
- Tracer Summit Automation System
- 2 Trane Intellipak Rooftop Units
- 14 Air Handlers

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*For more information on Gardiner Trane Solutions, visit
www.gardinertrane.com or contact us at 440.248.3400*