



Fact Sheet about Gateway Medical Center

Clarksville Hospital Optimized Environment of Care

What's Happening

As part of events that Trane Commercial Systems is hosting in Clarksville, Tenn., to showcase unprecedented new product introductions and early compliance with conversion to R-410A refrigerant, media is invited to visit Gateway Medical Center. When building the new facility in 2006, Gateway Medical Center administrators equipped the facility with infrastructure systems manufactured by Trane.

The visit will provide an opportunity to learn more about how the selected comfort systems work to optimize indoor air quality for staff and patients while also increasing operational and energy efficiency for the building. Media will have access to hospital administrators.

About the Hospital

Gateway Medical Center is a 490,000-square-foot, 270-bed, fully accredited, acute care facility that serves Upper Middle Tennessee and South Central Kentucky. The facility was completed in 2008. It is located at:

651 Dunlop Lane

Clarksville, Tenn. 37040

Gateway Medical Center's majority partner is Community Health Systems, owner of 125 hospitals nationwide.

Environment of Care

A well-designed and -maintained hospital environment can improve quality of care, productivity and employee satisfaction. In fact, in a review of more than 600 articles, researchers found a direct link between the physical environment and patient and staff outcomes¹.

Research shows the impact of a range of design characteristics: reduced noise, upgraded lighting, better ventilation, supportive workplaces and improved layouts. These changes can help decrease errors, reduce stress, lower pain, reduce drug use and enhance sleep.

Comfort Systems

Gateway Medical Center's infrastructure systems were selected to optimize the facility's environment of care while maximizing energy efficiencies and building performance.

Systems include:

- Centrifugal water chillers to optimize HVAC system efficiency and reliability and to increase patient and employee comfort.
- Central station indoor air handling units featuring variable speed drives to increase efficiency by operating fans only as fast as current load requires, HEPA filtration to provide a clean environment for delivering high-quality patient care. HEPA filters, remove at least 99.97 percent of airborne particles 0.3 micrometers (µm) or larger in diameter.
- A building automation system for centralized building control.

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About Trane

Trane, a business of Ingersoll Rand - the world leader in creating and sustaining safe, comfortable and energy efficient environments - improves the performance of homes and buildings around the world. Trane solutions optimize indoor environments with a broad portfolio of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for homes and commercial buildings. For more information, visit www.Trane.com.

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¹ Ulrich R., Quan X., Zimring C., et al. The role of the physical environment in the hospital of the 21st century: a once-in-a-lifetime opportunity.