



News Release

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Trane Introduces Advanced Control Solutions Designed to Optimize Chiller Plant Performance

Solutions increase system energy efficiency and reliability, reduce lifecycle costs, optimize plant operations and enable data management, reporting and trending

Brussels, Belgium, 13 June, 2013 – The chiller plant represents one of the major energy consumers in most buildings. [Trane](#), a leading global provider of indoor comfort solutions and services and a brand of [Ingersoll Rand](#), now offers a range of powerful, intelligent and easy-to-use control solutions that help manage chiller plant operational costs.

Facility managers require comprehensive solutions that improve the performance of individual components while enabling them to communicate and operate in harmony to deliver optimal, efficiency and performance as a heating, ventilating and air conditioning (HVAC) system.

Based on 100 years of extensive knowledge in commercial cooling systems, Trane introduces Chiller Plant Controls, advanced control solutions designed to optimize chiller plant performance. This high-performance approach to both new and existing facilities helps owners and operators achieve specific standards for system reliability as well as energy efficiency.

The Chiller Plant Controls feature a range of the following customized control solutions for different applications:

- **Chilled Water Reset** optimizes chiller performance by tracking seasonal changes in cooling load and adjusting the chilled water set-point to improve chiller efficiency. This control solution matches plant operation with prevailing conditions which lowers the burden on the compressors and reduces energy consumption.
- **Chiller Plant Sequencer** matches the number of chillers in operation to the cooling requirements at any given time to substantially reduce run times leading to a reduction in energy consumption. Based on the chilled water demand, Chiller Plant Sequencer limits chiller operation and its associated auxiliary equipment thus reducing operating costs. A touch-screen display allows for monitoring and control of key operating parameters.
- **Chiller Plant Manager** is an advanced supervisory system that reduces operating costs by balancing component run times. It controls the system components and ensures that only the required ones are operating to meet a system load. It allows them to work in harmony to maximize reliability and performance.

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In addition to controlling the chillers, the Chiller Plant Manager also controls and sequences the components of the chiller plant and can notify users when scheduled maintenance is required. Browser and application support for both tablets and mobile phones provides remote operation. Features like data trending allow operators to monitor key parameters of the chiller plant.

- **Chiller Plant Optimizer** is an advanced, fully scalable and adaptable controls solution that takes a holistic view of the plant resulting in optimized operation of the complete system and minimized energy use. The Chiller Plant Optimizer is capable of controlling advanced functions including free cooling, heat recovery or thermal storage. It also provides a comprehensive dashboard view enabling additional data management, detailed performance reporting and proactive action to address operational deviations.

“For Trane, a control solution goes far beyond automation of the chiller plant. It responds to the needs of individual components, addresses inherent anomalies and ensures totally coordinated operation,” said Hugues Depré, controls project development leader for Trane in Europe, Middle East, India and Africa. “With Trane Chiller Plant Controls, customers have a solution that helps them optimize their system performance and achieve increased comfort and security coupled with reduced costs of ownership and operation.”

Trane Chiller Plant Controls architecture is built around core high-technology components that are scalable for water-cooled or air-cooled chiller plant infrastructures.

Trane Tracer™ controls are built on the open BACnet® data communication protocol that allows for the future integration of additional building automation devices, from both Trane and other suppliers. The Tracer™ BAS Operator Suite provides applications for tablets and mobile devices that allow for remote building monitoring and management.

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Trane Celebrates 100 Years


Founded in 1913 by James Trane and his son Reuben, Trane has a long history of industry-defining innovations for heating, ventilating and air conditioning systems. It is a leading provider of indoor comfort solutions and services and a brand of Ingersoll Rand. Trane has a 100 years' worth of application expertise from design to operation in different building types to help customers achieve maximum energy and operational efficiency. Celebrating its centennial this year, Trane continues to develop innovations in high performance building technologies, operating practices and intelligent building services that will create better, healthier, more comfortable and more productive indoor environments in the years to come.

About Ingersoll Rand

Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands—including [Club Car®](#), [Ingersoll Rand®](#), [Schlage®](#), [Thermo King®](#) and [Trane®](#)—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. Trane solutions optimize indoor environments with a broad portfolio of energy efficient heating, ventilation and air conditioning systems, building and contracting services, parts support and advanced control. Ingersoll Rand is a \$14





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