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Contact:

Tin Geysels
+32.486.30.20.88, tin.geysels@fullstopcc.com

Joan Schimml
+1.651.260.4983, joan.schimml@trane.com

Trane Chiller Plant Retrofit Services Improve Efficiency and Reduce Costs

In-depth analysis and tailored solutions reduce chiller plant operating costs by an average of 20 percent

Brussels, Belgium, May 26, 2011 – Facility managers trying to keep operational costs under control are wise to pay special attention to their chiller plants. These chilled water systems can consume 25 percent or more of an industrial facility's yearly electricity use. They also become less energy efficient, less reliable and more costly to operate as they age.

Trane, a leading global provider of indoor comfort systems and solutions and a brand of Ingersoll Rand, now offers Chiller Plant Retrofit Services to optimize the performance and energy efficiency of chillers and chiller plants, particularly those older than 10 years. Trane Chiller Plant Retrofit Services can reduce yearly operating costs up to 20 percent and more in some cases.

An in-depth analysis with the Trane Chiller Plant Analyser (TCPA) is the first step in the process. TCPA takes into account variables such as weather data, chiller specifications and performance characteristics to quickly evaluate potential energy savings and carbon reductions, as well as the impact and payback of specific retrofit improvements. This analysis leaves the customer with actionable measures that will significantly improve energy efficiency, reliability and performance.

Upon customer sign-off, the recommended improvements are put into action. Trane Chiller Plant Retrofit Services are tailored to the operational and performance needs of each customer. They can include a number of solutions, executed by Trane specialists:

- Chiller retrofit or replacement
- Chiller plant re-engineering
- Variable primary flow system and variable secondary distribution system
- Free cooling and cooling tower optimization
- Ice storage system or any other peak shaving system
- Heat recovery
- Trane chiller plant management system
- Chilled water and condenser water reset temperature
- Cooling tower optimum set points
- Detailed chiller plant energy analysis using TRACE™ 700 building simulation software
- Addressing environmental and operating cost concerns through enterprise energy management systems

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Trane fulfills the entire retrofit process, from design to commissioning. Trane Chiller Plant Retrofit Services also include ongoing maintenance and repair to ensure continued optimal operation.

“Today’s facility manager simply can’t afford a chiller plant that wastes energy or performs unreliably,” said Michel van Roozendaal, vice president Service, Controls, Turnkey and Aftermarket for Trane Europe, Middle East, India and Africa. “With Trane Chiller Plant Retrofit Services, even older chiller plants can meet current efficiency, environmental and performance standards. Trane Chiller Plant Retrofit Services offer our customers real cost savings and peace of mind.”

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