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Trane Adiabatic Cooling Delivers Enhanced Reliability and Efficiency to Air Cooled Systems Operating In Adverse Conditions

New system uses cooling properties of water to lower inlet air temperature by up to 20 C

Brussels, Belgium, July 13, 2011 – Cooling systems operating outside design parameters typically run an increased risk of breakdowns, higher energy costs and lower operational efficiency. Trane, a leading global provider of indoor comfort systems and solutions and a brand of Ingersoll Rand, now introduces Adiabatic Cooling to help building owners and facility managers achieve optimal operating performance and energy savings.

Trane Adiabatic Cooling improves heating, ventilating and air conditioning (HVAC) system reliability and efficiency by decreasing the temperature of the air entering the coil. The air temperature reduction generated by Adiabatic Cooling can reach up to 20 C. A mere 10 C temperature drop generates an average of 13 percent reduction in power consumption, delivering immediate cost savings and environmental benefits.

The Adiabatic Cooling concept uses the cooling properties of water by intermittently evaporating water on a large mesh in front of the coils, while preventing the water from actually reaching the coil. As a result, the air temperature drops before it reaches the condenser.

Adiabatic Cooling directly contributes to HVAC efficiency, helping the system maintain full load even during peak season. Occupant comfort increases as the system operates at full capacity at all times, regardless of the ambient conditions.

Implementing Adiabatic Cooling ensures reduced discharge temperature, as well as lower oil and motor winding temperature. These factors contribute to compressor and overall system reliability.

“Trane Adiabatic Cooling helps customers address the operational challenges that prevent a facility from reaching maximum efficiency, reliability and comfort,” said Jose Laloggia, service and parts leader for the Trane commercial business in Europe, Middle East, India and Africa. “Adiabatic Cooling is designed to be flexible, simple to install and economical with very limited maintenance required so HVAC system performance can reach optimal levels.”

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Adiabatic Cooling provides the greatest energy relief to building owners and facility managers with systems operating in adverse conditions. Examples include environments with extremely high ambient temperatures, regular sand or dust storms, or a limited power supply. Locations dealing with air recirculation as a result of undersized installation clearances between units will also benefit. Other applications include systems retrofitted with the high-pressure refrigerant R404a which limits ambient air temperatures.

The mesh provides shading to the coils, thus avoiding the solar radiation effect. It also acts as a self-cleaning filter protecting the coils. The sectional mesh design allows Adiabatic Cooling to be installed in a wide range of air cooled HVAC systems, from mini-splits to chilled water systems.

The water spray system works with normal main pressures; a water pump or water treatment are not required. A dedicated controller ensures minimal water consumption.

Trane Adiabatic Cooling is part of the Trane Care™ customized service solutions that offer predictive and preventive maintenance, management, monitoring, repair, retrofit, optimization, renewal and enhancement services for HVAC products and systems to improve efficiency, reliability and cost of ownership.

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About Ingersoll Rand

Ingersoll Rand (NYSE:IR) is a world leader in creating and sustaining safe, comfortable and efficient environments in commercial, residential and industrial markets. Our people and our family of brands — including Club Car®, Hussmann®, 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, ventilating and air conditioning systems, building and contracting services, parts support and advanced control. Ingersoll Rand is a \$14 billion global business committed to sustainable business practices within our company and for our customers. For more information, visit www.ingersollrand.com or www.trane.com.