



FOR IMMEDIATE RELEASE

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**Trane EarthWise Intelligent Variable Air Systems may
Improve Efficiency by 20 to 30 Percent**

Systems deliver lower energy costs and higher occupant satisfaction

St. Paul, Minn., Sept. 2013 — Trane, a leading global provider of indoor comfort solutions and services and a brand of Ingersoll Rand, introduces Trane® EarthWise™ Intelligent Variable Air Systems. This system is a key part of a cost-effective, energy-saving building design that may improve heating, ventilation and air conditioning (HVAC) system efficiency by 20 to 30 percent when compared to a traditional variable air volume (VAV) system.

Available for both new installations and retrofits, the systems use advanced technology, new design strategies and optimized controls to deliver lower energy costs and higher occupant satisfaction.

“Older VAV systems can’t compare to Trane EarthWise Intelligent Variable Air Systems’ built-in system optimization strategies,” said Al Fullerton, EarthWise product business leader for Trane North America. “This technologically-advanced design translates into energy efficiency — and that efficiency translates into cost savings for Trane customers. Most important, the systems precisely monitor and quickly react to changing conditions to keep building occupants comfortable.”

Standard applications and operator dashboards, supported by thorough documentation, simplify the system for optimal operation. Dashboards also include built-in calculations to help define the provided cost savings. The user interfaces are optimized for mobile use, so the system adapts for monitoring and management from a workstation, tablet or smartphone.

The Earthwise Intelligent Variable Air System, which can be viewed on the Tracer™ Building Automation System (BAS) Operator Suite application, allows customers to monitor systems, make setpoint changes, view dashboard graphics, control spaces and manage alarms.

Upgrading to a Trane EarthWise Intelligent Variable Air System can be fast and doesn’t have to be cost prohibitive. Retrofit dampers work well with existing ductwork and controls are baseline programmed at the factory to simplify installation and commissioning, avoiding inconsistencies of custom programming — while still providing on-site programming flexibility.

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News Release

Trane EarthWise Intelligent Variable Air Systems may Improve Efficiency by 20 to 30 Percent – 2

EarthWise Intelligent Variable Air Systems incorporate the use of reliable Trane Wireless Comm technology which eliminates wiring between equipment, system controllers and temperature sensors, for quicker project completion with less disruption to building occupants.

Trane EarthWise Intelligent Variable Air Systems use BACnet™ communications, allowing the system and equipment controllers to operate together as a high-performance system or integrate with an existing system using the same open protocol.

Programmed with exclusive Trane algorithms for maximum performance and efficiency, the Tracer SC system controller coordinates the HVAC system's operation and is fully compatible with Trane Intelligent Services for optional 24/7 offsite system monitoring and response.

For additional efficiency benefits, Trane EarthWise Intelligent Variable Air Systems incorporate dynamic ventilation control and economizer free cooling — capabilities not easily provided by a secondary ventilation system. Zone dampers and optimized ventilation sequences reduce the amount of outdoor air needed for ventilation, minimizing energy use while complying with mechanical codes.

The systems are ideal for use in commercial and owner-occupied office spaces, K-12 schools and higher education facilities.

To learn more, visit Trane.com/iVas.

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About Ingersoll Rand and Trane

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results. 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. For more information, visit ingersollrand.com or trane.com.

