



News Release

FOR IMMEDIATE RELEASE

Trane Adds Electronic Commutation Fan Motor Technology to Chilled Water Terminals *-- New Technology Uses Four Times Less Energy Than Conventional Motors --*

Brussels, Belgium, 24 June, 2010 – Meeting building owners' demand for increased energy efficiency throughout the heating, ventilating and air conditioning (HVAC) system, Trane is now applying the innovative electronic commutation (EC) fan motor technology throughout its range of chilled water terminals. This state-of-the-art technology offers office buildings and hotels substantial energy savings and improved user comfort.

EC motors using electronic commutation of motor windings require four times less energy (Watt) than conventional alternating current (AC) motors in the low speed range. While AC fan motors run on fixed speeds, EC fan motors run at all speeds throughout the entire operating range of the unit, with the motor rpm-controlled via a 0 to 10 Volt signal from a unit controller. Without perceptible sound shift when modulating the fan speed to adapt to minimum cooling and heating load variations, increased acoustic and thermal comfort is ensured.

“Building and hotel owners can reduce energy bills for their air-conditioned spaces by up to 90 percent by incorporating Trane terminal units with EC motor technology into their HVAC system,” said Franck Biegalko, applied integrated systems leader for Trane Europe, Middle East, India and Africa. “As future electricity cost increases will have a limited impact on cost of ownership, this will help keep rent rates stable for years. In addition, with energy regulations becoming ever more stringent, investing in EC fan motor terminals today will guarantee the value of building assets for years to come.”

Trane incorporated the new technology into three types of terminal units: the new horizontal concealed fan coil FED and U-Line units, and the chilled water cassette CWE.

The FED is a straight-through fan coil unit that offers up to 100 Pa of static pressure within several configurations of coils, plenums, electric heaters and water valves from 0.6 to 4.0 kW within a range of four sizes. The U-Line models' innovative “u-turn” airflow pattern ideally fits buildings where individual offices of 10 to 30 m² are grouped along a building's perimeter. Both FED and U-Line have a slim shape (225 mm high) that makes them ideally suited for concealed installation in office buildings and hotels.

The third Trane terminal unit with EC fan motor technology, the new chilled water cassette CWE, is available from 1.5 to 11 kW and comes in five sizes. With its smart and discreet front, the system fits seamlessly in all kinds of suspended ceilings in retail or office buildings.

The new terminal units can be factory-mounted and configured with the Trane Tracer™ ZN525 controller. The new controller maximizes EC fan motor technology performance by providing an average of five percent additional power consumption savings on an annual basis. It also controls the fan speed to adapt to exact cooling and heating loads of individual rooms or zones in the building, improving room temperature and acoustic comfort.

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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 control. For more information, visit www.trane.com.

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