



Facts about Trane® Dedicated Outdoor Air Systems

<p>What are Trane® Dedicated Outdoor Air Systems?</p>	<p>Trane® dedicated outdoor air systems are an energy-saving component for a heating and cooling system, allowing it to work more efficiently. Adding a system can improve indoor air quality, and also reduce heating, ventilation and air conditioning operating costs.</p> <p>The systems cool and filter 100 percent of outdoor air before directing an optimal amount into a building, which helps maintain compliance with ASHRAE 62.1 ventilation standards, and can decrease indoor humidity and reduce the load on heating, ventilation and air conditioning systems. The result is improved occupant comfort and lower utility bills.</p> <p>When incorporated as part of a heating, ventilation and air conditioning (HVAC) system's total design, a Trane dedicated outdoor air system can mean smaller, less expensive, more energy-efficient local or zone terminal devices can be specified, saving money on first costs. The system — which has a life span of up to 20 years or more — can pay for itself in a short amount of time, saving money on first costs and utility bills.</p>
<p>Features</p>	<p>Improved indoor air quality</p> <p>Trane dedicated outdoor air systems are designed to cool and dehumidify 100 percent outdoor air. The systems contain a specially designed six-row evaporator coil that can quickly dehumidify incoming outdoor air and is optimally engineered to maximize both moisture removal and energy savings.</p> <p>When the dehumidification process is activated, the coil maintains a temperature of 38° F — optimal for quickly removing moisture from air while avoiding coil icing. After dehumidifying, outdoor air can be uncomfortably cold. A hot-gas reheat coil raises its temperature to a more comfortable level. The cool, dehumidified air is then ducted to the building's interior or to terminal devices. Multiple types of air filters are compatible with Trane dedicated outdoor air systems to keep pollen, dust and other outdoor air contaminants from entering a building.</p> <p>The systems have an optional UV-C band irradiation light to inhibit the growth of some microorganisms that otherwise could thrive on the wet surface of an evaporator coil and potentially pass through the evaporator coil and into a building's interior.</p> <p>Seamless integration into many HVAC system designs</p> <p>Trane dedicated outdoor air systems are designed to integrate seamlessly into many HVAC system designs, making them perfect for both retrofit and new construction projects. In some cases, Trane dedicated outdoor air systems can even serve as standalone devices. All commercial HVAC designs require a certain amount of outdoor air to be introduced to the system. Due to their versatility, Trane dedicated outdoor air systems can play a key role in nearly any HVAC design, including:</p> <ul style="list-style-type: none"> • Constant-air systems • Variable-air-volume systems • Fan coil units • Unit ventilators • Water-source heat pumps • Variable refrigerant flow systems



<p>Features, continued</p>	<p>Advanced features deliver efficient, effective performance</p> <ul style="list-style-type: none"> • Energy recovery cassette — Optional energy-saving device recovers thermal energy from exhaust air, reducing utility costs • Six-row evaporator coil — Efficiently and economically cools and dehumidifies outdoor air • Digital scroll compressor — Delivers very precise capacity matching at part-load conditions can be achieved • Fully modulating indirect-fired gas burner — Delivers precise amount of heat called for by demand levels, saving energy and lowering utility costs • High-efficiency plenum fan — Premium-efficiency direct-drive motor with a variable-speed drive powers backward-curved blades to efficiently move air <p>Designed for easy maintenance Thoughtful design features and durable components help make the systems easier to keep running at peak efficiency: slide-out access for plenum fan/motor and energy recovery cassette, beltless fan motor, no-tool, reversible access doors, easy-change air filter holder, 25-year warranted heat exchanger and optional electro-fin coating.</p>
<p>Benefits</p>	<p>Trane dedicated outdoor air systems deliver the following benefits:</p> <ul style="list-style-type: none"> • Allows a heating and cooling system to run more efficiently and can integrate seamlessly into many HVAC system designs • Improves indoor air quality and occupant comfort • Lowers first costs and operating costs • Provides compliance with ASHRAE 62.1 ventilation standards • Provides the ability to earn buildings LEED credits • Allows for easy maintenance
<p>Key Markets</p>	<p>Trane dedicated outdoor air systems are ideal for use in buildings that frequently experience high occupancy levels, or incorporate rooms that naturally produce humidity — like large kitchens and shower facilities.</p>

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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.

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