



Trane® Intelligent VAV Systems DX Rooftop Applications: Improved efficiency and more advanced control.

Human-centric. Planet-friendly. Technology-driven.

Trane Intelligent VAV systems combine modern Tracer® controls, our latest rooftop equipment with higher efficiency ratings, and variable air volume boxes. New technologies deliver both personalized comfort and building decarbonization.

Today's VAV is a planet-friendly way to deliver targeted zoned comfort to every part of the building. Intelligent systems control the temperature and indoor air quality for multiple zones from one or more large, high-efficiency DX rooftop units. Inside, VAV boxes that serve multiple zones can provide cooling and heating as needed.

Complicated? Not at all. Everything from equipment to controls is part of our pre-packaged solution. Trane's system design support and in-factory programming ensure that everything works together on arrival to deliver spot-on comfort while making sure every kilowatt of consumed energy counts.





State-of-the-art indoor air quality and comfort.

Surpass higher expectations for commercial buildings. Intelligent VAV systems capably control the temperature and humidity in multiple zones, even when they have dissimilar cooling and heating requirements.



Control comfort dynamically and responsibly.

"Intelligent" VAV means systems use dynamic building strategies to deliver the right temperature to the right spaces, while operating in energy-saving mode when people are not present.



More power to occupants, less work for facility staff.

Trane controls provide owners and operators the option to empower tenants and occupants to report issues, adjust comfort settings, and request after-hours access directly—without involving the busy facility management team. The application can send invoices for building use outside of normal billing hours. The flexibility of the application puts the facility team in control of how they manage their buildings.



Bring the right amount of outdoor air in.

Ventilate spaces without additional air conditioning equipment. Control strategies and flow measuring with our Traq™ dampers ensure proper ventilation without excessive energy use.



Indoor air feels fresh and clean.

Using rooftop units with modulating hot gas reheat can provide dehumidification in many applications without the need for additional equipment to maintain comfortable humidity levels.



Keep the sound level low.

Unlike systems which place noisy equipment in or near the occupied space, rooftop units can be located away from sound-sensitive areas. VAV terminal units are available with integral sound attenuators and variable speed fans for improved acoustical performance near occupied spaces.



Adapt to changing spaces

Air-Fi® wireless controls are the Trane standard choice for Intelligent VAV systems communication media because it is reliable and flexible. Redundant communication paths are created via a wireless mesh network and signal range is twice that of other systems creating four times the potential paths for message transmission. Since you're not tied down by wires, Trane Air-Fi wireless lets you easily expand or change your space whenever or wherever you need—while also minimizing occupant disruption.

Decarbonize through electrification and energy efficiency.

Achieve regulatory compliance and elevate sustainability standards. By standardizing control routines, Trane simplifies code compliance. Factory programming accommodates specialized needs, too.

Electrify heating and benefit from a clean-energy grid.

Systems can be designed as all-electric to eliminate emissions from fossil fuel heating methods.

Exceed new energy efficiency requirements.

Recently updated IntelliPak® rooftop units provide high efficiency (up to 19.3 IEER) and cost effectiveness with pre-packaged, factory-installed controls. Factory-installed options include

exhaust air energy recovery, outdoor airflow measurement for demand-controlled ventilation, variable-speed compressors and fans, modulating electric or gas heat, and a variety of air filtration options. Trane rooftop units have a variety of efficiency options which exceed minimum efficiency requirements across a broad range of tonnages to balance cost and sustainability goals.

Use data as a decision tool.

Current-generation Tracer® controls enable more data points, improving remote monitoring and providing greater input for energy trend analysis.

Use the lowest amount of energy possible.

Controls are factory-programmed allowing the use of ASHRAE Guideline 36 sequences. Trim and respond control methods ensure Intelligent VAV systems use the energy minimum to maintain a super-comfortable environment.

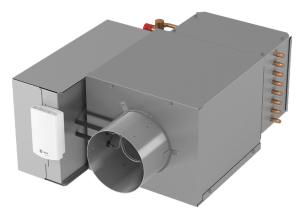
Get more from the latest advancements.

Energy recovery, staged and variable speed compressors help lower energy use, energy cost, and emissions. Centralized fans deliver ventilation and conditioned air. Variable speed fans on fan-powered VAV units further reduce the system's energy use while keeping sound levels low.

Packaged Performance.

Intelligent VAV Systems are all-inclusive. Equipment components feature factory-installed, Trane-programmed controls. System options include exhaust air energy recovery, outdoor airflow measurement, variable speed compressors and fans, and filter options.





VariTrane™ VAV Terminal Units

Updating an existing system?

Use existing ductwork and upgrade easily with retrofit dampers, new controls and Air-Fi Wireless Communication.



Intelligent

system design

delivers efficiency

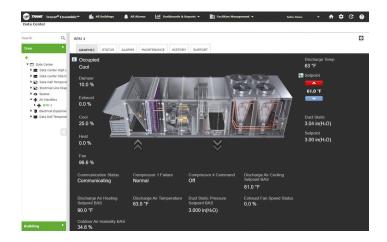
improvements of

20 to 30% compared

to other systems.

Zone Temperature Sensors

Air-Fi® Wireless Communication (Wired communication also available)



Tracer® System Controller includes standard, pre-programmed applications with optimized control sequences. User-friendly interface, energy dashboards, mobile access and more.

Visit trane.com to learn more.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit *trane.com or tranetechnologies.com*.