



# Trane® eFlex™

For 3-17.5 Ton Light Commercial Applications



# Engineered for efficiency

Trane® light commercial roof top units that incorporate eFlex™ technology precisely match output to the cooling demands of the space. They operate at their fastest levels when demand is high; they modulate to slower levels when demand is low. This delivers industry-leading part-load efficiencies (IEER) and is accomplished via variable speed indoor and outdoor fans as well as variable speed compressors controlled by ReliaTel™ Microprocessors.











## Smart Savings

Adding eFlex technology adds up to huge savings. Trane variable speed compressors produce superior results with less energy. After implementing eFlex technology, many businesses see a 30%-40% reduction in their energy use when compared to similar constant air volume products.

## Variable Speed vs. Fixed Feed

### Benefits of Variable Speed

	Variable Speed	Fixed Speed	Benefit of Variable Speed
<b>Compressor Cycling</b>	Reduced 	Increased 	Reduced compressor cycling leads to increased compressor extended life
<b>Energy Efficiency</b>			VFDs and ECMs match the compressor and fan speed to the specific demands of the work being performed
<b>Space Temperature Control</b>	 Best	 Good	By matching the load needs of the zone being cooled, space temperature variation is reduced
<b>Dehumidification Capabilities</b>			When properly sized, compressors and indoor fans run longer (at reduced speeds) improving latent work in many applications where active dehumidification is not required

## Precedent™ Light Commercial Rooftop Unit



### **Part of the Package: Comfort and Reliability**

With the flexibility to adjust speed based on demand, Trane® variable speed roof top units run more effectively than traditional constant volume units. This, in addition to varying the indoor fan speed, has the beneficial side-effect of providing ancillary humidity control without equipment add-ons or additional expense. Minimized compressor cycling means less wear-and-tear on the unit.

### **Industry-Leading Expertise**

Trane engineers remain on the cutting edge of the industry. Trane is the first leading brand to offer variable speed compressors combined with variable speed indoor and outdoor fans for light commercial applications. Our products perform above and beyond future regulatory requirements for part load efficiency (IEER). Our sales team provides expert guidance, helping customers match the right equipment with the right specification, sizing and the right installation plan.

# High-performance engineering

## eFlex™ technology

- Trane® light commercial roof top units that incorporate eFlex™ technology deliver industry-leading part-load efficiencies (IEER), which is accomplished via variable speed indoor and outdoor fans as well as variable speed compressors controlled by ReliaTel™ Microprocessors.
- Common components within the platform allow for ease of serviceability and troubleshooting. Precedent™ and Voyager™ units can be integrated with single or multi-space Variable Air Volume Systems and are designed to optimize load matching and part load efficiency along with comfort.

## Payback

- Rooftops with eFlex technology offer solutions with efficiencies up to 80% higher than standards established by the Department of Energy and ASHRAE®.
- Provides stable discharge air temperatures over a wide range of operating conditions to deliver superior comfort levels to building occupants.
- With the widest variety of factory installed options in the industry, Precedent and Voyager units can be configured to specifications before delivery, saving the expense of costly site-installed options.

Voyager™ II Rooftop Unit



### Easy Maintenance for Optimal Performance

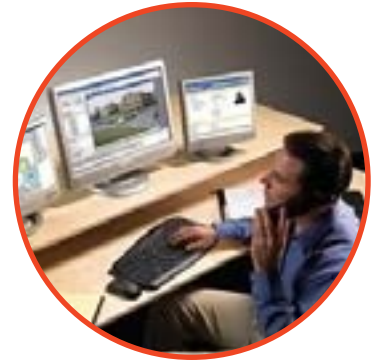
- Optional high efficiency MERV 8 & MERV 13 filters enhance overall indoor air quality.
- Hinged access doors are also optional and provide easy entry to the unit's service access areas. This reduces maintenance time and prevents roof damage.
- Color-coded, numbered wiring allows for faster identification of wires, saving time and money when diagnosing and servicing the unit.

### Lightning Fast Delivery

From order to ship, Trane® continues to deliver the industry's fastest configured product lead times.

### Control Your Site. Control Your Costs.

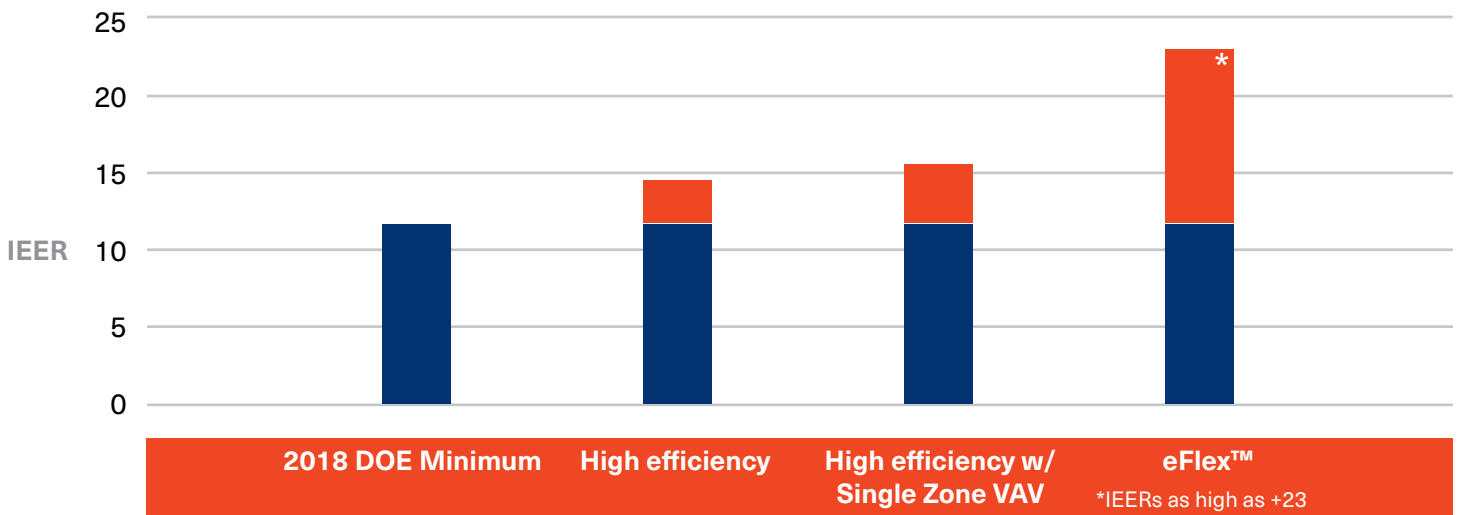
Run your site as efficiently as your system with Trane controls.



### On Your Desktop. On the Go. Everything You Need to Know.

The Trane® Mobile TOPSS™ app and the Trane 360™ desktop app provide in-depth information on eFlex technology options for Trane products. Use this application suite to check inventory, identify parts, select, price, and order Trane products.

eFlex™ technology provides high part load efficiency (SEER/IEER)





### Multiple Zone VAV

A multiple-zone VAV (MZVAV) system consists of a packaged rooftop unit that serves several individually controlled zones. Each zone is equipped with a VAV terminal unit that varies the quantity of air delivered to maintain the desired temperature in that zone. The rooftop unit controller varies the speed of the indoor fan to maintain the static pressure in the supply ductwork at a setpoint, ensuring that all zones receive the necessary quantity of air. In addition, cooling capacity is cycled to maintain the supply air temperature at the desired setpoint. For decades, Trane® has been an industry leader in rooftop VAV systems.

### Trane Human Interface Panel

The available factory-installed human interface panel is an easy-to-read color touch screen display that shows both real time and trending information about system operations. This enables more efficient commissioning of Precedent™ and Voyager™ units and allows technicians to easily configure, monitor, and adjust system setpoints for more precise, efficient operations.

- ReliaTel™ controls integration
- Large color touch screen display
- Data trending capability
- Component runtime



## Trane® Air-Fi® Wireless Systems

Trane® Air-Fi® wireless technology eliminates the need for wired components. No wired components means no-hassle installation; you can install Air-Fi wireless systems without disrupting your business. Air-Fi wireless systems provide secure, reliable operation, and include a maintenance-free lifetime battery.\* The technology leverages open standard communication, which allows you to easily implement changes to meet future needs.



## Trane Tracer® Ensemble™

The powerful Tracer Ensemble building management solution gives you an enterprise-wide view into all your building control systems—whether you have two buildings or hundreds. Manage and respond to alarms, change setpoints and modify schedules with just a few clicks from a single access point—an efficient solution that helps provide greater safety and comfort of building occupants. The Tracer Ensemble system is also easily customized to meet your specific facility management needs, and the wealth of information it provides can be tracked, stored and analyzed over years, to ensure building performance and efficiency.

## Trane Tracer SC

The Trane Tracer® SC building automation system is a complete building control solution that delivers the reliability you expect from Trane. The Tracer SC system coordinates the equipment from your building's HVAC and other systems. It offers control for facility managers and maintenance staff with a web-enabled user interface—so you get easy and convenient access to your system from virtually anywhere.

## Trane Tracer BAS Operator Suite

Compatible with the Trane Tracer® SC system, this mobile app allows Facility Managers to monitor and control a facility from your mobile device. Check the HVAC system; set point changes; manage alarms; and respond to hot/cold calls. The Trane Tracer BAS Operator Suite puts your building at your fingertips.



\*Based on typical indoor operating conditions

Learn more at [trane.com](https://trane.com)



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](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

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