



# Trane® Light-Commercial Rooftop Units

Retail and Restaurant Applications



# The options your business needs with the comfort your customers want



## Right for retail and restaurants

Reliability and consistency are vital components of your business — and of your HVAC system, too. Trane® rooftop units have advanced design features that help produce comfortable, quiet environments with good indoor air quality to keep your customers comfortable and coming back. And with some of the highest energy-efficiency ratings in the industry, a Trane rooftop unit can deliver both comfort and cost savings.

Many forces compete to take money from your business's budget, including HVAC expenses. A rooftop unit can have a significant impact on your business and your customers, from its initial cost to long after the unit is in use. That's why a Trane® Foundation™, Precedent™ or Voyager™ rooftop unit can be the perfect choice — especially when paired with a Trane dedicated outdoor air system.

Whether you need an advanced system or a simple design, Trane has a variety of rooftop units that can deliver everything you want: Trane performance, quality, reliability and value ... all in units with cost-effective designs that ship quickly.

Low costs. High efficiencies. Fast delivery times. For all these reasons and more, a Trane rooftop unit isn't just the perfect choice for your business — it's the only choice to extend the life of your building and improve the lives of those within it.

## High efficiency means low operating costs

Trane rooftop units deliver energy efficiency without compromising on performance. Advanced design innovations work together to reduce energy consumption and your utility bills.

- Trane rooftop units are certified to meet the most recent energy-efficiency standards established by ASHRAE — your assurance of current design strategies to deliver lower energy consumption and smaller utility bills.
- The high energy efficiency delivered by Trane rooftop units may entitle owners to rebates from utility providers. Trane can help identify utility rebate opportunities as well as assist with the application for and collection of rebate funds, which can help offset project costs.
- Precedent and Voyager rooftop units are equipped with Trane eFlex™ variable-speed compressors and fans, which precisely match their output to the cooling demands of the space. This means they operate at their fastest levels when demand is high, but shift to slower levels when demand is less. The result is industry leading efficiency.
- Precedent rooftop units feature Trane eDrive™ direct drive plenum fans, which have an energy-efficient beltless design to lower operating costs and reduce maintenance costs over the lifetime of the units. Funds, which can help offset project costs.
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## Quick delivery, fast installations, lasting results

Trane understands that when you need a new rooftop HVAC unit, there's not a moment to spare. That's why we actively manage the manufacturing and inventory of our light commercial rooftop units to ensure models are ready to ship as soon as possible, with even the most highly configured units ready in as few as two weeks.

To minimize installation time, Trane Foundation rooftop units feature a unique dual-footprint design for compatibility with multiple roof curbs — without adaptors or other modifications. Other Trane preconfigured rooftop units come with factory-installed options to eliminate expensive and time-consuming accessory field installations.

## Rooftop units designed for your needs — and for your customers' comfort

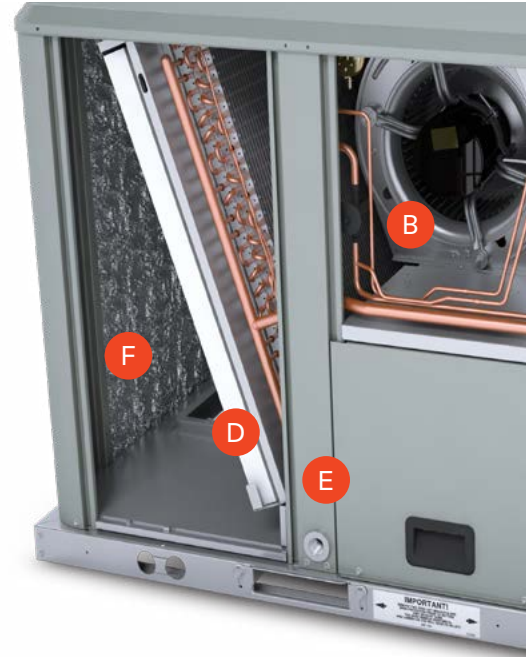
You need HVAC solutions that can serve your customers as well as you do. Trane rooftop units reliably deliver heating and cooling performance season after season, year after year, keeping customers comfortable — and coming back to your business. For low-noise operation, Trane rooftop units include sound-reducing features like the Precedent unit's ultra-quiet eDrive™ direct-drive plenum fan. For improved indoor air quality, Trane Voyager and Precedent rooftop units are compatible with advanced air-filtration options — including high-efficiency MERV 8 and MERV 13 air filters.



Precedent and Voyager rooftop units use eFlex variable-speed compressors and fan to precisely match their output to the cooling demands of the space. The result is rooftop units with some of the highest energy efficiency ratings in the industry.

# Trane Precedent rooftop units

## (3-10 Ton)



### A Trane eFlex variable-speed compressor and fan technology

Trane® eFlex™ variable-speed compressors and fans deliver the performance building occupants need, while also delivering the efficiency building owners want. By precisely matching output to the cooling demands of the space, Trane eFlex compressors and fans operate at their fastest levels when demand is high, and modulate to slower levels when demand is less, for an ultra-high Energy Efficiency Ratio (EER, which measures efficiency at peak output) and Integrated Energy Efficiency Ratio (IEER, a measurement of efficiency at variable workloads). The result: lower energy use and smaller energy bills.

### B Trane eDrive direct-drive fan technology

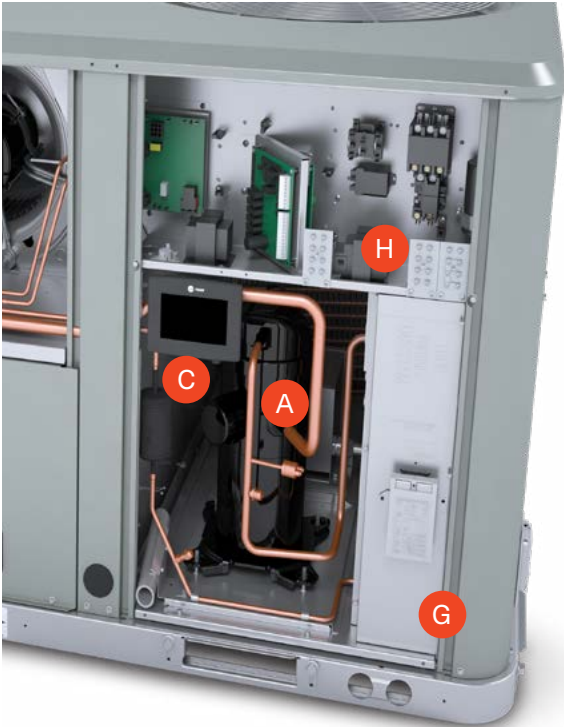
Trane eDrive™ direct-drive fans save energy and operate more quietly than competing units. These highly efficient fans feature a beltless design, which reduces maintenance over the lifetime of the unit and lowers operating costs.

#### Variable-air-volume (VAV) option *(not shown)*

Precedent rooftop systems offer both single-zone and multi-space VAV. ReliaTel™ controls can integrate with existing VAV solutions to interface with both Tracer™ and Tracker™ control platforms. Together, they deliver energy-efficient solutions for every building need—and require minimal setup and commissioning. With the single-zone VAV option, the system modulates indoor fan and stage compressors as space temperature changes, for increased part-load efficiency and more precise temperature control.

### C Trane Human Interface Panel

A large, easy-to-read color touchscreen display delivers important system information at a glance—without requiring time-consuming decoding. This factory-installed option allows technicians to quickly and easily monitor important system operating parameters in real time, and compare current information with past performance information that can be invaluable in keeping your Precedent rooftop unit working optimally. The Human Interface Panel also allows technicians to change certain system set points right from the panel, aiding in start-up, preventive maintenance tasks and troubleshooting.



**D** **MERV 8 and MERV 13 filters**

High-efficiency filtration for better indoor air quality and occupant comfort. Using a MERV 13 air filter, Voyager can remove contaminants as small as 0.3 micron in size, which can include bacteria, cooking oil, smoke, insecticide dust and paint pigments.

**All-aluminum microchannel (MCHE) condenser coil (not shown)**

A more environmentally friendly condenser coil features improved durability and reliability. A recessed design protects fins from incidental damage, while increased coil rigidity enhances durability. The coil's design dramatically reduces the opportunity for leaks, and all-aluminum construction minimizes corrosion and eliminates formicary corrosion. An optional coil coating can further safeguard against corrosion. The coil also uses less refrigerant, making it more environmentally friendly and meeting the requirements of LEED EA Credit 4.

**Hot gas reheat (not shown)**

Heat energy is recycled from the compressor to reduce indoor air humidity, eliminating the need for a separate heat source to do the job which saves energy and money. Maintaining proper indoor humidity levels improves indoor comfort and can eliminate costly moisture-related damage to the building.

**E** **Double-sloped condensate drain pan**

Non-corrosive, double-sloped, reversible condensate drain pan is easy to install and easy to clean, with stainless steel construction available as an option.

**F** **Foil-faced insulation (not shown)**

Foil-faced insulation edges are captured and sealed, reducing the chance for insulation fibers to enter the air stream and clog filters, which reduces maintenance needs and costs.

**G** **Hinged access doors**

Easy entry to the unit's service access areas reduces maintenance time—and reduces the opportunity for roof damage, too.

**H** **Color-coded, numbered wiring**

Faster identification of wires helps save time and money when servicing and diagnosing the unit.



Scan the code or visit [Trane.com/LCU](https://www.trane.com/LCU) for more information.

# Trane Foundation rooftop units

## (12.5-25 Ton)



### A Trane eFlex variable-speed compressor and fan technology

Trane® eFlex™ variable-speed compressors and fans deliver the performance building occupants need, while also delivering the efficiency building owners want. By precisely matching output to the cooling demands of the space, Trane eFlex compressors and fans operate at their fastest levels when demand is high, and modulate to slower levels when demand is less, for an ultra-high Energy Efficiency Ratio (EER, which measures efficiency at peak output) and Integrated Energy Efficiency Ratio (IEER, a measurement of efficiency at variable workloads). The result: lower energy use and smaller energy bills.

### Variable-air-volume (VAV) option *(not shown)*

Precedent rooftop systems offer both single-zone and multi-space VAV. ReliaTel™ controls can integrate with existing VAV solutions to interface with both Tracer™ and Tracker™ control platforms. Together, they deliver energy-efficient solutions for every building need—and require minimal setup and commissioning. With the single-zone VAV option, the system modulates indoor fan and stage compressors as space temperature changes, for increased part-load efficiency and more precise temperature control.

### B Trane Human Interface Panel

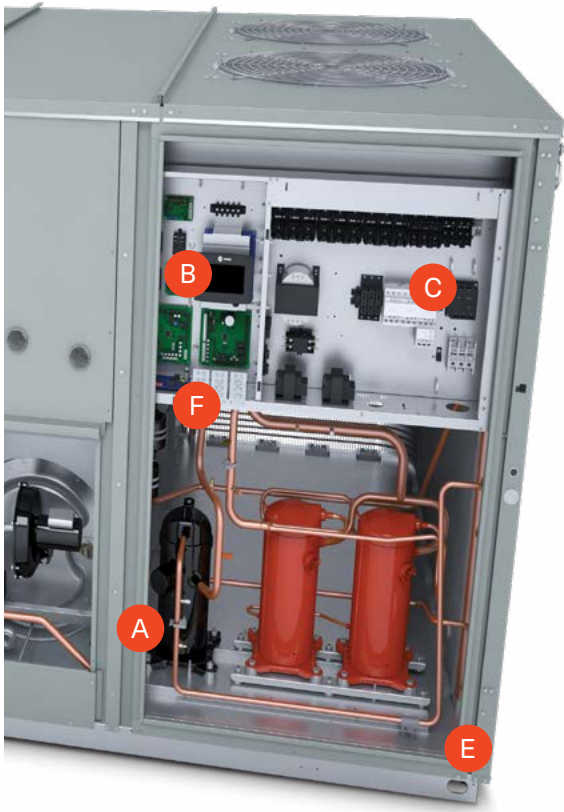
A large, easy-to-read color touchscreen display delivers important system information at a glance—without requiring time-consuming decoding. This factory-installed option allows technicians to quickly and easily monitor important system



operating parameters in real time, and compare current information with past performance information that can be invaluable in keeping your Precedent rooftop unit working optimally. The Human Interface Panel also allows technicians to change certain system set points right from the panel, aiding in start-up, preventive maintenance tasks and troubleshooting.

### C Factory-installed high short circuit current (SCCR) option

A factory-installed high-SCCR solution is available to help equipment meet the requirements of applicable building codes. Factory installation saves time and money, and ensures code compliance for a smoother installation process.



**D** **MERV 8 and MERV 13 filters**

High-efficiency filtration for better indoor air quality and occupant comfort. Using a MERV 13 air filter, Voyager can remove contaminants as small as 0.3 micron in size, which can include bacteria, cooking oil, smoke, insecticide dust and paint pigments.

**All-aluminum microchannel (MCHE) condenser coil** *(not shown)*

A more environmentally friendly condenser coil features improved durability and reliability. A recessed design protects fins from incidental damage, while increased coil rigidity enhances durability. The coil's design dramatically reduces the opportunity for leaks, and all-aluminum construction minimizes corrosion and eliminates formicary corrosion. An optional coil coating can further safeguard against corrosion. The coil also uses less refrigerant, making it more environmentally friendly and meeting the requirements of LEED EA Credit 4.

**Hot gas reheat** *(not shown)*

Heat energy is recycled from the compressor to reduce indoor air humidity, eliminating the need for a separate heat source to do the job which saves energy and money.

Maintaining proper indoor humidity levels improves indoor comfort and can eliminate costly moisture-related damage to the building.

**Foil-faced insulation** *(not shown)*

Foil-faced insulation edges are captured and sealed, reducing the chance for insulation fibers to enter the air stream and clog filters, which reduces maintenance needs and costs.

**E** **Hinged access doors**

Easy entry to the unit's service access areas reduces maintenance time—and reduces the opportunity for roof damage, too.

**F** **Color-coded, numbered wiring**

Faster identification of wires helps save time and money when servicing and diagnosing the unit.



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for more information.

# Trane Foundation rooftop units

## (12.5-25 Ton)



### **A Long-life compressors**

Rugged, reliable performance to deliver years of dependable cooling performance.

### **Tubular heat exchanger**

Proven design efficiently maximizes heat transfer; thickgauge construction ensures long service life.

### **B Reliable gas ignition system**

Demonstrated performance in many Trane® rooftop units currently serving customers, this gas ignition system has a long track record of trouble-free operation.

### **C Foil-faced insulation (not shown)**

Foil-faced insulation edges are captured and sealed, reducing the chance for insulation fibers to enter the air stream and clog filters, which reduces maintenance needs and costs.

### **All-aluminum microchannel (MCHE) condenser coil (not shown)**

Recessed design protects fins from incidental damage, while increased coil rigidity enhances durability. The coil's design dramatically reduces the opportunity for leaks, and all-aluminum construction minimizes corrosion. An optional coil coating can further safeguard against corrosion.

### **D Color-coded, numbered wiring**

Faster identification of wires helps save time and money when servicing and diagnosing the unit.

### **E Simple control wiring integration**

A user-friendly thermostat connection terminal allows for straightforward control wiring, including unit interlock (shutdown) capabilities.

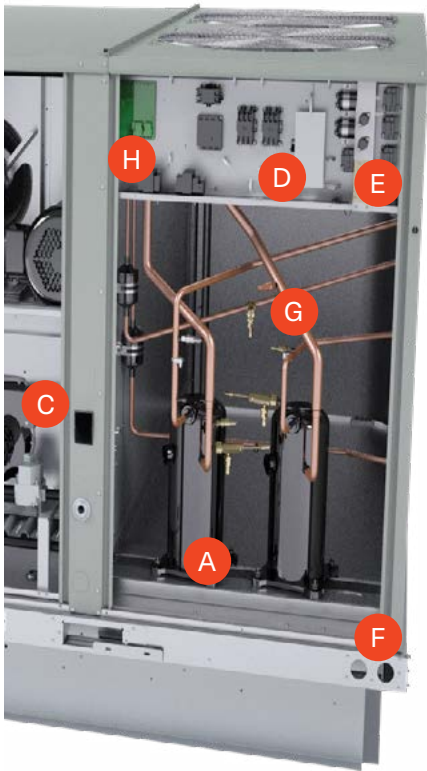
### **F Easy-access service panels**

Redesigned service panels make accessing the unit's interior easier and faster to help control maintenance costs.



# Maximum adaptability for faster, easier, less expensive installations

When designing the new Trane Foundation rooftop unit, we considered everything — including the old rooftop units it will be replacing. That's why we gave the Foundation rooftop unit a unique dual-footprint design that makes it compatible with multiple roof curbs without adapters or other modifications. We designed the Trane Foundation rooftop unit to easily match up to more buildings' existing ductwork — and to help you manage your budget and your bottom line.



## **G** Discharge line thermostat

Reliability of the refrigeration subsystem is increased with compressor shutdown through the detection of excessive discharge line temperatures in cases of a slow refrigerant leak.

## **H** Electrical phase monitor

The unit is prevented from operating in the presence of potentially damaging electrical conditions, including loss of phase, phase reversal and insufficient voltage.



Scan the code or visit [Trane.com/LCU](https://www.trane.com/LCU) for more information.



*This footprint configuration matches most existing Trane roof curbs, helping make installations easy. If the old rooftop unit you're replacing isn't a Trane unit ...*

*... it's quick and simple to modify the footprint configuration to match many other roof curb designs, saving the expense of installing an adapter curb.*



# Trane dedicated outdoor air systems: a perfect match for nearly any HVAC system

Trane® dedicated outdoor air systems can be designed to integrate seamlessly into many HVAC system designs, making them perfect for both retrofit and new construction projects. 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.

## More benefits for your building and you

### Reduced-size HVAC components

HVAC components can be smaller in size, due to the Trane dedicated outdoor air system's ability to precondition outdoor air. Smaller equipment can have a lower first cost and use less energy for reduced operating costs.

### Smaller ductwork

The Trane dedicated outdoor air system helps the HVAC system provide all the indoor comfort required using less air and using smaller ductwork, which costs less.

### Lower-power electrical riser

An HVAC system enhanced with a Trane dedicated outdoor air system uses less electricity, so it requires a lower power electrical riser another first-cost saving.

## Carefully designed with less maintenance in mind

Trane dedicated outdoor air systems are engineered not only to be easy to maintain, but also to need less maintenance altogether. Thoughtful design features and durable components help make Trane dedicated outdoor air systems easier to keep running at peak efficiency longer and more affordably, too.

### Easy slide-out access

Makes servicing the plenum fan/ motor combination and optional energy recovery cassette fast and easy.



### Beltless fan motor

Direct-drive design means no belts to break or change.

### No-tool, reversible access doors

The access doors on Trane dedicated outdoor air systems don't require tools to open, and their reversible hinges and handles make opening easier in tight-fit installations.

### Easy-change air filter holder

Allows fast, tool-less filter changes and quick adjustment for switching between 2-, 4- and 6-inch filters.

### 25-year warranted heat exchanger

Long-life type 409 stainless steel construction for superior oxidation- and corrosion-resistance.

### Optional electro-fin coating

Protects coils from environmental corrosion for longer service life.

# Comfort and cost savings:

*How Trane dedicated outdoor air systems benefit people and budgets*

Trane dedicated outdoor air systems include numerous advanced features that help deliver efficient, effective performance. Engineered to integrate with nearly any kind of HVAC design, a Trane dedicated outdoor air system can give your building more indoor comfort and lower energy bills.



## Energy recovery cassette

This 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.



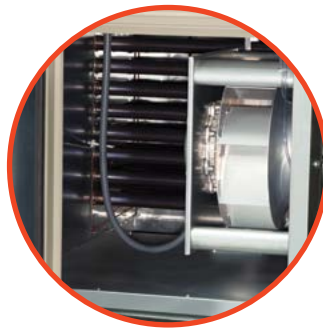
## Digital scroll compressors

By operating at constant speed and digitally controlling the orbital scroll's position in relation to the fixed scroll, very precise capacity matching at partload conditions can be achieved.



## Fully modulating indirect fired gas burner

Delivers the precise amount of heat called for by demand levels, saving energy and utility costs.



## High-efficiency plenum fan

Premium-efficiency direct-drive motor with a variable-speed drive powers backward-curved blades to efficiently move air.



Scan the code or visit [Trane.com/LCU](https://www.trane.com/LCU) for more information.

Because testing methods do not currently exist, Trane dedicated outdoor air systems are not AHRI certified at this time.

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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