

# Features and Benefits



### Unit Cabinet

The compact cabinet with rounded corners takes up less room and is less costly to ship. The beveled and ribbed top is not only aesthetically pleasing, it is designed to prevent water from pooling.

### Single Point Power

A single electrical connection powers the unit.



### Compressors

Precedent™ contains the best compressor technology available to achieve the highest possible performance. Our compressor line includes Trane-built Climatuff™ reciprocating and scrolls.

### Easy Access Panels

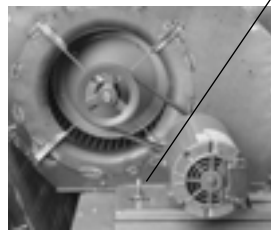
Easy access panels reduce the number of possible water entry points. Remove two screws for access to the standardized internal components and wiring.

### Low Ambient Cooling

All Precedent units have cooling capabilities down to -18°C (0°F) as standard.

### Easy-Adjust Idler Arm

With the Easy-Adjust Idler Arm, the belt and sheaves can be quickly adjusted without moving the mounted fan motor. The result is a major savings in time and money.

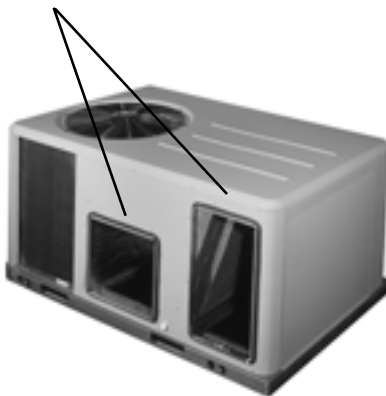


### Colored And Numbered Wiring

You save time and money tracing wires and diagnosing the unit.

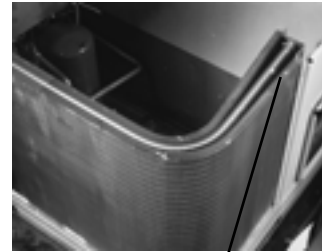
### Convertible Units

- The units ship in a downflow configuration. They can be easily converted to horizontal by simply moving two panels.
- Units come complete with horizontal duct flanges so the contractor doesn't have to field fabricate them. These duct flanges are a time and cost saver.



### Unit Base

For added water integrity, Precedent has a raised 29 mm (1<sup>1</sup>/<sub>8</sub>" ) lip around the unit's downflow supply and return to prevent water from blowing into the ductwork.



### Patented Condenser Coil

Precedent boasts a patented 1+1+1 Hybrid coil, permanently gapped for easy cleaning.



### Sloped Drain Pans

Every Precedent unit has a non-corrosive, removable, double-sloped drain pan that's easy to clean and reversible to allow installation of drain trap on either side of the unit.

### Through the Base Condensate

Every unit includes provisions for through the base condensate drain connections. This allows the drain to be connected through the roof curb instead of a roof penetration.

### Foil-Faced Insulation

All panels in the Evaporator section of the unit have cleanable foil-faced insulation. All edges are either captured or sealed to ensure no fibers get into the airstream.

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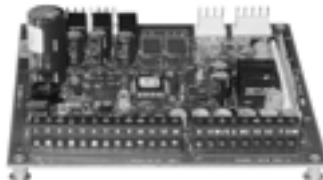
## Standardized Components

- Components are placed in the same location on all Precedent™ units. Familiarize yourself with one Precedent and you are familiar with every Precedent.



## Easy Access Low Voltage Terminal Board

Precedent's Low Voltage Terminal Board is external to the electrical control cabinet. It is extremely easy to locate and attach the thermostat wire. This is another cost and time saving installation feature.



## Low Voltage Connections

The wiring of the low voltage connections to the unit and the zone sensors is as simple as 1-1, 2-2, and 3-3. This simplified system makes it easy for the installer to wire.

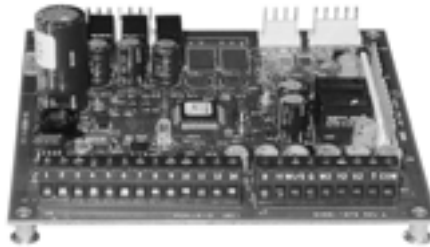
## Single-Side Service

Single-side service is standard on all Precedent units.

## Flexible Applications

- Only two roof curbs for the 5-10 ton Precedent line...simplifies curb selection.
- Airflow is outstanding. The Precedent can replace an older machine with old ductwork and, in many cases, improve comfort through better air distribution.
- Belt drive — standard or oversized supply fan motors meet a wide airflow range.
- Precedent offers ultimate flexibility. Options and components are not pre-packaged at the factory. Units are built to order in our standard "shortest in the industry" ship cycle time.

# Features and Benefits



## Micro Controls

Several years ago, Trane was the first to introduce microprocessor controls into the Light Commercial Market. That design, along with immeasurable experience, has provided the technology for Trane's second-generation ReliaTel™ microprocessor controls.

## ReliaTel Micro:

- Provides unit control for heating, cooling, and ventilating by utilizing input from sensors that measure outdoor and indoor temperature.
  - Improves quality and reliability through the use of time-tested microprocessor controls and logic.
  - Prevents the unit from short cycling, considerably improving compressor life.
  - Ensures that the compressor will run for a specific amount of time, which allows oil to return for better lubrication, enhancing the reliability of the compressor.
  - Reduces the number of components required to operate the unit, thereby reducing possibilities for component failure.
- Eliminates the need for field-installed components with its built-in anti-short-cycle timer, time delay relay and minimum "on" time controls. These controls are factory tested to assure proper operation.
  - Requires no special tools to run the Precedent unit through its paces during testing. Simply place a jumper between Test 1 and Test 2 terminals on the Low Voltage Terminal Board and the unit will walk through its operational steps. The unit automatically returns control to the zone sensor after stepping through the test mode a single time, even if the jumper is left on the unit.
  - As long as the unit has power and the LED is lit, the Micro is operational. The light indicates that the Micro is functioning properly.
  - Features expanded diagnostic capabilities when used with Trane's Integrated Comfort™ systems.
  - As an energy benefit, softens electrical "spikes" by staging on fans, compressors and heaters.
  - The Intelligent Fallback or Adaptive Control is a benefit to the building occupant. If a component goes astray, the unit will continue to operate at predetermined temperature set points.
  - Intelligent Anticipation is a standard feature of the Micro. Functioning constantly, the Micro and zone sensors work together in harmony to provide tight comfort control.

# Features and Benefits

## Factory-installed Options

### Hinged Access Doors

These doors permit easy access to the filter, fan/heat, and compressor/control sections. They reduce the potential roof damage from screws or sharp access door corners.

### Economizer

Equipped with either dry bulb, reference or comparative enthalpy sensing, this feature provides free cooling as the outdoor temperature and/or humidity decreases. Economizers, correctly installed, offer valuable energy savings. Factory-installed economizers save time and ensure proper installation.

### Phase Monitor

Phase monitor shall provide 100% protection for motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitor is equipped with an LED that provides an ON or FAULT indicator.

### Clogged Filter/Fan Fail Switches

These sensors allow a zone sensor service light or Integrated Comfort system to indicate a dirty filter or a fan that's not working. The field installation charges for these valuable feedback devices often eliminate them from consideration. Factory installation can make such features a good investment.

### Comm-3/4 Trane Communication Interface

Available factory or field-installed. This module, when applied with the Micro, easily interfaces with Trane's Integrated Comfort™ system.



The following options round-out the complete line of Precedent™ options:

- 0 - 50% Manual or Motorized Outside Air
- Discharge Air Sensor
- Electric heaters (available as field-installed accessories)
- Hail Protection Quality Coil Guards
- Wide array of Zone Sensors
- Factory built Roof Curb

### One of Our Finest Assets:

Trane Sales Representatives are a Support group that can assist you with:

- Product
- Application
- Service
- Training
- Special Applications
- Specifications
- Computer Programs and much more

Precedent has the features and benefits that make it first class in the light commercial rooftop market. Designed with input from field contractors and engineers, its airflow performance is outstanding.

**Precedent...The same Trane quality...with added flexibility.**

# Features and Benefits

## Quality And Reliability Testing

- All Precedent™ designs were rigorously rain tested at the factory to ensure water integrity.
- Actual shipping tests were performed to determine packaging requirements. Units were test shipped around the country to determine the best packaging.
- Factory shake and drop tests were used as part of the package design process to help assure that the unit arrives at the job site in top condition.
- Rigging tests include lifting a unit into the air and letting it drop one foot, assuring that the lifting lugs and rails hold up under stress.
- We perform a 100% coil leak test at the factory. The evaporator and condenser coils are leak tested at 1,375 kPa (200 psig) and pressure tested to 3,100 kPa (450 psig).
- All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately.
- Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to rigorous Trane requirements.

**We test designs at our factory not on our customers!**

## VariTrac™

### VariTrac

When Trane's changeover VAV System for light commercial applications is coupled with Precedent, it provides the latest in technological advances for comfort management systems and can allow thermostat control in every zone served by VariTrac.

