

# Precedent<sup>®</sup> Heat Pump and Dual Fuel Units

Efficient electric and hybrid cooling and heating



## Standard & High Efficiency 12.5 – 25 tons

### Dependable comfort for all climates

Building decarbonization and local electrification mandates are challenging us to think differently about all-weather comfort systems. Heating only with natural gas may not bring buildings into compliance with today's sustainability initiatives. Trane's popular Precedent packaged rooftop units now offer reliable electrified cooling and heating for larger buildings, even in colder climates.

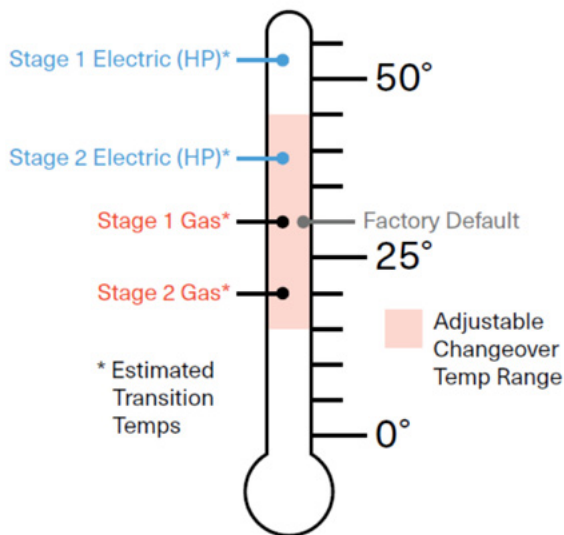
New Precedent models, available in both standard and high efficiency, offer two technology options to support decarbonization goals.

- Heat pump units provide all-electric cooling and heating using multi-stages.
- Dual fuel units provide a hybrid approach, using the electric heat pump as the primary heating method. An auxiliary gas heater is activated in colder temperatures.



### Meets new efficiency standards Compliance Assured

- US Department of Energy (DOE) 2023 Minimum Efficiency Regulations
- 81% Gas Furnace Efficiency (EPCA Gas Heat Minimum Efficiencies)
- ASHRAE 90.1-2019
- Regional Electrification Policies and Mandates

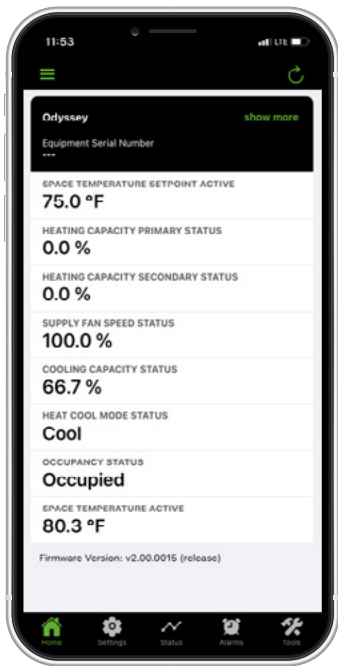


The changeover temperature from heat pump to natural gas can be adjusted to occur between 45°F and 15°F depending on your goals for balancing comfort, payback and emissions reduction.

## Precedent® performance: it's in the details.

Precedent heat pumps meet or exceed all new standards for energy efficiency. Heat pump technology supports decarbonization goals. Every new Precedent unit offers the same features and benefits, regardless of capacity or configuration.

- **Optional modulating hot gas reheat** provides effective dehumidification, controllable by relative humidity or space dew point.
- **Two-speed air flow** is now standard with options for single zone or multiple zone VAV.
- **Simplified maintenance:** no fan belts to adjust and replace, filters are easy to remove, convenient hinged access to the control panel, remote diagnostics and maintenance enabled by our Symbio® 700 controller.
- **Coil guards are now standard** providing increased protection.
- **Enhanced air filtration options**, including 2-inch MERV 8 or MERV 13 filters.
- **Simplified retrofits and replacements:** most new Precedent models fit within the same footprint and adapter curbs as existing units.
- **Efficient heating:** dual fuel up to 4 stages (2 stage heat pump / 2 stage gas).
- **Longer warranties**, including a 3-year parts warranty for more peace of mind.



## Symbio® 700 Controls

Building connectivity will become increasingly more common within the unit's lifespan. Precedent's digital Symbio® 700 controller optimizes unit performance and simplifies operation—while ensuring seamless integration into Trane and non-Trane building automation systems (BAS).

- Symbio's intuitive user interface and data-rich mobile app make setup and troubleshooting quick and simple, clearly displaying system alarms, diagnostics and resolutions.
- Symbio's enhanced defrost cycle logic provides optimal comfort, performance and reliability.
- Gain seamless integration into any building automation system leveraging open standard protocols, such as BACnet®/MS TP, BACnet/IP or MODBUS RTU, TCP/IP or LonTalk. (Requires Symbio Advanced license)
- No BAS in place? No problem. Trane Connect can give you secure remote access to your Precedent and digital services from the unit controller.



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