

Trane Zoned Rooftop Systems combine packaged rooftop units, VAV terminal units, a Tracer Concierge™ system control panel, and Air-Fi® Wireless controls into pre-engineered systems that deliver cost-effective comfort, energy efficiency and are easy to install and operate. The system types range from single-zone to multiple-zone with various options for airflow modulation, cooling and heating.



Target Markets

Many light commercial buildings have traditionally used several single-zone systems with thermostats – often because better systems were thought to be too complicated and/or too expensive to install. Because Trane Zoned Rooftop Systems are easy to apply and install, they can be cost-competitive with other system alternatives, while providing better energy efficiency and remote access.

Some common building types that are ideal targets include:

- Small office buildings
- Schools
- Religious facilities; churches
- Retail/restaurants
- Banks
- Car dealerships
- Healthcare: small MOB/clinics
- Light Industrial; mixed office/warehouse



System Benefits

Cost-effective superior comfort for small buildings

Systems are available in single- or multiple-zone configurations to provide comfort control for different areas of the building with varying comfort needs. Integration with Tracer Concierge and Air-Fi Wireless controls allow flexible sensor locations and accommodate future space use changes.

Easy to design, install and operate

Packaged rooftop units provide cooling, heating, and ventilation in a single piece of equipment, simplifying system design, installation, and maintenance. Pre-engineered components and factory-installed controls enable on-time and on-budget installation.

Efficient system operation

Trane rooftop units are available in a range of efficiency tiers to match any budget and energy use goals. Integrated demand-controlled ventilation and economizer free cooling further reduces energy use.



Application Considerations

There are several system types available, with different costs, benefits and limitations. It is common to use more than one system type in a building.

	Single-Zone Systems		Multiple-Zone Systems			
	Constant Volume	Single-Zone VAV	Changeover Bypass	Changeover VAV	VAV with Terminal Electric Heat	VAV with Terminal Hot-Water Heat
Number of Zones Served	Single Zone Only	Single Zone Only	Multiple Zones	Multiple Zones	Multiple Zones	Multiple Zones
Supply Fan Speed Control	Constant-Speed	Variable-Speed (or Two-Speed)	Constant-Speed	Variable-Speed	Variable-Speed	Variable-Speed
VAV Terminal Units	Not Applicable		Required (Available with Optional Heat)		Required (with Electric Heat)	Required (with Hot-Water Heat)
Bypass Damper	Not Applicable		Required	May be Required	Typically Not Required	
Pivot™ Smart Thermostat	X	Two-Speed Only	Not Applicable			
Tracer® Concierge™	X	X	X	X	X	X



Packaged rooftop units (3 to 25 tons)

- Pre-engineered, factory-assembled cooling, heating, and ventilation in a single piece of equipment
- Supports single- or multiple-zone applications, with constant- or variable-speed fan control
- Three tiers of efficiency: standard, high, or ultra-high

VAV terminal units (200 to 8000 cfm)

- Trane flow ring provides unmatched airflow measurement accuracy and control
- Pre-programmed, factory-commissioned Tracer™ UC210 DDC controls with wired or Air-Fi® Wireless communications
- Options for electric or hot-water heat, with staged or modulating control

Tracer Concierge™

- Intuitive, easy-to-use operator interface on a 10-inch touchscreen display
- Mobile apps allow access from anywhere
- Wired or Air-Fi® Wireless communications
- Standard, pre-packaged applications with optimized system control sequences

Air-Fi® Wireless controls

- Eliminates wires between equipment controllers and zone sensors, and between equipment and system controllers, allowing for faster installation, increased location flexibility, and easier relocation
- Self-healing wireless mesh and extended signal range maximize reliability



The one-minute message:

Trane® Zoned Rooftop Systems provide light commercial customers with cost-effective options to increase comfort and energy efficiency, while simplifying operation and maintenance. These packaged system solutions make advanced functionality affordable and easy for non-technical users to operate.



Resources:

- Zoned Rooftop Systems catalog, APP-PRC005-EN
- Zoned Rooftop Systems sell sheet, ENV-SLB024-EN