



# *Delivered VAV*

*A low-cost, small tonnage VAV system*



## What is Delivered VAV?

Delivered VAV is the Trane low-cost, small tonnage, variable air volume (VAV) system. This system design offers prematched components that make it easier for contractors to install, start-up, commission, and deliver comfort to your building.

The simplicity of a Delivered VAV system starts with cutting-edge technology from Trane. You benefit from increased energy savings and improved comfort for your building occupants.

### Cutting-edge technology

- Simple system access is provided through a graphical touch-screen operator interface.
- Scheduling is easy with a built-in, 7-day time clock.
- Room thermostats have easy-to-read digital displays.
- One central control panel can monitor and control up to 32 individual zones.



*Pictured are the components of a Delivered VAV system: Voyager Commercial VAV Rooftop, VariTrane VAV Terminal Units, and VariTrac Central Control Panel with Operator Display*

### Energy savings

- Rooms with intermittent use are monitored by energy-saving sensors, allowing the system to heat or cool only when needed.
- The fan pressure optimization feature allows the fan to work less during times of lower heating and cooling loads. The rooftop runs at reduced capacity, thus saving energy.

### Enhanced indoor air quality

- Indoor air quality is enhanced by CO<sub>2</sub> sensors located in one zone, or throughout the building. Sensors communicate CO<sub>2</sub> levels to the central control panel and fresh air is delivered to the zone as needed.

### Contractor ready-to-go systems save \$\$\$

- Factory-installed unit controls have integrated temperature and pressure sensors, and communicating controllers.
- A quick, easy-to-use Windows™-based program can access advanced features found in more expensive BAS software.
- Contractors spend less time on the job. The system automatically locates all components on start-up, builds an operating database, and then starts the HVAC system.
- Contractors prepare the system for balancing by pushing one button on the panel or by clicking one button in the software.

### Increased comfort and efficiency

- Features like morning warm-up, daytime warm-up, and discharge air temperature reset allow the system to meet building heating and cooling needs and still maintain efficiency.

## The Delivered VAV system . . .

A Delivered VAV system includes three Trane products designed to work together seamlessly, right out of the box.

### A Voyager™ commercial VAV rooftop

- Available in five sizes, 27½ to 50 tons
- Contains Trane-engineered microelectronic controls
- Features variable frequency drives or inlet guide vanes
- Uses a communications interface

### B VariTrane™ VAV terminal units

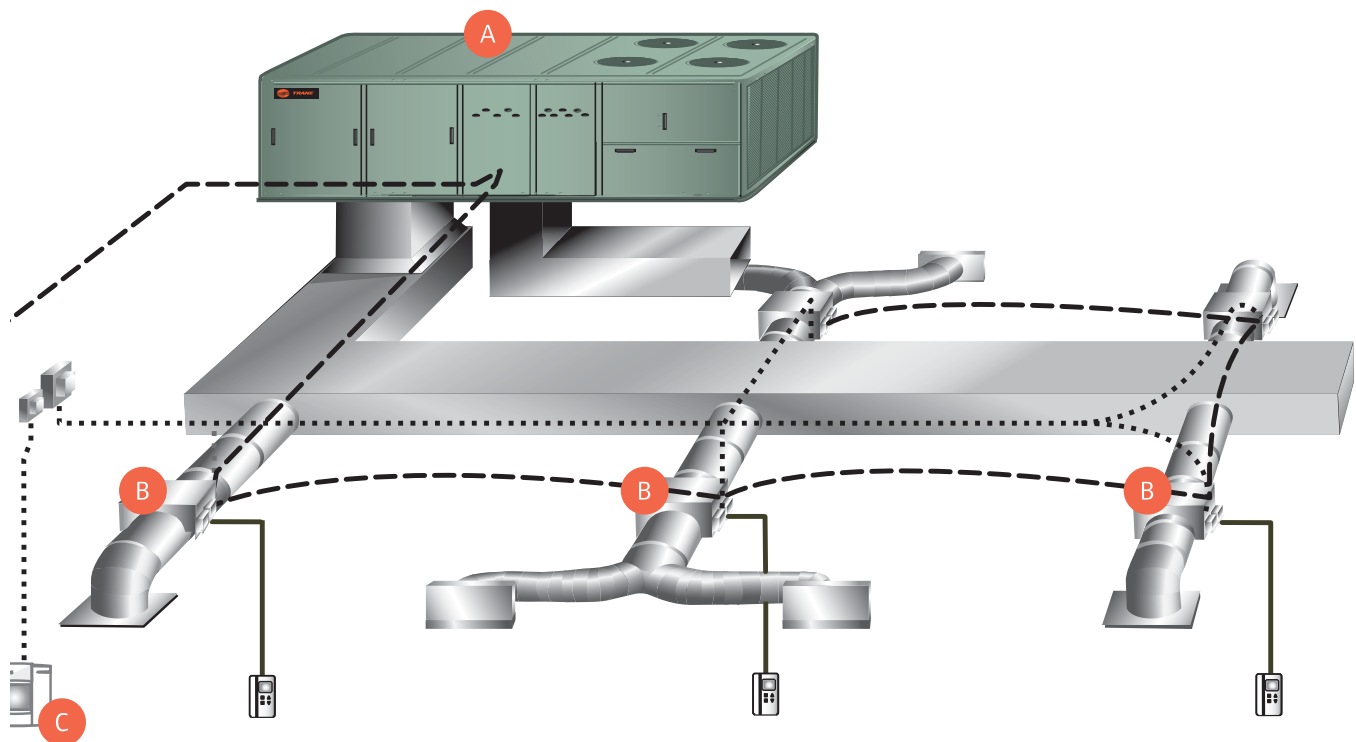
- Adaptable to diverse applications and environments
- Available as single-duct or fan powered boxes with optional, factory-installed local heat

### C VariTrac™ central control panel

- Features an easy-to-use touch-screen operator display
- Provides complete HVAC system status
- Allows easy access to temperature setpoints and schedules

### Delivered VAV system features

- Automatic configuration and start-up
- Morning warm-up and daytime warm-up
- Discharge air temperature control
- Discharge air temperature reset
- Supply air pressure control and pressure limiting
- Fan pressure optimization
- CO<sub>2</sub>-based demand control ventilation



#### Legend

- Communications Link (2 cond, Level 4 comm wire)
- ..... 24 Vac
- Sensor wiring



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