



Introducing Today's VariTrane®

Leadership Redefined

The Trane Company is pleased to introduce a breakthrough in Variable Air Volume (VAV) technology – the new VariTrane VAV terminal unit. VariTrane units are manufactured in the most state-

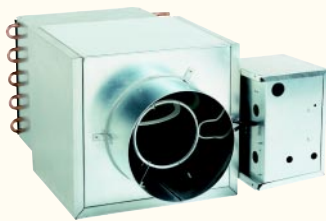
of-the-art VAV facility in the world. Proven components, such as the patented Trane flow ring and the VariTrane DDC controller, are used. Patent-pending manufacturing techniques are

implemented to provide the most rugged and reliable VAV unit in the industry. All products are UL listed for safety and provide proven performance via accepted industry standards like ARI-880 and 885.

The Flexibility of VariTrane

Today's VariTrane units are designed for diverse applications and environments. Uses range from the smallest buildings to the most complicated and rigorous applications. The energy-saving merits and reliability of VAV systems and system-level controls has initiated expansion into buildings previously reserved for less efficient systems.

Applications include office spaces, hospitals, movie theaters, hotels, retail stores, malls, extended-care facilities, and educational facilities. VariTrane terminal units provide the most reliable and flexible products available.



All VariTrane units include:

- Trane flow ring for unmatched airflow measurement accuracy
- Heavy gage air valve cylinder
- Interlocking panels which create an extremely rugged unit
- Insulation edges are encapsulated with metal
- UL and CUL listing
- Fusing and disconnects (optional)
- Control power transformers (optional)

Single-Duct and Dual-Duct Terminal Units:

- Single-duct reheat options include water or electric heating coils
- Unit sizes provide 0 to 8000 nominal cfm
- Access for water coil cleaning
- Factory-commissioned Trane controls
- Factory installation of customer supplied controllers
- Slip and Drive connections as standard

Fan-powered Terminal Units:

- Parallel intermittent fan and series continuous fan configurations
- Complete reheat options include water or electric heating coils
- Fan sizes provide 200 to 3000 nominal cfm
- Single-speed motor with SCR is standard for simplified system balancing
- Optional high efficiency ECM motors
- Low-height models for critical plenum requirements

See what makes today's VariTrane Units the best. Ever.



Controls – The Trane factory installs more VAV controllers than any other manufacturer in the industry. For the highest quality and reliability, demand Trane controls.

Flow Ring – The patented Trane flow ring provides unmatched airflow measurement accuracy and unit performance. It is recessed within the 18-gage air valve cylinder for maximized jobsite handling protection.

Air Valve – Designed to limit inlet deformation and provide consistent and repeatable airflow across the flow ring.

Interlocking Panels – Ruggedness and rigidity are assured with Trane's patent-pending interlocking panel construction. It creates unmatched unit rigidity.

External Shaft – Comes with Air Valve Position Indicator for easier service diagnostics. An external shaft also simplifies mounting of all brands of controllers.

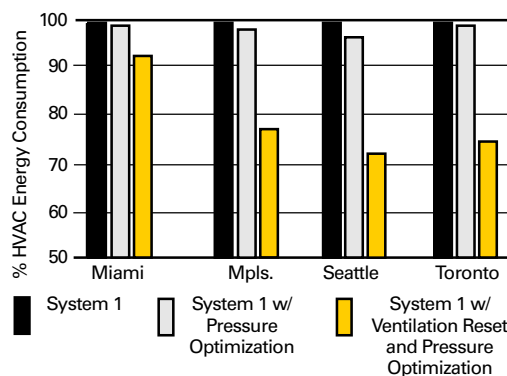
Fan Controls – Now comes with a standard SCR used for fan-speed control and system balancing.

Metal Encapsulated Edges – All VariTrane Units are complete with encapsulated edges to arrest cut fibers and prevent erosion in the airstream. This raises the bar in the VAV industry.

Integrated Comfort Systems (ICS) – VAV systems emerged during the oil embargo of the early 1970s to increase building efficiency. Trane's Integrated Comfort System (ICS) combines VariTrane VAV terminal units, Trane DDC controls and factory-commissioning. Trane ICS enables system-level control strategies like Ventilation Reset and Static Pressure Optimization to improve system performance and efficiency. It's like fuel injection in a car's engine. A gravity fed carburetor will provide gas to your car's engine, but fuel injection does it in the most efficient manner, while boosting horsepower. ICS is just that – a horsepower and efficiency boost for your VAV system!



Energy Efficiency – A significant consumer of energy in commercial buildings is heating and air conditioning. One of the most energy efficient HVAC solutions is the VAV system. This has led to a steady increase in VAV systems over the past several years. VAV systems save significant energy, comply with ventilation requirements, and provide reliable and personalized occupant comfort.



(Analysis performed with Trace[®] 700 building energy and economic analysis software.)

Energy-saving features of the Trane VAV terminal units include:

- System strategies like Ventilation Reset, and Static Pressure Optimization, etc.
- Night setback
- Occupied/unoccupied control
- Demand controlled ventilation

Summary – An integrated system is essential for complete building environmental comfort and system efficiency. Through the use of factory-commissioned controllers, and the existing capabilities of the DDC system, additional energy-saving strategies can be implemented. At the same time, the system maintains the highest reliability in the industry. Call your local Trane Sales Office for additional details.



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Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.