Self-Contained Unit Ventilators

A Short Course In
Choosing The Right
HVAC System
For Schools
Features and Benefits

I. Factory-mounted controls
   1. All Trane self-contained unit ventilators are equipped with run-tested, factory-mounted digital controls to assure consistent operation within the individual heating, cooling and ventilation demands of each school.
   2. Our factory-engineered controllers reduce installation costs, start-up time, potential mistakes and liability. And they are fully compatible with the Trane Tracer Summit® integrated comfort systems for automated monitoring, diagnostic and building control capabilities from one convenient location.

II. Easy installation
   1. Trane self-contained unit ventilators don’t require any ductwork or piping so they’re easier and less expensive to install. Simply cut an opening in the wall, push the unit in, and apply power. This unique feature makes them ideal for new construction, replacement and renovation applications.
   2. It also reduces the floor-to-roof height required on the building thereby providing incremental cost savings.

III. Easy to maintain and service
   1. Along with ease of installation, Trane self-contained unit ventilators are also easy to maintain and service.
   2. Each unit features a two-piece front panel design for easy access to all major components, indoor service access, and complete end panel access, which significantly reduces service time requirements.

IV. Institutional quality
   1. Trane self-contained unit ventilators are built to withstand the rigors of a classroom environment. Each heavy gauge sheet metal cabinet has a scratch-resistant, appliance-grade finish, and a pencil-proof grill.
   2. And all moving parts are out of the students’ reach.
Removable, non-ferrous, sloped indoor drain pan
Facilitates cleaning and minimizes microbial growth.

Tangential fan
Provides uniform air distribution over the coil to reduce noise levels.

Standard sized filters
Facilitates maintenance.

Isolated compressor
Absorbs noise from compressor for quiet operation.

Two-piece front panel design
Provides easy service access to all components.

Pencil-p
Keeps pencils and other small objects in the


**Factory-provided and mounted controls**
Reduces installation costs, start-up time, potential mistakes, liability and “finger pointing” between vendors if problems occur.

**End panel access**
Enables complete side access.

**Locking control cover**
Prevents tampering with control settings, yet still allows easy access by authorized personnel.

**Additional Design Features**

**Service access**
Provides access to the outdoor coil and fan assembly.

**Durable cabinet design**
Constructed from heavy 16-gauge galvanized steel, painted with an electrostatically applied scratch-resistant powder spray finish.

**No piping or ductwork required**
Each unit features its own cooling and heating source so installation is easy for new construction, replacement and renovation applications. A hot water coil is also available as an option when applicable.

**Integrated Comfort™ system compatibility**
Factory-mounted controls can be operated stand alone or as part of a Trane Integrated Comfort system for monitoring, diagnostics and building control from one location.

**Insulated barrier between the outdoor fan and the interior section**
Blocks noise between sections.

**Multiple fan speeds**
Teacher-accessible fan controls feature maximum speed for extreme temperatures and normal speed for daily operation.
For over 50 years, Trane has been a leading manufacturer of quality and comfort in unit ventilators and our self-contained products carry on this tradition. Trane’s self-contained unit ventilators are designed specifically for schools to meet the HVAC, environmental, acoustical and cost concerns of designers and school administrators for both new replacement and renovation applications.

**Better acoustics**

Better classroom acoustics create a better environment for learning and Trane® self-contained unit ventilators are the quietest on the market. Each self-contained unit ventilator comes complete with many standard features that minimize sound levels in the classroom, which may ultimately lead to an increase in student productivity.

Our unique tangential fan technology provides uniform air distribution over the coil, which minimizes sound levels and increases output efficiency. Each unit is also equipped with multiple fan speed controls, accessible by the teacher, for normal and ultra-quiet operation. They also feature acoustically lined discharge ducts and acoustically treated compressor sections to help maximize sound absorption.

**IAQ compliance**

Good indoor air quality is important for learning. That’s why all Trane HVAC products meet or exceed ASHRAE Standard 62-1989 requirements for good IAQ. Our self-contained unit ventilators comply with ASHRAE standards for contaminant source control and offer 100% economizing capability for fresh air ventilation, filtration and cleanable insulation. They also have non-ferrous, removable, cleanable sloped drain pans that increase drainage and decrease the potential for microbial growth, which can impair learning in the classroom.
Why you should choose Trane self-contained unit ventilators

Trane self-contained unit ventilators are available in a variety of configuration and component choices to meet the needs of your school. Choose from air conditioning with hot water heat and heat pump units. Each unit is available in seven sizes ranging from 2 to 4.5 tons and comes in eight attractive colors.

Aesthetically pleasing design

The functional cabinet design of Trane self-contained unit ventilators eliminates the need for bulky roof-mounted equipment. Unlike the design of other systems, our unit is partially recessed inside and hidden by an attractive architectural grill on the outside, so it’s more aesthetically pleasing. And each unit comes in a variety of attractive cabinet colors and shelving options that complement any classroom.

Trane sales engineers

Trane has over 80 years of application and design experience with indoor comfort systems. Our offices are staffed with HVAC engineering professionals ready to work with you and your system designer on new construction, replacement and renovation projects to help you determine the best solutions for your schools. Make Trane a part of the team on your next project. Visit our web site at www.trane.com or contact your local Trane sales office today.