

Single-Packaged Vertical Unit Ventilators

VENTILATION, HEATING, AIR CONDITIONING & DEHUMIDIFICATION IN ONE



PRODUCT DESCRIPTION

The ClassMate® DX Cooling and Heat Pump and the SchoolMate® Ground Source and Water Source Heat Pump Single Package Vertical Unit Ventilators are engineered for high efficiency, quiet operation, and a small footprint. The optional STUDY Package increases acoustical performance and achieves the highest standard of noise reduction in the classroom.

- Evaporator coil designed for maximum heat transfer with minimum footprint and pressure drop
- Units are ETL design certified for use in both the US and Canada and conform to the latest applicable UL 60335 and CSA C22.2 standards
- Easy service and installation
- Front access to all components
- No plenum required for additional hot gas reheat, hot water, or electric coils
- Up to MERV-13 filtration

SINGLE-PACKAGED VERTICAL UNIT VENTILATORS

ClassMate® Air Conditioning & Heat Pump Unit

- CMD (DX Cooling), CMP (Heat Pump) and CMS (Split Fan Coil)
- Model sizes: 24, 36, 48, and 60 Nominal MBH
- All models meet or exceed the DOE minimum requirement of 11.0 EER

SchoolMate® Ground Source and Water Source Heat Pump Unit

- SMG (Ground Source Heat Pump) and SMW (Water Source Heat Pump)
- Model sizes: 24, 36, 48, and 60 Nominal MBH
- Performance tested in accordance with AHRI/ISO Standard 13256-1

STANDARD FEATURES

	ClassMate®	SchoolMate®
2 stage hermetic scroll compressor mounted on vibration isolators for quiet operation	✓	✓
ECM fan technology balances performance, sound and efficiency	✓	✓
Designed and optimized for R-410A refrigerant (R-454B available by January, 2025)	✓	✓
Modulating economizer damper providing 100% free-cooling and minimum fresh air requirements	✓	✓
20 gauge and 16 gauge aluminized steel casing options with a durable polyester powder coat paint finish	✓	✓
MERV 8 and MERV 13 filter options - 2" radial pleated disposable cotton and synthetic blend filters	✓	✓
Powered relief	✓	Optional
Gravity damper		✓
Copper coaxial coil		✓
Coaxial coil factory installed piping options (auto flow valve, strainer and ball valve, hose kit)		✓

OPTIONAL FEATURES

Sound-reducing compressor acoustic wrap	✓	✓
Factory supplied BACnet compatible controls	✓	✓
Energy recovery wheel with up to 100% economizer capability	✓	✓
In-unit electric heat or hot water heating	✓	✓
Plenum mounted steam heating coil	✓	✓
Hot gas reheat for dehumidification control	✓	✓
Hot water valve and piping packages	✓	✓
Baseboard heat control with Modine Controls (2 - IO Vdc Modulating, Single-Stage, and Two-Stage)	✓	✓
Needlepoint Bipolar Ionization for air cleaning	✓	✓



CLASSMATE® AND SCHOOLMATE® VERTICAL UNITS ARE AVAILABLE WITH STUDY PACKAGE

- The highest standard in classroom noise reduction
- Lined with multi-layered premium foam insulation to minimum noise levels
- Reduces noise by up to 7 dB(A)
- Can be used to meet LEED prerequisites

As Modine Manufacturing Company has a continuous product improvement program, it reserves the right to change design and specifications without notice.



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