

Sentinel® Vertical Unit Ventilator

UPRIGHT ALTERNATIVE TO UNDER THE WINDOW UNIT



PRODUCT DESCRIPTION

The Sentinel® Chilled Water/Hot Water Vertical Unit Ventilator (VUV) improves on a tried-and-true under-the-window unit ventilator product line. The unit is engineered to provide enhanced fresh ventilation air capabilities, quiet and energy efficient operation, and a small footprint in a vertical package to minimize floor space used.

- Model Types: UVV (Valve Control) or UVD (Face & Bypass)
- Available in 30, 40, 50, 60 and 80 nominal MBH
- Available as:
 - Chilled Water only
 - Hot Water only
 - Chilled Water/Hot Water (two-pipe or four-pipe configuration)
 - Chilled Water with Plenum Mounted Electric Heat
- High Humidity option with Chilled Water Outside Air Pretreatment Dehumidification Coil and Dedicated Outside Air Fan with options for Electric or Hot Water Preheat
- Available with Modine Controls System with options for BACnet BMS controls integration
- Factory installed control valves and piping packages
- Single and three-speed fan control
- Primary 2" filters (up to MERV 13) and 1" outside air filters for pretreatment coil
- Provides proper amount of fresh air to the classroom while minimizing energy consumption

SENTINEL® CHILLED/HOT WATER UNIT VENTILATOR

The Sentinel® unit ventilator is the perfect solution for schools that have to improve the indoor air quality of their classrooms. It operates in conjunction with a school's central chiller/boiler plant.

System	Feature	Sentinel®	Sentinel® High Humidity
Cooling & Heating	Primary 6 row chilled water coil	Option	Standard
	1 or 2 row hot water coil	Option	Option
	Plenum mounted 5-18kW electric heat, staged or modulating SCR control	Option	Option
	Valve or Face & Bypass control	Option	Valve Only
	Hot water and/or chilled water valve and piping packages (for valve control units)	Option	Standard
Cabinet	Aluminized steel casing with a durable polyester powder coat paint finish	Standard	Standard
	Components are accessible through the lockable, hinged front door for ease of serviceability	Standard	Standard
	Supply air fan with EC motor designed for high efficiency and low noise (750-2000 CFM nominal airflow)	Standard	Standard
	2" radial pleated disposable cotton and synthetic blend filters (up to MERV 13)	Standard	Standard
Ventilation	Modulating economizer damper providing 100% free-cooling and meeting minimum fresh air requirements	Standard	N/A
	Powered or gravity relief	Option	N/A
	Energy recovery wheel with economizer capability	Option	N/A
High Humidity Option	Chilled Water Outside Air Pretreatment Dehumidification Coil ¹	N/A	Standard
	Dedicated Outside Air Fan with EC motor ²	N/A	150 - 500 CFM
	1" outside air filters for pretreatment coil (MERV 8)	N/A	Standard
Controls	Modine Controls System (with or without BACnet interface capability)	Option	Option
	Single speed fan control	Standard	Standard
	Three-speed switch, controller three-speed control, or 0-10Vdc control	Option	Option

1. The outside pretreatment coil has options for coil freeze protection for environments that may experience sub-freezing outside air temperatures (recommended for OA 37F and below).

2. The outside air pretreatment coil can dehumidify outside air (up to 500 CFM) before the air mixes with return air.



SENTINEL® VERTICAL UNIT VENTILATOR HIGH HUMIDITY PACKAGE

- Enhanced dehumidification capability in humid climates such as the Gulf Coast states
- Dedicated outside air pretreatment coil
- Outdoor air fan to ensure the specified volume of outdoor air
- One-row hot water coil or electric heat is available for freeze protection
- Hot water or plenum mounted electric heating options

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