

Sentinel® High Humidity Unit Ventilator

OUTSIDE AIR DEHUMIDIFICATION PRETREATMENT COIL FOR HIGH HUMIDITY CLIMATES



Product Specs

- Available in 30, 40, 50 and 60 nominal MBH sizes
- Chilled water or combination chilled water/hot water (two-pipe or four-pipe configurations) primary coil
- Chilled water outside air pretreatment coil with options for electric or hot water preheat.
- Dedicated outside air damper and outside air fan
- Available with Modine Controls System with options for BACnet or LonWorks BMS controls integration capability
- Factory installed control valves and piping packages
- Three-speed switch
- Aluminized steel casing with a durable polyester powder coat paint finish
- Primary 2" filters (up to MERV 13) and 1" outside air filters for pretreatment coil
- Designed, Engineered & Assembled in the USA

Sentinel® Solution for Humid Climates

Providing cool, comfortable air can be an engineering challenge in climates where high humidity is present throughout the year. A single six row cooling coil may not be sufficient to provide the proper humidity control and maintain a comfortable room temperature in a classroom environment. The Sentinel High Humidity is designed to provide enhanced dehumidification capability in humid climates such as the Gulf Coast states.

The Sentinel High Humidity utilizes a dedicated outside air pretreatment coil for dehumidification of outside air (up to 500 CFM). Includes a dedicated outside air fan to ensure the specified volume of ventilation air is introduced into the space. The dehumidified outside air is mixed with the return air before passing through the primary coil where it is further cooled and dehumidified. In regions with sub-freezing temperatures, freeze protection is required on the pretreatment chilled water coil. For freeze protection, a one row hot water coil or electric heat are available.

Product Cooling Configuration	Sentinel®	Sentinel® High Humidity
Primary Chilled Water Coil	✓	✓
Single Supply Air Fan	✓	✓
Outside Air Pretreatment Chilled Water Coil	✗	✓
Dedicated Outside Air Fan	✗	150 - 500 CFM

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



Engineered for high humidity climates

- Recommended for Southeastern/Gulf Coast States
- Dedicated outside air pretreatment coil for dehumidifying outside air
- Comfort, ventilation, quiet operation