The latest addition to Valent's fleet of products, the VPRC series with an enthalpy core heat exchanger, expands on an already impressive breadth of energy recovery technology.

**BENEFITS**

**Sensible & Latent Energy Recovery**
- Cross-flow core heat exchanger transfers both sensible and energy between airstreams
- Sized to meet or exceed ASHRAE 90.1 minimum effectiveness of 50%

**Reduced Maintenance Requirements**
- No additional moving parts required to transfer energy between airstreams
- Heat exchanger assembly easily cleaned with non-pressurized water
- Microban® antimicrobial protection to prevent the growth of bacteria and mold

**Extremely Low Cross Contamination**
- 0% exhaust air transfer ratio as determined by AHRI 1060

**Enhanced Durability**
- Polymer membrane capable of freezing without damage

**SCOPE**
- Packaged rooftop ventilator with air-to-air enthalpy core heat exchanger transferring sensible and latent energy
- 1,000 to 12,000 cfm
- 5-60 nominal tons of packaged air-cooled refrigeration
- Available with modulating indirect gas furnace, SCR electric heater, or hot water coil
**OPERATION**

Unlike an enthalpy wheel, the core heat exchanger in the VPRC does not require a motor or drive mechanism in order to transfer energy between the outdoor and return airstreams. Energy transfer occurs naturally through the movement of air with differing temperatures and moisture levels through opposite sides of the heat exchanger.

**FROST CONTROL**

Like most energy recovery technologies, the core heat exchanger is susceptible to freezing at very cold ambient conditions. In addition, the risk of freezing is much greater whenever the served space is humidified, increasing the need for a frost mitigation system.

To prevent the buildup of frost, the VPRC is available with an optional electric pre-heater for freeze protection. Located in the outdoor air stream ahead of the core heat exchanger, the electric preheater is enabled by the VPRC’s unit controller below an adjustable ambient temperature set point.

**THE VALENT ADVANTAGE**

Valent Air Management Systems is a manufacturer of feature-rich configurable ventilation equipment designed to address the needs of building owners, specifying engineers, and installing contractors. Valent units are built on a foundation of four key attributes: premium quality construction, comprehensive packaging, a thorough run-testing program, and powerful and flexible controls packages.

**APPLICATIONS**

The VPRC is best suited for applications where enthalpy wheels are commonly used but in situations where there is an aversion to wheel technology.

- K-12 education
- Higher education
- Commercial buildings
- Multi-unit residential
- Healthcare
- Assisted living

**PRODUCT RANGE**

The VPRC is available in the following standard casings and airflow ranges.

<table>
<thead>
<tr>
<th>Casing</th>
<th>Min Airflow [cfm]</th>
<th>Max Airflow [cfm]</th>
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