



Introducing High Airflow Refrigeration Systems

Valent's high airflow refrigeration systems are designed to provide optimal performance at higher airflows while using many of the same high-value features found in our dehumidification ventilators.

BENEFITS

Lower Internal Pressure Losses

- Increased evaporator coil face area reduces internal pressure drop

Expanded Operating Range

- Increases maximum airflow range to 550 cfm/ton

Improved Efficiency

- Improved refrigeration performance and reduced pressure drops increase EERs

SCOPE

- Redesigned refrigeration system for higher airflows and lower entering air loads
- Accommodates entering air volumes up to 550 cfm/ton
- Available in the 110, 210, 310, and 350 casings

APPLICATIONS

The high airflow refrigeration system is designed to be used in applications with smaller or less frequent dehumidification loads.

- When handling high outdoor air volumes in arid climates
- When air-to-air energy recovery is used to reduce the dehumidification load
- When handling a high percentage of recirculated air



DEHUMIDIFICATION REFRIGERATION SYSTEM

Valent's dehumidification refrigeration systems are designed with high-value features to dehumidify a wide range of entering air conditions. Standard is a six row evaporator coil to effectively remove moisture from the incoming supply airstream. Coil capacity is metered through the use of a Digital Scroll™ compressor, controlled to the leaving air temperature off the evaporator in dehumidification mode. Mounted a minimum of six inches downstream of the evaporator coil to prevent water-carry over is a high-efficiency reheat coil, part of Valent's fully-modulating hot gas reheat system.



HIGH AIRFLOW REFRIGERATION SYSTEM

Although it shares many of the features of the dehumidification refrigeration system, Valent's high airflow refrigeration system is optimized for lower entering air load densities. Common among systems are Digital Scroll™ compressors, Active Head Pressure Control, and modulating hot gas reheat. However, instead of a six row evaporator, a four-row coil with an expanded face area is used in the high airflow refrigeration system to reduce internal pressure losses.



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.

Contact your Valent representative today for more information.

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