

DEDICATED OUTDOOR AIR SYSTEM DESIGN

WHY CHOOSE VALENT?

Valent's highly configurable, dedicated outdoor air rooftop offers affordable quality in a package full of valuable features. Make Valent YOUR design choice.

ROBUST CABINET CONSTRUCTION

2", double wall, injected foam cabinets **create strength and a robust barrier** between treated and untreated air. High quality paint adds to the longevity and appearance of unit. Valent [casings](#) are designed to last for decades with reliable components like fully modulating dampers and welded aluminum fans.



ULTRA-QUIET CONDENSER FANS

When you need a quiet rooftop unit, choose Valent. Condenser fans with performance blades quietly cut through the air and are up to **12 dB quieter** than standard paddle fan blades. These quiet fans are a **standard feature!** Check out [valentair.com](#) actual [video footage](#) that lets you listen and compare noise levels.



INVERTER SCROLL COMPRESSORS

Given that HVAC systems spend the majority of their operating hours at part load, inverter scroll compressors with true modulation improve efficiency, resulting in an average **20% IEER improvement**. VFD-driven inverter scroll motors are also **quieter**. [Read more](#) at [valentair.com](#) about this standard feature.



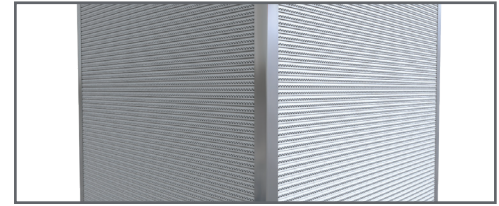
FULL WIDTH ENERGY WHEELS

Valent units utilize [energy recovery wheels](#) that **span the entire width of the cabinet for maximum energy efficiency**. All outdoor air should flow through the wheel during normal operation. Short-circuiting outdoor air around the wheel reduces energy efficiency and drives the need for larger mechanical cooling components.



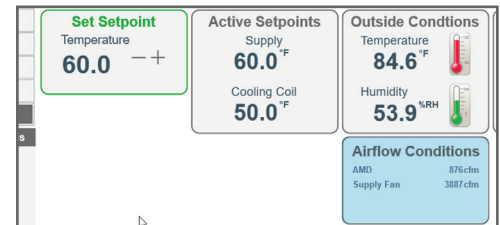
ENTHALPY CORE — NO MOVING PARTS

Valent's [enthalpy core heat exchangers](#) are a low maintenance energy recovery option. With an exhaust air transfer ratio (EATR) **of less than 1%**, cross-contamination risk is low. This energy recovery option is a great choice for buildings with limited on-site maintenance staff.



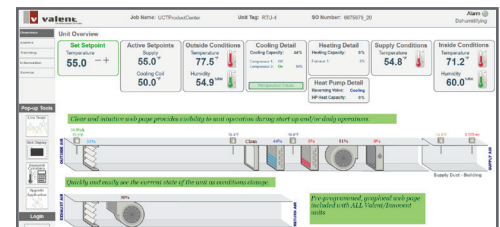
AIRFLOW MONITORING

Measuring actual air flow is imperative for **proper ventilation** and appropriate amounts of outdoor air. [Air flow measurement](#) helps determine if the unit is operating at design airflow and meeting ventilation codes.



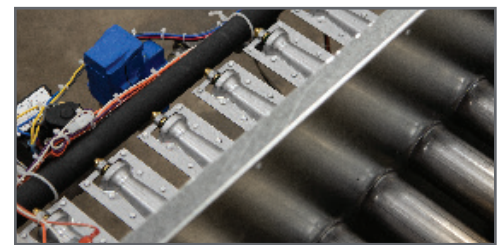
EASY, EFFICIENT CONTROLS

Dedicated outdoor air systems are exposed to a wide range of operating temperatures. Valent's factory mounted controls optimize unit performance in all conditions and **provide valuable operating data** with a standard [Web User Interface](#).



HIGH TURNDOWN FURNACES

Valent's [16:1 high turndown furnaces](#) enable **precise control of discharge air temperatures** even at part load conditions. High outdoor air units experience large entering air temperature swings with varying airflow demand driving the need for a high turndown furnace. Let Valent help you avoid over-heated spaces and shortened furnace life.



LEARN MORE

- Contact your [Valent Representative](#) to learn more about Valent's valuable features.
- Visit the [Valent website](#) for more information about our [products](#) and [applications expertise](#).
- Download Valent brochures and datasheets on the [Valent website Resources](#) page.



OUTDOOR AIR EXPERTS | ROBUST DESIGNS | DEDICATED SUPPORT

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