

## VHC Series Energy Recovery Ventilators

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*800 to 5,500 cfm Supply Airflow*



The VHC Series unit is a light commercial product offering with a full list of custom options that make it the choice for flexible and cost-effective 100% outdoor air (OA) constant supply air volume DOAS system between 800 and 5,500 cfm. The cabinet is constructed with fiberglass insulation as standard (rigid insulation optional). The equipment features a high performance enthalpy wheel, certified to AHRI Standard 1060, that can be custom selected for multiple performance levels to meet your requirements.

### VHC Series Advantages

- Semi-custom, constant supply air volume, 100% outdoor air system
- High performance, AHRI Certified™ enthalpy wheel for energy recovery
- Integrated heating and cooling
- Quick Ship option available
- Custom-level of configurability wrapped in a cost-effective light commercial package

See reverse side for a list of VHC features and benefits.



# VHC Series: Flexible, Cost Effective 100% Outdoor Air



## VHC Series Features and Benefits

The VHC unit is suitable for both indoor and outdoor applications and features an integrated base rail for strong structural integrity. The unit includes a Direct Digital Controller (DDC) to provide complete integration with existing BMS and network systems.



DDC Controls

Frost control options include:

- Electric preheat
- Recirculation
- Exhaust only
- Variable Speed Drive (VSD)

Post conditioning cooling options include:

- Non-integrated chilled water or split direct expansion (DX)
- Integrated air cooled direct expansion (DX)
- Integrated water source heat pump or ground source heat pump

Post conditioning heating options include:

- Indirect fired gas heat
- Hot water coils
- Steam coils
- Electric reheat
- Integrated water source heat pump or ground source heat pump

## Energy Efficient Design

VHC Series units are engineered for maximum efficiency and deliver the highest Combined Efficiency (CEF) not just by having a high performance enthalpy wheel, but also by including a variety of options that, when combined, provide the highest application energy efficiency ratio (EER) on the market:

- Minimum Outdoor Air Correction Factor (OACF) to eliminate unwanted OA requirements
- Variable Refrigerant Control<sup>®</sup> (VRC) for superior temperature control, part-load operation and the elimination of hot gas bypass
- Microchannel heat exchanger for all integrated air cooled packages for maximum efficiency in a compact, lightweight package
- High efficiency FANWALL<sup>®</sup> system plenum fans on the supply air (in larger VHC only) or high performance, centrifugal fans as needed
- Waterside economizer (WiSE) coils for free cooling and heating



## Why Venmar CES™ is the Choice for Energy Recovery

The Venmar CES brand is well known as a pioneer in commercial air-to-air energy recovery ventilation. With more than 60 years of experience, we are committed to providing cost-effective HVAC solutions and to being our customers' first choice in creating quiet, comfortable, and healthy indoor environments.

Venmar CES is a brand of Nortek Air Solutions, LLC, a subsidiary of Nortek, Inc., a global diversified company whose many market leading brands deliver broad capabilities and a wide array of innovative, technology-driven products and solutions for lifestyle improvements at home and at work. Since Nortek Air Solutions has a policy of continuous product improvement, we reserve the right to change specifications without notice.



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