

VHC Series Energy Recovery Ventilators

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[®] (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[®] 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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