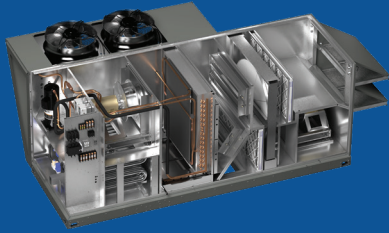


Model RVE



| | | |
|----------------|--|--|
| Wheel Material | Polymer | Aluminum |
| Airflow Range | 500-18,000 cfm | 1,230-13,320 cfm |
| Effectiveness | 70-80% | |
| Cross Leakage | 3-5% | |
| Frost Control | Timed Exhaust Modulating Wheel Electric Preheater | |
| Economizer | Stop/Jog Wheel Modulating Wheel Energy Wheel Bypass | |
| Maintenance | Removable segments - wash with mild detergent and low pressure tap water | Vacuum off surface, purge with compressed air, or wipe dust/particles from surface |

Model RVC



| | | |
|---------------|---|---|
| Core Material | Fiber | Polymer |
| Airflow Range | 500-6,500 cfm | 500-6,250 cfm |
| Effectiveness | 50-60% | 55-65% |
| Cross Leakage | 0-1% | |
| Frost Control | Timed Exhaust Energy Core Bypass Electric Preheater | |
| Economizer | Energy Core Bypass | |
| Maintenance | Vacuum off surfaces | Wash with mild detergent and low pressure tap water |

Optional Accessories

- Airflow Monitoring
- CO₂ Sensor
- Coatings for Corrosive Environments
- Damper End Switches
- Dirty Filter Sensor(s)
- Electric Preheater
- GFCI Outlet
- Needlepoint Bipolar Ionization (NPBI®)
- Roof Curb
- Room Thermostat
- Smoke Detector
- Ultraviolet Germicidal Irradiation (UVGI)

Common Applications

- Animal Shelters
- Conference Centers
- Dormitories
- Hotels
- Institutions
- Locker Rooms
- Multifamily Homes
- Nursing Homes
- Schools
- Veterinary Hospitals

Product Certifications



ETL Listed for electrical and overall unit safety. Every unit is tested at the factory before it is shipped to the jobsite.



RV, RVE, and RVC models with PDX or ASHP cooling are certified by AHRI to AHRI Standard 920, Performance Program DX-Dedicated Outdoor Air System Units.

The energy recovery devices in RVE and RVC models are certified by AHRI to AHRI Standard 1060, Performance Program Air-to-Air Energy Recovery Ventilators.



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DOAS



DEDICATED OUTDOOR AIR SYSTEMS



Models RV, RVE, and RVC

All Sizes

- 2-inch double-wall cabinet with R16 injected foam insulation
- RV: 500 - 29,200 cfm | RVE: 500 - 18,000 cfm
- RVC: 500 - 6,500 cfm
- Up to 4 in. wg ESP
- Ideal for 100% outdoor air, variable air volume, and single zone applications
- Optional recirculation damper for 20-100% outside air and night setback operation
- Optional total enthalpy core and total enthalpy wheel
- Direct drive, VFD driven, backward-inclined fans



Cooling

- Packaged direct expansion (3-100 tons), air-source heat pump (5-30 tons), chilled water
- Inverter scroll on lead compressor
- Modulating hot gas reheat for humidity control
- Low sound condenser fan
- Electronically commutated (EC) motor on lead or all condenser fan(s)

Heating

- Indirect gas-fired, electric, hot water, or air-source heat pump
- Up to 2,000 mbh heating capacity
- Up to 50:1 high turndown furnace



Optional Features

Energy Recovery

- Enthalpy Core | Fiber (5-30 tons) | Polymer (5-30 tons)
- Enthalpy Wheel | Polymer (3-70 tons) | Aluminum (5-70 tons)
- Frost Control options
- Economizer options

Air-Source Heat Pump

- 5 - 30 tons capacity
- High efficiency with standard inverter compressor
- Lead EC outdoor fan motor (standard feature) for modulating head pressure control
- Coefficients of Performance (COP) ranging from 3-4, contributing to lower annual energy costs

Horizontal Duct Connections

- Optional side or end return air intake
- Side discharge
- Eliminates the need for a costly, tall plenum curb



Unit Control Options

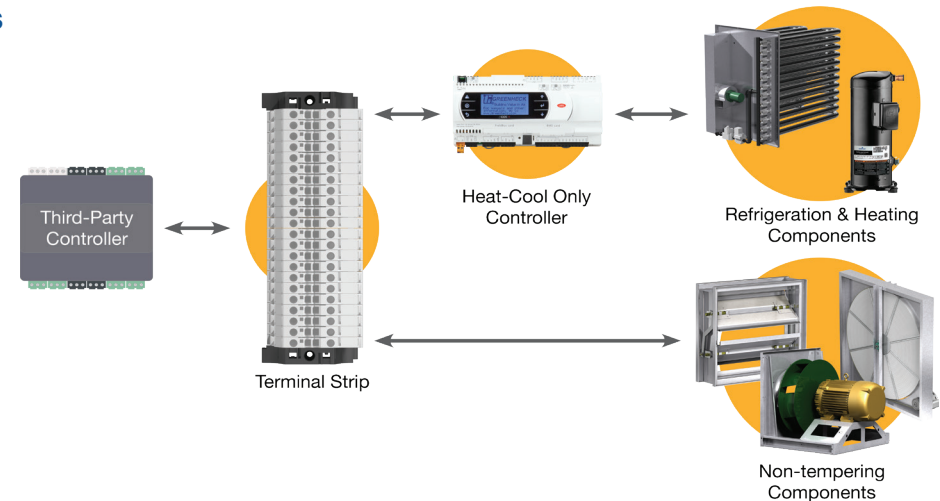
Web User Interface (UI)

Greenheck's microprocessor controller comes standard with a web user interface allowing the unit to be viewed and controlled from a web browser. A full graphic, specific to the unit selected, allows for monitoring and control of the unit without a building management system (BMS). Other features include full control display access, customizable data trending, and service contact information.



Heat-Cool Only Controls

The Heat-Cool Only Control offering is designed to allow third-party control of a packaged direct expansion (DX), heat pump, or indirect gas heat on models RV, RVE, and RVC, while maintaining the safeties of the refrigeration system and heating devices.



Microprocessor

Models RV, RVE, and RVC include a microprocessor controller that is factory programmed, wired and tested prior to shipment. The controller can operate stand-alone or integrate with a building management system (BMS) using BACnet® MS/TP or IP, or Modbus® RTU or IP protocols. This controller operates the unit in a safe and energy-efficient manner while controlling temperature and humidity. Control features include:



- LCD display with built-in keypad for easy set point adjustment
- Integral 7-day time clock
- Night setback option
- Auto changeover based on outdoor air conditions
- Heating and cooling temperature lockouts
- Building freeze protection
- Room temperature and humidity control
- Override controls for ease of start-up

Selection Software

Greenheck's free online eCAPS® Engineering Application Suite can simplify and optimize your DOAS selections. Just CLICK on the Outdoor Air product category. ENTER your project requirements. REVIEW your selections for size, weight and electrical load specifications. Then create a SCHEDULE. eCAPS also helps you locate and contact your nearest Greenheck rep. It's easy to use and always up-to-date.

