

Heat-Cool Only Control

Available on models RV, RVE, & RVC

Your terminal strip option for third-party control of the outdoor air unit with modulation and safeties of critical heating and cooling components from the manufacturer.



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. To achieve this, the Heat-Cool Only controller is factory installed and factory commissioned. This controller is responsible for the operation of the refrigeration and heating components installed in the unit based on setpoints and enable signals from the third-party controller. The safety of the refrigeration system is assured by monitoring pressures and temperatures contained within the refrigeration circuit(s).

The third-party controller has the ability to directly control the following through hard-wire signals:

- Supply/exhaust blower
- Energy recovery wheel
- Cooling, dehumidification, and heating enable
- Cold coil temperature setpoint
- Supply discharge temperature setpoint
- Damper position
- Unit on/off

Third-Party Control Options with Heat-Cool Only

Listed below are the options available for a third-party to control and monitor through either digital or analog signals. The signals would need to be field wired from the third-party controller to the terminal strip provided in the RV/RVE/RVC unit.

Description/Device	Terminal Type	Third Party IO Type
Supply Fan Speed Input	0.0-10.0 VDC	Analog Command
Exhaust Fan Speed Input	0.0-10.0 VDC	Analog Command
Energy Recovery Capacity Input	0.0-10.0 VDC	Analog Command
Cooling Coil Temperature Setpoint Input	2.0-10.0 VDC	Analog Command
Supply Air Temperature Setpoint Input	2.0-10.0 VDC	Analog Command
OA/RA Modulating Damper Signal	2.0-10.0 VDC	Analog Command
Damper Actuator Power	24 VAC	Digital Command
Supply Fan Start	24 VAC	Digital Command
Exhaust Fan Start	24 VAC	Digital Command
Energy Recovery Wheel Start	24 VAC	Digital Command
Pre-Heater Enable	24 VAC	Digital Command
Remote Start Input	24 VAC	Digital Command
Shutdown Input	24 VAC	Digital Command
Cooling(0)/Dehumidification(1) Control Mode	24 VAC	Digital Command
Cooling(0)/Heating(1) Control Mode	24 VAC	Digital Command
Global Alarm Output (Heat/Cool Alarms Only)	Contact	Digital Status
OA Damper End Switch (100% OA Units)	Contact	Digital Status
Condensate Overflow Switch	Contact	Digital Status
Energy Recovery Status	Contact	Digital Status
Filter Pressure Switch	Contact	Digital Status
Supply Airflow Measuring Station	0.0-10.0 VDC	Analog Feedback
Exhaust Airflow Measuring Station	0.0-10.0 VDC	Analog Feedback
Outdoor Airflow Measuring Station	0.0-10.0 VDC	Analog Feedback

RV, RVE & RVC Product Offering

Greenheck pre-engineered rooftop ventilator units are factory-tested and can be specified with a variety of options. Greenheck's comprehensive line of DOAS units, including models from 500 to 18,000 cfm and 3 to 70 tons of packaged cooling, can meet a wide range of heating, cooling, dehumidification, and ventilation requirements.

