Carrier’s Unit Vent Open controller is an integrated component of a Carrier unit ventilator. The Unit Vent Open controller continuously monitors and regulates unit ventilator operation with reliability and precision. This advanced controller features a sophisticated, factory-engineered control program that provides optimum performance and energy efficiency. For added flexibility, the Unit Vent Open controller is capable of stand-alone operation, or it can be integrated with any Building Automation System utilizing the BACnet protocol.

**Application Features**

- Controls modulating hot water/steam valves or up to 3 stages of electric heat to maintain space temperature setpoint
- Controls modulating chilled water valves or a single stage of DX cooling to maintain space temperature setpoint
- Supports 2-pipe changeover or 4-pipe system combinations
- Controls up to 3 fan speeds
- Built-in advanced control routines for zone level demand control ventilation (ASHRAE® 62)
- Optimal start and PID control for maximum occupant comfort
- Automatic fan speed control for matching fan speed to actual cooling or heating requirements, thus allowing the fan to run at the lowest capable setting to maintain room setpoint

**System Benefits**

- Fully plug-and-play with the Carrier i-Vu Building Automation System
- Supports demand limiting for energy savings
- Compatible with i-Vu Tenant Billing for tracking tenants’ after-hours energy usage

**Hardware Features**

- Compatible with 40UV (vertical) and 40UH (horizontal) unit ventilators
- Integrates easily into any BAS using the BACnet MS/TP or ARCNET protocol
- On-board hardware clock, remote occupancy input, and support for Carrier communicating and thermistor sensors provide stand-alone operation
- Thermostat linkage allows up to 8 unit ventilators to operate from 1 sensor
- Easy startup and commissioning using Carrier’s i-Vu user interfaces

The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.
### BACnet Support
Advanced Application Controller (B-AAC), as defined in BACnet 135-2001 Annex L

### Communication Ports
- **Network port:** EIA-485 port for BACnet MS/TP communications (baud rate is DIP switch selectable) or ARCNET 156 kbps;
- **Local Access port:** For system start-up and troubleshooting (115.2 kbps);
- **Rnet port:** For connecting Carrier communicating room sensors and Carrier’s touchscreen user interface

### Inputs
- 2 binary inputs: Remote Occupancy Contact/Fan Status, and Low Limit Thermostat.
- 4 analog inputs: RAT (10k thermistor), SAT (10k thermistor), OAT (10k thermistor), and Changeover Switch (dry contact)/Changeover Sensor (10k thermistor). AI's have 10 bit A/D resolution.

### Outputs
- 5 binary outputs: High Speed Fan, Medium Speed Fan (or Stage 3 Electric Heat), Low Speed Fan (or Stage 2 Electric Heat), 2-Pipe Valve/Heating Valve/Electric Heat Stage 1, and Cooling Valve/Electric Heat Stage 1 with 2-Pipe Electric Heat. Relay contacts rated at 1 A max. @ 24 VAC/VDC, configured normally open.
- 3 analog outputs: Mixed Air Damper, Two-Pipe/Heating Valve/F&B Damper, and Cooling Valve. AO's rated at 0-10VDC, 5mA max, with 8 bit D/A resolution using filtered PWM.

### Protection
Incoming power and network connections are protected by non-replaceable internal solidstate polyswitches that reset themselves when the condition that causes a fault returns to normal. The power, network, input, and output connections are also protected.

### Real Time Clock
Battery-backed real time clock keeps track of time in event of power failure against voltage transient and surge events.

### Battery
10-year Lithium CR2032 battery provides a minimum of 10,000 hours of trend data & time retention during power outages.

### Status Indicators
LED status indicators for communications, run status, error, power, and all digital outputs

### Controller Addressing
Rotary DIP switches set BACnet MS/TP or ARCNET MAC address of controller

### Listed by
UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE EN50082-1997

### Environmental Operating Range
- **Operating:** 0 to 140°F (-18 to 54°C), 10-90% relative humidity, non-condensing
- **Storage:** -24 to 140°F (-30 to 60°C), 10-90% relative humidity, non-condensing

### Power Requirements
24VAC ± 10%, 50-60Hz
18 VA power consumption
26VDC (25V min, 30V max)
Single Class 2 source only, 100 VA or less

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