

High Voltage FCU Controllers



Features

- Simple 3-wire connection between CN-VTR and CN-VC
- Line switching 90 to 277Vac
- Configurable sequences of operation
- Configurable fan functions button

Specification

Power requirements	90 to 277Vac $\pm 5\%$ (switch pack supply)
Sensor	Local 10K NTC thermistor
Resolution	$\pm 0.1^{\circ}\text{C}$
Control accuracy	$\pm 0.5^{\circ}\text{C}$ @ 21°C typical calibrated
Humidity sensor	Bulk polymer type sensor
Humidity accuracy	20% to 80% accuracy = 5%
Setpoint cooling	12 to 37.5°C
Setpoint heating	4.5 to 32°C
Display range	-40 to $+50^{\circ}\text{C}$
Proportional band	1.8°C
Setpoint De-hum	30 to 95% RH
Binary inputs:	Dry contact across terminal BI1, BI2 & UI3 to Scom
Conformity	CE EMC Directive 89/336/EEC
Operating conditions:	
Temp	0 to 50°C
RH	0% to 95% RH non-condensing
Dimensions:	
CN-VTR	125 x 86 x 29mm
CN-VC	100 x 70 x 32mm
Country of origin	Canada

Product Codes

Commercial Controllers

CN-VTR7300

FCU Controller, on/off output

CN-VTR7350

FCU Controller, on/off output with humidity

Hotel Controllers

CN-VTR7305

FCU Controller, on/off output

CN-VTR7355

FCU Controller, on/off output with humidity

Suffixes (add to part code):

B

BACnet MS-TP interface

E

Echelon TP/FT-10 interface

Communications Interfaces (mains voltage)

CN-VC3504

3-Speed fan, 4 inputs with heating/cooling outputs

CN-VC3300

Slave fan control only

Note: A CN-V device must be selected at the same time of ordering a CN-VTR unit.

Technical Overview

This series of control products has been specifically designed for the control of mains-voltage single and multi-speed fan coils in networked (optional) and non networked environments. The simplicity of these devices facilitates the installation and integration process often associated with other application specific controllers by reducing installation labour, programming and commissioning time.

The CN-VTR wall device contains pre-programmed, yet configurable fan coil control sequences which may be easily manipulated via the on-board configuration menu in order to satisfy most single and multi-speed fan coil applications. This wall device may be factory fitted with a BACnet MS/TP or Lontalk communication module which permits integration into most centralised BMS systems.

The CN-VC series of mains-voltage (90-277Vac) interface devices communicate with the VTR wall device via a 3-wire local field bus. This facilitates the process of retrofitting existing non-networked equipment by utilising existing structural cabling and simplifies the installation during new project delivery through simplifying structural cabling layouts.

Note:

Full operating instructions are supplied with each unit.

Typical Application

