



50V64-743 DIRECT REPLACEMENT INTEGRATED FURNACE CONTROL KIT

Replaces 80V, Variable Speed Trane Models CNT03777, CNT04678, CNT04985, CNT05160, D342062P01, D342263P01, D342263P02 and D342263P03, 50V64-495, 50V64-507, 50V64-743

FEATURES

- 80 VAC igniter output.
- Variable speed circulator output, variable speed inducer output.
- Two stage gas valve output.
- System diagnostic LED with fault recall.
- Furnace status and fault LEDs: Green and Red
- Heat fan off delay (dipswitch selectable), fan on delay for cooling.
- Auto second stage delay (dipswitch selectable).
- 120 VAC humidifier output/120 VAC electronic air cleaner output.

SPECIFICATIONS

Electrical Ratings [@ 77°F (25°C)]:

Input Voltage. 24 VAC, 60 Hz

Max. Input Current @ 25 VAC 525mA + MV

Relay Load Ratings:

Gas Valve Relay 1.5 amp @ 25 VAC, 60 Hz, 0.6 pf

Ignitor 2.0 amp @ 80 VAC, 60 Hz – resistive

Humidifier Relay 1.0 amp @ 120 VAC, 60 Hz

Electronic Air Cleaner Relay. 1.0 amp max. @ 120 VAC, 60 Hz

Flame Current Requirements:

Minimum current to insure flame detection 1 µA DC*

Maximum current for non-detection . . 0.1 µA DC*

Maximum allowable leakage resistance 100 M ohms

*Measured with a DC microammeter in the flame probe lead

Operating Temperature Range -40° to 175°F (-40 to 80°C)

Humidity Range 5% to 95% relative humidity (non-condensing)

Timing Specs: (@ 60 Hz**)

Flame Establishing Time 0.8 sec

Flame Failure Response Time 2.0 sec.

Gases Approved Natural, manufactured, mixed, liquid petroleum, and LP gas air mixtures are all approved for use

TECHNICAL HELP

Model Number	Pre-Purge	Ignitor Warm-Up	Retries	Heat Delay to Fan ON	Heat Delay to Fan OFF	Cool Delay to Fan ON	Cool Delay to Fan OFF	Automatic Reset Time
50V64-743	0s	5s	2 times	45s	60/100/140/180s	2s	N/A	60 minutes

CROSS REFERENCE

50V64-743 Replaces:

White-Rodgers	Trane
50V64-495	CNT03777
50V64-507	CNT04678
50V64-743	CNT04985
	CNT05160
	D342062P01
	D342263P02
	D342263P03
	D342263P01