



50T35-743

**50T35-743 GOODMAN SILICON CARBIDE
INTEGRATED HSI FURNACE CONTROL**

Controls Gas Valve, Ignitor, Two-Speed Blower Motor, Inducer, Humidifier (Both 120v & 24v Input), and Air Cleaner. Replaces OEM Goodman, UTEC and TI Models

FEATURES

- Includes flash code diagnostics.
- Twinning.
- Includes mounting hole template.
- Fused to protect low voltage system transformers.
- Adjustable blower relay.
- 90+ furnace option.

SPECIFICATIONS

Operating Temperature	-40 to 176°F
Humidity Range	95% RH (non-condensing)
Mounting	Plastic standoffs
Electrical Ratings @ 77°F (25°C)	
Input Voltage	20-30 VAC RMS 50 / 60 Hz
Maximum Input Current @ 30 VAC	0.35 amp
Relay Load Ratings	
Valve Relay	1.5 amp @ 30 VAC 50 / 60 Hz 0.6 pf
Ignitor Relay	5.0 amp @ 120 VAC 50 / 60 Hz
Inducer Relay	4.0 FLA-8.0 LRA @ 120 VAC
Circulator Relay	14.5 FLA-25.0 LRA @ 120 VAC
Flame Current Requirements	
Minimum current to insure flame detection	75 uA DC
Maximum current for non-detection	0.10 uA DC
Maximum allowable leakage resistance	100 M ohms
Timing Spec @ 60 Hz	
Flame establishing time	n/a
Flame failure response time	2.0 seconds maximum

NOTE: At 50 Hz, all timing specifications should be increased by 20%.

Model Number	Pre-Purge Time	Heat Delay On	Heat Delay Off Sec.	Cool Delay On Sec.	Cool Delay Off Sec.	Post Purge
50T35-743	15 seconds	30	90 / 120 / 150	5	60	25 sec (29 w/ 90+)

CROSS REFERENCE

50T35-743 Replaces:

Goodman	White-Rodgers
B18099-06	50T35-730
B18099-08	50T35-730-1
B18099-10	
B18099-13	
B18099-13S	
CNT04664	

HEATING