



50A55-743

**50A55-743 SILICON CARBIDE SINGLE STAGE
INTEGRATED FURNACE CONTROL**

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (Both 120V & 24V Input), and Air Cleaner. Replaces OEM Goodman and White-Rodgers Models.

FEATURES

- Includes flash code diagnostics.
- Twinning connection.
- Fused to protect low voltage system transformers.

SPECIFICATIONS

Operating Temperature.....	-40 to 176°F
Humidity Range	5% to 93% RH (non-condensing)
Mounting.....	Snap in standoffs
Electrical Ratings @ 77°F (25°C)	
Input Voltage.....	25 VAC 50 / 60 Hz
Maximum Input Current @ 30 VAC	0.45 amp
Relay Load Ratings	
Valve Relay.....	1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf
Ignitor Relay	6.0 amp @ 120 VAC 50 / 60 Hz
Inducer Relay	2.2 FLA-3.5 LRA @ 120 VAC
Circulator Relay	14.5 FLA-25.0 LRA @ 120 VAC
Flame Current Requirements	
Minimum current to insure flame detection. . . .	1 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	0.8 sec
Flame failure response time	2.0 seconds

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

Model Number	Prepurge Time	Heat Delay On	Heat Delay Off Sec.	Cool Delay On Sec.	Cool Delay Off Sec.	Post Purge
50A55-743	15 seconds	30	90 / 120 / 150 / 180	5	45	15 sec

CROSS REFERENCE

50A55-743 Replaces:

0130F00005	PCBBF110
0130F00005S	PCBBF110S
50A55-289	PCBBF112
50T55-289	PCBBF112S
B1809926	PCBBF123
B1809926S	PCBBF123S

NOTE: Can also use Universal Kit 50M56U-843

HEATING