

# White-Rodgers 50A55-843

# Universal

## Universal Replacement Integrated Module for Silicon Carbide Ignition

- Replaces Most White-Rodgers and OEM Integrated Ignition Modules for Silicon Carbide Applications
- Extensive Model Cross-Reference Provided
- Diagnostic LED
- Additional Jumpers to Extend the Length of the Connections

## 50A55-843

Universal Integrated Module  
for Silicon Carbide Ignition  
Replaces over 100 OEM and  
Aftermarket Models



## Simplify Your Inventory.

Go with the Leader and Stock One Model That Replaces Them All.

The 50A55-843 Universal Silicon Carbide Integrated Ignition module employs a microprocessor which continually monitors, analyzes and controls the proper operation of the gas burner, inducer and fan. This one module will replace most of the 50A5X-XXX integrated ignition carbide modules that have been

manufactured by White-Rodgers for most OEM applications. The Universal Module includes an extensive cross-reference, additional jumper wires, additional wiring harness and a jumper for Trane applications. The module also has terminals for powering a humidifier and electronic air cleaner.

White  
Rodgers™

  
**EMERSON™**  
Climate Technologies

- Replaces Most White-Rodgers and OEM Integrated Ignition Modules for Silicon Carbide Applications
- Extensive Model Cross-Reference Provided
- Diagnostic LED
- Additional Jumpers to Extend the Length of the Connections

### Application

Gas-Fired Forced-Air Furnaces with Integrated Furnace Control Module with a Silicon Carbide Ignitor

### Specifications

Electrical Rating at 77°F (25°C):  
Input Voltage 25 VAC, 50/60 Hz  
Max. Input Current (@ 25 VAC) 0.45 amp

Relay Load Ratings:  
Valve Relay 1.5 A @ 25 VAC, 50/60 Hz, 0.6f  
Ignitor Relay 6.0 A @ 120 VAC, 50/60 Hz (resistive)  
Inducer Relay 2.2 FLA-3.5 FLA @ 120 VAC  
Circulator Relay 14.5 FLA-25.0 FLA @ 120 VAC

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

Humidity Range:  
5% to 93%

Model Number	Pre-Purge	Trial for Ignition	Ignition Activation Period	Valve Sequence	Inter-Purge	Post-Purge	Lockout	Heat Delay to Fan On	Heat Delay to Fan Off
<b>50A55-843</b>	30	4	1	12	60	15	300	30, 45	60, 90, 120, 180
Cool Delay to Fan On	Cool Delay to Fan Off	Air Cleaner Tap	Humidifier Tap	Initial Warm-up	Retries	Twin			
5	45, 90	Yes	Yes	17	2 Times	Yes			

### Model Cross-Reference

#### 50A55-843 Replaces These Integrated Silicon Carbide Ignition Modules

031-00662-000	30757	50A50-296	75671
031-00662-700	350486	50A50-298	75672
031-01250-000	50A50-110	50A50-405	78712
031-01250-700	50A50-111	50A50-406	8068142
031-01266-000	50A50-112	50A50-408	8068561
031-01266-700	50A50-113	50A50-438	8068563
031-01284-000	50A50-130	50A50-471	83388
084141	50A50-131	50A50-472	99958174
1010806	50A50-142	50A50-473	99958175
102077-02	50A50-143	50A50-474	D330927P01
102077-03	50A50-205	50A50-475	D330930P01
10207704	50A50-206	50A50-571	D330934P01
102077-04	50A50-207	50A55143	D340035P01
10207706	50A50-208	50A55-143	D340774P01
102077-09	50A50-209	50A55-241	D341122P01
10207710	50A50-210	50A55-245	D341235P02
10207714	50A50-215	50A55-250	D341235P03
12L4201	50A50-216	50A55-285	PCBBF117
1380686	50A50-229	50A55-286	X13120666010
1380698	50A50-230	50A55-288	X13130436-01
1380699	50A50-240	50A55-438	X13130436-02
14028	50A50-241	50A55-474	X13130436-04
14029	50A50-245	50A55-571	X13130436010
14030	50A50-285	50A55-843	X13130436040
14031	50A50-286	52537074000	X13640678040
117284	50A50-288	52537077000	X13650597010
194300330001	50A50-295	56L8501	X445901

### See our other Universal Replacement Ignition Modules:

Non-Integrated Module for Silicon Carbide Ignitor  
50E47-843



Integrated Module for Nitride Ignitor  
50A65-843



Direct Spark Ignition Module  
50D50-842



Intermittent Spark Pilot Module  
50D50-843



Universal Single Stage HSI Integrated Furnace Control Kit  
50M56U-843



Universal Two-Stage HSI Integrated 3-Speed (PSC) Circulator Furnace Control Kit  
21M51U-843



Universal Two-Stage HSI Integrated Variable Speed (ECM) Circulator Furnace Control Kit  
21V51U-843

