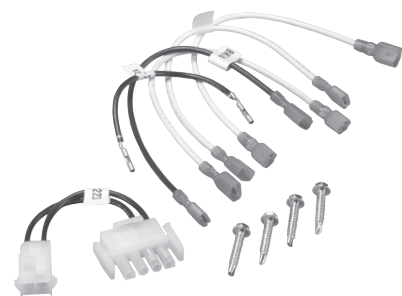
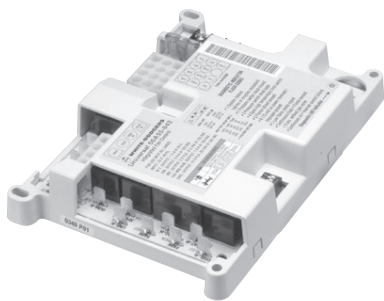


HEATING



## 50A55-843 UNIVERSAL SILICON CARBIDE IGNITION INTEGRATED HSI FURNACE CONTROL KIT

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier and Air Cleaner. Replaces Most Trane, York, ICP and Amana White-Rodgers Models

### FEATURES

- Includes flash code diagnostics.
- Replaces 50A50 and 50A55 controls (consult Integrated Silicon Carbide Module Reference Chart below).
- Fused to protect low voltage system transformers.
- Includes mounting hole template.
- Adjustable blower relay.

### SPECIFICATIONS

Input Voltage . . . . .	25 VAC 50 / 60 Hz
Maximum Input Current @ 25 VAC . . .	0.45 amp
Valve Relay . . . . .	1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf
Ignitor Relay . . . . .	6.0 amp @ 120 VAC 50 / 60 Hz (resistive)
Inducer Relay . . . . .	2.2 FLA – 3.5 LRA @ 120 VAC
Circulator Relay . . . . .	14.5 FLA – 25.0 LRA @ 120 VAC
Operating Temperature Range . . . . .	-40 to +175°F (-40 to +79°C)
Humidity Range . . . . .	5% to 93% relative humidity (non-condensing)



### TECHNICAL HELP

Wiring / configuration / troubleshooting see pages 183–184

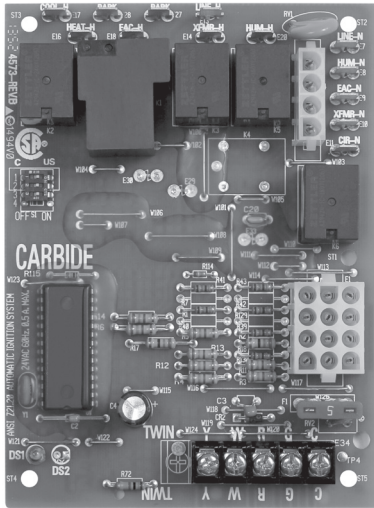
Model Number	Pre-Purge	Delay Heat		Delay Cool		Auto Reset
		ON	OFF	ON	OFF	
50A55-843	30 sec.	30 / 45	60 / 90 / 120 / 180	5	45 / 90	60 minutes

### CROSS REFERENCE

#### 50A55-843 Replaces:

031-00662-000	117284	50A50-131	50A50-405	50A55-843	D340035P01
031-00662-700	12L4201	50A50-142	50A50-406	52537074000	D340774P01
03101250000	1380686	50A50-143	50A50-408	52537077000	D341122P01
031-01250-000	1380698	50A50-205	50A50-438	56L8501	D341235P01
031-01250-700	1380699	50A50-206	50A50-471	75671	D341235P02
031-01266-000	14028	50A50-207	50A50-472	75672	D341235P03
031-01266-700	14029	50A50-208	50A50-473	78712	L38-798
031-01284-000	14030	50A50-209	50A50-474	8068142	L38-799
084141	14031	50A50-210	50A50-475	8068561	L38-800
1010806	194300330001	50A50-215	50A50-571	8068563	L38-801
102077-02	30757	50A50-216	50A55-143	83388	PCBBF117
102077-03	350486	50A50-229	50A55-241	99958174	X13120666010
10207704	3XA75	50A50-230	50A55-245	99958175	X13130436-01
102077-04	4DG53	50A50-240	50A55-250	CNT02789	X13130436010
10207706	4DG54	50A50-241	50A55-285	CNT02891	X13130436-02
102077-06	4DG55	50A50-245	50A55-286	CNT03799	X13130436-04
102077-09	4DG56	50A50-285	50A55-288	CNT1684	X13130436040
10207710	50A50-110	50A50-286	50A55-3797	CNT1686	X13640678040
102077-10	50A50-111	50A50-288	50A55-438	CNT1687	X13650597010
10207714	50A50-112	50A50-295	50A55-474	D330927P01	X4459
102077-14	50A50-113	50A50-296	50A55-476	D330930P01	X445901
10207719	50A50-130	50A50-298	50A55-571	D330934P01	

NOTE: Can also be replaced by 50M56U-843



**50A55-3797**

**50A55-3797 TRANE SINGLE STAGE 120V IGNITION INTEGRATED HSI FURNACE CONTROL**

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (120V), and Air Cleaner. Replaces OEM Trane and White-Rodgers Models

**FEATURES**

- Includes flash code diagnostics.
- 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 . . . . . maximum  
 0.8 sec  
 Flame failure response time . . . . . 2.0 seconds

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

Model Number	Pre-Purge Time	Heat Delay-To-Fan-On	Heat Delay-To-Fan-Off	Cool Delay-To-Fan-On	Cool Delay-To-Fan-Off	Post Purge
<b>NEW</b> 50A55-3797	0 sec	45	60 / 100 / 140 / 180	2	0 / 180	5 sec

**CROSS REFERENCE**

**50A55-3797 Replaces:**

Trane	White-Rodgers
CNT02789	50A55-474
CNT02891	50A55-476
CNT03799	50A55-571
D341122P01	
D341235P01	
D341235P03	

**NOTE:** Can also use Universal Kit 50M56U-843

HEATING