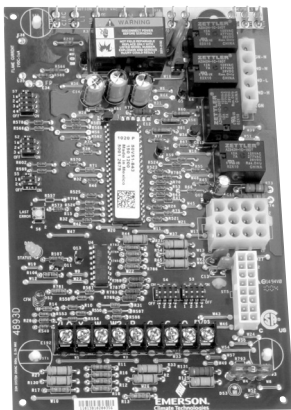


HEATING

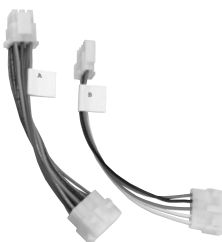


**21V51U-843 UNIVERSAL INTEGRATED
HSI FURNACE CONTROL KIT**

Replaces White-Rodgers 50V51-XXX's and 50V61-XXX's
Two-Stage HSI Systems with 80V or 120V Ignitors

FEATURES

- 16-pin variable speed circulator output for ECM (Electronically Commutated Motor), dipswitch selectable for OEM applications two-speed inducer output, two-stage gas valve output.
- Pushbutton fault history retrieval.
- Furnace status LED – tri-color (green, red and amber).
- 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 Rating:
 Input Voltage 24 VAC, 60 Hz (Class II transformer required)
 Nom. Input Current @ 24 VAC 595 mA + MV
 Relay Load Ratings:
 Gas Valve Relays 1.5 amps @ 24 VAC, 60 Hz
 Inducer Relays 2.2 FLA – 3.5 LRA @ 120 VAC
 Humidifier Load 1.0 amp max. @ 120 VAC
 Electronic Air Cleaner Load 1.0 amp max. @ 120 VAC
 Ignitor Relay 4.0 amps max. @ 132 VAC, 60 Hz
 Flame Current Requirements:
 Minimum current to insure flame detection 0.3 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 93% relative humidity (non-condensing)
 Flame Failure Response Time 2.0 sec. max. @ 60Hz

21V51U-843

- Includes:
- Module
 - HotRod Ignitor Kit
 - Wiring Harness



TECHNICAL HELP

Wiring Diagram/Operation See pages 181–182

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
21V51U-843	15	17	2	45	90/120/150/180	5	60	60 minutes

CROSS REFERENCE

21V51U-843 Replaces:

White-Rodgers	Goodman Mfg.	Trane	Lennox Industries
21V51U-843	20300002	KIT15815	18M9901
50V51-288	20300004	CNT04018	49M5901
50V51-289	20300006	CNT04352	
50V51-290	20300006S	CNT03078	
50V61-288	B1809925	D156245P01	
50V61-289	B1809927	D34142P01	
50V61-120	B1809927S	X13650840010	
50V61-143	PCB00106		
50V61-480	PCB00106S		
50V61-486	PCBB0106		
50V51-243	PCBB0106S		
50V51-507	PCBB0107S		
50V61-507			