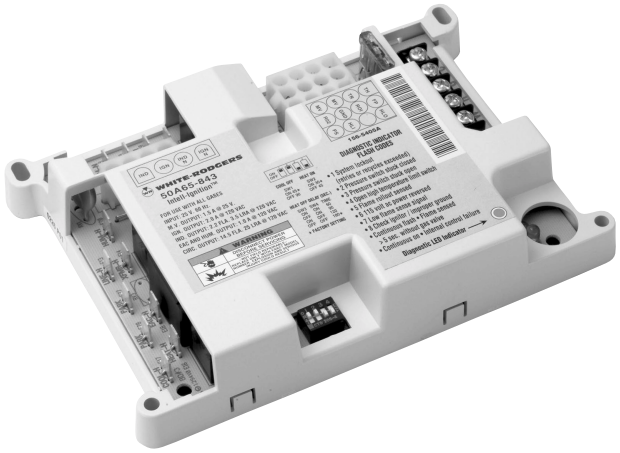
Carrying Less Works Best

Universal Nitride Integrated Ignition System

White-Rodgers 50A65-843



The 50A65-843 Universal Nitride Integrated Ignition module is an automatic ignition control that employs a microprocessor that continually monitors, analyzes, and controls the proper operation of the gas burner, inducer, and fan. The 50A65-843 is unique because it incorporates our patented adaptive algorithm routine that uses an 80V nitride ignitor to ensure the most effective ignitor temperature, increasing the life expectancy of the ignitor. This one module will replace all of the 50A65-XXX integrated ignition nitride modules that have been manufactured by White-Rodgers. The Universal Module has an extensive cross reference for replacement and includes additional jumper wires, additional wiring harness, a jumper for Trane applications and a 3/16" terminal for Lennox (only). The module also has terminals for powering a humidifier and an air cleaner.

FEATURES

- Extensive OEM Cross Reference
- Diagnostic LED
- Additional jumpers to extend the length of the connections

APPLICATIONS

Typical Applications: Gas fired forced air furnaces with integrated furnace control module and a nitride 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 . 2.0 A @ 120 VAC, 50/60 Hz (resistive)

Operating Temperature: .... -40 to 175°F (-48 to 80°C)

Humidity Range: ..... 5% to 93%

WHITE-RODGERS
Controlling Indoor Comfort Worldwide
Since 1937
St. Louis, Missouri
314-577-1300
www.white-rodgers.com

50A65-XXX to 50A56-843 Cross Reference/Timing Chart

W/R Part Number	50A65-120	50A65-143	50A65-288	50A65-474, -475	Universal 50A65-843
Customer Part Number	**Lennox 56L8401 10M9301 32M8801**	**Thermo Prod. 50A65-143**	**Amana 50A65-288**	**Trane D341213P01 D341396P01**	**W/R Standard**
Pre Purge	15	30	0	0	30
Trial for Ignition	4	4	4	4	4
Ignition Activation Period	4	4	4	4	4
Valve Sequence	20	12	12	12	12
Interpurge	15	60	60	60	60
Post Purge	5	5	15	5	15
Lockout	250	300	300	300	300
Heat Delay to Fan on	45	15, 30, 45, 60	30	45	30, 45
Heat Delay to Fan Off	0, 90, 120,180	60, 90, 120,180	60, 90, 120,180	60, 90, 120,180	60, 90, 120,180
Cool Delay to Fan On	0	0	5	2	5
Cool Delay to Fan Off	0	90	45	0,80	45,90
Air Cleaner	Yes	Yes	Yes	Yes	Yes
Humidifier	Yes	Yes	Yes	Yes	Yes
Initial Warm-up	20	20	20	20	20
Retries	4 times	2 times	2 times	2 times	2 times
Twin	N/A	N/A	N/A	Yes	N/A

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