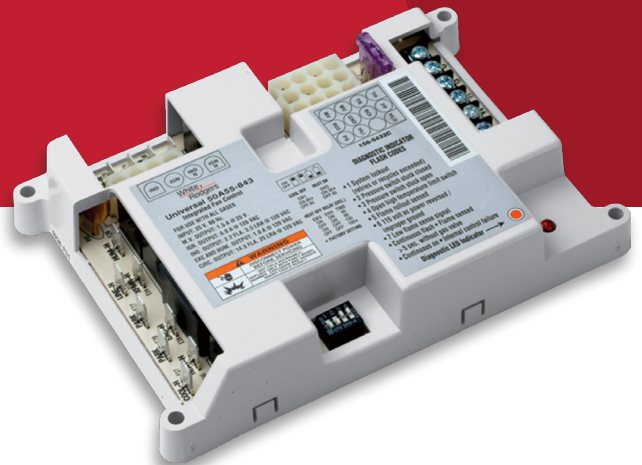


# Universal Single Stage HSI Integrated Furnace Controls for PSC Blower Motors

**50A55-843 (120V), 50A65-843 (80V)**



Replaces high volume White-Rodgers  
and OEM Integrated furnace controls  
without requiring ignitor replacement



**50A55-843 (120V HSI)**



## Price-Efficient Inventory

Two universal controls replace 160+ cross references for 80V or 120V

Match Ignitor voltage without replacing Ignitor



## Speed up Installation

Save time by having the right part

Multiple mounting options with mounting hole template included

Humidifier & Electronic air cleaner connections

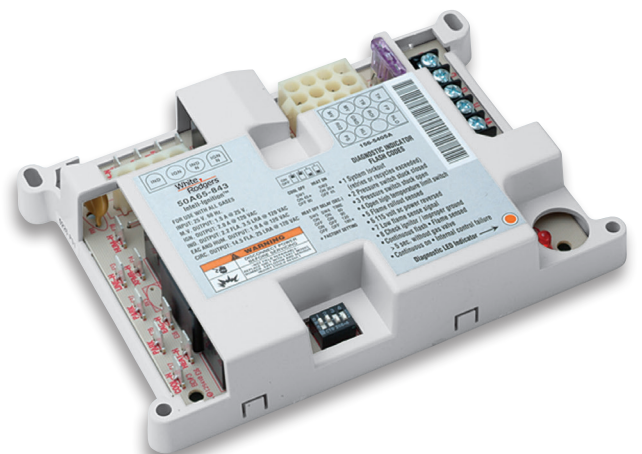
Extra motor/park terminals gives technician quick way to secure extra wires



## Configuration & Diagnostics

Cover label includes pin configuration, specs, dipswitch configuration, & diagnostic codes

Diagnostic LED for fast fault identification



**50A65-843 (80V HSI)**

# Universal Single Stage HSI Integrated Furnace Controls for PSC Blower Motors

## SPECIFICATIONS:

### Electrical Ratings: [@ 77°F (25°C)]

Input Voltage .....	25 VAC 50/60 Hz
Max. Input Current @ 25 VAC .....	0.45 Amp
Ignitor Current 50A55-843* .....	6.0 Amp @ 120V
Ignitor Current 50A65-843* .....	2.0 Amp @ 80V

\* Ignitor not included

### Flame Current Requirements:

Min. Current to ensure flame detection .....	1 µA DC**
Max. current for non-detection .....	0.1 µA DC**
Max. allowable leakage resistance .....	100 M Ohms

\*\*Measured with a DC microammeter in the flame probe lead

**Operating Temp Range:**..... -40° to 175°F (-40° to 80°C)

**Humidity Range:**..... 5% to 93% relative humidity

**Dimensions:**..... 6.90" L x 4.67" W x 1.25" D

**Agency Approvals:**..... CSA

**1 Year Limited Warranty**

## CROSS REFERENCES:

### 50A55-843

#### Whirlpool

8068142  
8068561  
8068563  
99958174  
999S817S

#### White-Rodgers

50A50-110  
50A50-111  
50A50-112  
50A50-113  
50A50-130  
50A50-131  
50A50-142  
50A50-143  
50A50-205  
50A50-206  
50A50-207  
50A50-208  
50A50-209  
50A50-210  
50A50-215  
50A50-216  
50A50-229  
50A50-230  
50A50-240

50A50-241  
50A50-245  
50A50-285  
50A50-286  
50A50-288  
50A50-295  
50A50-296  
50A50-298  
50A50-405  
50A50-406  
50A50-408  
50A50-438  
50A50-471  
50A50-472  
50A50-473  
50A50-474  
50A50-475  
50A50-571  
50A55-143  
50A55-241  
50A55-24S  
50A55-250  
50A55-285  
50A55-286  
50A55-288  
50A55-438  
50A55-843

#### York

3101250000  
031-00662-000  
031-00662-700  
031-01250-000  
031-01250-700  
031-01266-000  
031-01266-700  
031-01284-000  
52537074000  
52537077000

#### Dayton / WW Grainger

40G57  
**Goodman**  
10207717  
102077-17  
PCBBF118S

#### Lennox

10M93  
10M9301  
12L69  
12L6901

32M88  
32M8801  
56L84  
56L8401  
**Thermo  
Products**  
350836

#### Trane

CNT03076  
CNT03742  
CNT03798  
CNT05164

### 50A65-843

CNT05165  
D341213P01  
D341396P01  
D341396P03  
D341396P04  
D341396P05  
X13120667010  
50A65-474  
50A65-475  
50A65-476  
50A65-843  
50A65-5165  
**White-Rodgers**  
50A65-120  
50A65-121  
50A65-143  
50A65-288

## TIMING SPECIFICATIONS:

	50A55-843	50A65-843
Pre-Purge	30	
Initial Ignitor Warm-Up	17	20
Ignition Activation Period	1	
Trial For Ignition Period	4	
Retries	2 times	
Valve Sequence Period	12	
Interpurge	60	
Post-Purge	15	
Lockout Time	300	
Heat Delay-To-Fan-On*	30, 45	
Heat Delay-To-Fan-Off*	60/90/120/180	
Cool Delay-To-Fan-On	5	
Cool Delay-To-Fan-Off*	45, 90	
Auto Reset	60 minutes	
Humidifier	YES	
Electronic Air Cleaner	YES	
Flame Establishing Time (@ 60 Hz**)	0.8 max	
Flame Failure Response Time (@ 60 Hz**)	2.0 max	

\* These times will vary depending on option switch position. The control is factory-set at 30 seconds heat delay-to-fan-on, 180 seconds heat delay-to-fan-off and 45 seconds cool delay-to-fan-off. See OPERATION section for further information.

\*\*At 50 Hz, all timing specifications should be increased by 20%

**Note:** Timing in seconds unless otherwise noted.

#### WR Mobile

- Entire Cross Reference
- Installation Resources

