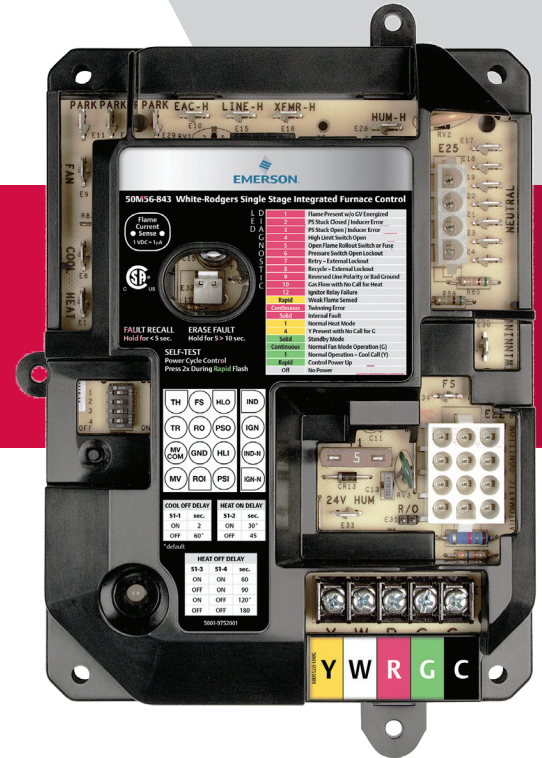


Universal Single Stage Furnace Control for PSC Blower Motors

50M56U-843

U
Universal

Replaces over 400 single stage HSI controls with 80V or 120V ignitors



Universal Replacement Kit

Ignition control 50M56-843

Quick-connect wiring harnesses

HotRod™ Universal Ignitor Kit 21D64-2

Installation instructions and OEM cross reference



Easy Installation

Mounting design fits all OEM models

Simple Rollout jumper

75% of all applications install without adapter harnesses

24V or 120V humidifier



Advanced Diagnostics

Simple pushbutton fault recall

Tri-Color LED & status codes

Flame current test pins

Fault code label on control



Included

HotRod™ Universal
Ignitor Kit 21D64-2

For ECMx blower motors
use 50X57-843

WHITE-RODGERS™

EMERSON™

Universal Single Stage Furnace Control for PSC Blower Motors

50M56U-843 Replaces over 400 single stage HSI controls with 80V or 120V ignitors

COMPETITIVE COMPARISON

Choose White-Rodgers for maximum cross reference and ease of installation

FEATURES	WHITE-RODGERS	BRAND X
For single stage & psc blower	✓	✓
Cross references	400	200
Ignitor voltage serviced	80V & 120V	120V
Blower delay dipswitches	4	4
Tri-color LED displays	✓	✓
Rollout accessory	Easy jumper	Wire
Flame test pins/pads	✓	✗
Full cover	✓	Tray
Fault code label	✓	✗
Fault recall & clearing	Simple pushbutton	Jumper R & D terminals
Electronic air cleaner output	✓	✓
Humidifier output	24V or 120V	120V
Fuse, twinning, test mode	✓	✓

SPECIFICATIONS:

Electrical Rating [@ 77°F (25°C)]

Input Voltage: 25 VAC 50/60 Hz

Max Input Current: 0.45 amp @ 25 VAC

Flame Current Requirements

Minimum current to insure flame detection: .25 µA DC*

Maximum current for non-detection: 0.1 µA DC*

Maximum allowable leakage resistance: 100 M ohms

* Measuring with a DC voltmeter (1 VDC = 1µA)

Operating Temperature Range

-40° to 176° F (-40° to 80° C)

Timing Specifications

(All times are in seconds unless noted otherwise)

Pre-purge	Ignitor warm-up (adaptive)	Retries	Post-purge	Lockout time	Heat ON delay	Heat OFF delay	Cool ON delay	Cool OFF delay	Auto reset	Flame establishment	Flame failure response
15	17-19	4 times	5	5 mins	30*/45	60/90/120*/180	2	2/60*	60 mins	0.8	2.0

* Denotes factory default

Humidity Range

5 - 95% relative humidity (non-condensing)

Gases Approved

Natural, Manufactured, Mixed, Liquefied Petroleum, and LP Gas-Air Mixtures are all approved for use

Dimensions

5.625" W x 8.25" L x 1.50" D (with tabs)

5.25" W x 7.0" L x 1.50" D (tabs removed)

Agency Approvals

CSA - USA/Canada

1 Year Limited Warranty

THE WHITE-RODGERS MOBILE APP:

- Cross referencing
- Product information
- Product selection



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