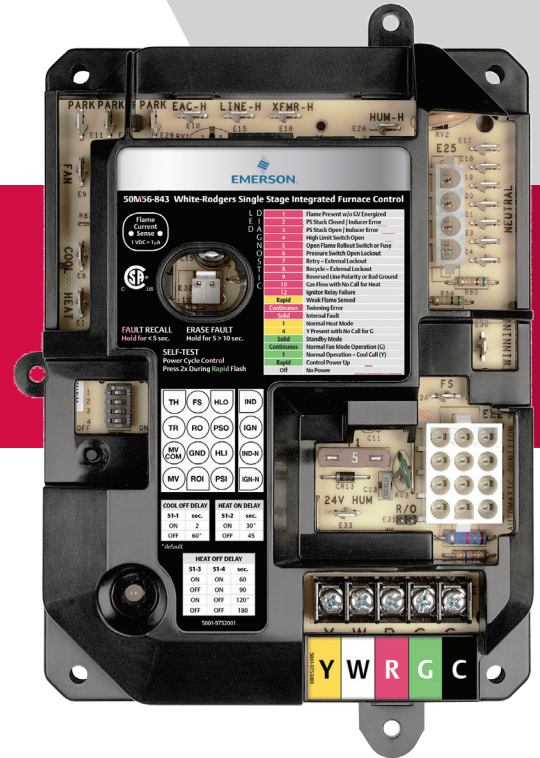


Universal Single Stage Furnace Control for PSC Blower Motors

50M56U-843

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

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

R-4819 (9/21)

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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



Universal Single Stage Furnace Control for ECMx Blower Motors

50X57-843



The industry's only universal control for ECMx blower motors



Universal Replacement

Services Carrier, Lennox, Trane and York models

Reduce inventory and save time by eliminating extra trips



Easy Installation

Mounting design fits all OEM models

Simple Rollout jumper

Factory wiring plugs directly into the control

24V or 120V humidifier



Advanced Diagnostics

Simple pushbutton fault recall

Tri-Color LED & status codes

Flame current test pins

Fault code label on control



DEALER DESIGN AWARDS

theNEWS | SILVER



Universal Single Stage Furnace Control for ECMx Blower Motors

50X57-843 The industry's only universal control for ECMx blower motors

SPECIFICATIONS:

Electrical Rating [@ 77°F (25°C)]

Input Voltage: 25 VAC 50/60 Hz

Max Input Current: 0.8 amp @ 25 VAC

Flame Current Requirements

Minimum current to insure flame detection: .31 μ a DC*

Maximum current for non-detection: 0.1 μ a DC*

Maximum allowable leakage resistance: 100 M ohms

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

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, starts at 17)	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	5-21	3 times	15	250 (seconds)	25	60/90/120*/180	3	3/90*	60 mins	0.8	2.5

* 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 7.25" L x 1.50" D (tabs removed)

Agency Approvals

UL

1 Year Limited Warranty

50X57-843 CROSS REFERENCE REPLACEMENT:

Carrier / ICP Brands

1183386
1184412
CEPL130934-01
CEPL130934-02
CEPL131011-01
CEPL131011-02
HK42FZ027
HK42FZ033
HK42FZ039
HK42FZ047

Grainger

115Z36
115Z39
116J02

Johnstone

L45-086

Lennox Brands

103217-01
103217-02

607436-01
607436-02
79W84
85W79

Trane / American Standard Brands

CNT04711
CNT06664
CNT07737
CNT07738

D342359P01
D342359P02
D342359P03
D342359P04

White-Rodgers

50A67-476-01
50A67-476-02
50A67-507-01
50A67-507-02
50X57-843

York / JCI Brands

542760
S1 03102951001

80V application which requires 120V ignitor upgrade*

*Suggested upgrade is our HotRod™ Ignitor

The White-Rodgers Mobile App:

- Cross referencing
- Product information
- Product selection



R-4822-2 (11/19)

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