

Single Stage HSI Integrated **Furnace Control** for PSC Blower Motors

50M56U-801 | LENNOX

Replace most 120V Lennox HSI single stage furnace controls using a PSC blower motor.



Reduced Truck Stock

Replace 5 OEM boards and 28 cross references



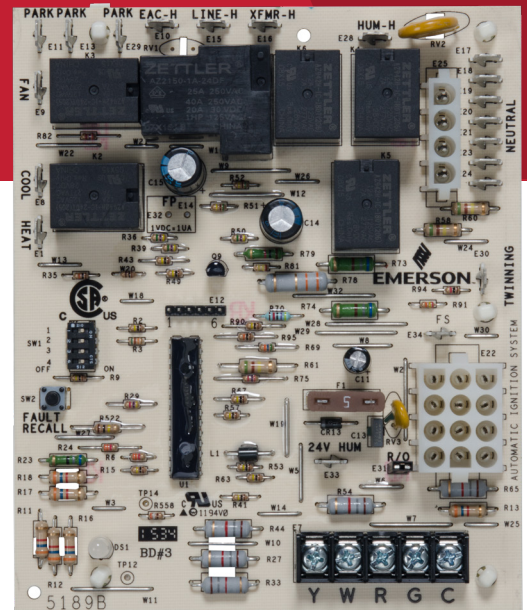
Advanced Diagnostics

Simple push-button tri-color LED
Flame current test pads for easy on-board checkout



Versatile Installation

Pin to socket adapter harnesses
Two options for flame sense connection
Supports 24V or 120V humidifier operation



Lennox Single Stage HSI Integrated Furnace Control for PSC Blower Motors

SPECIFICATIONS:

Electrical Ratings: [@ 77°F (25°C)]

Input Voltage 25 VAC 60 Hz

Max. Input Current: 45A @ 25 VAC

Humidifier Load 1.0 amp @ 24 VAC or 120 VAC

Electronic Air Cleaner..... 1.0 amp @ 120 VAC

Flame Current Requirements:

Min. current to ensure flame detection..... 0.25 µA DC*

Max. current for non-detection..... 0.25 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 (non-condensing)

Dimensions: 5.9"W x 4.95"H x .797"D

Agency Approvals: CSA - USA / Canada, UL Recognized

CROSS REFERENCES:

Lennox, Armstrong,	103085-01	74W03
AirEase, Concord,	103085-02	75M1701*
Ducane, Aire-Flo	103085-03	78M1701*
	103098-01	78M4701*
100973-01*	1195-83-100A	80M2701
100973-02*	1195-100	81W03*
1012-83-9673A	12L4201	81W11
1012-967	17W70*	94W83
1012-968	50A55-120	R47582-001
1012-969*	56L8501	
1012-969A*	56W19	
1012-977A		

*Requires 120V Ignitor (21D64-2)

1 Year Limited Warranty

OEM COMPARISON: Replace multiple OEM controls with the 50M56U-801

	81W03	56W19	94W83	74W03	White-Rodgers 50M56U-801
Ignitor / Inducer Connections	Sockets	Pins	Pins	Sockets	2 harnesses cover all combinations
Main Harness Connections	Pins	Pins	Pins	Sockets	
Flame Sense	dedicated 3/16" spade	in main harness	in main harness	dedicated 3/16" spade	both options
Timings (sec)	Heat On	45	30	30	30/45
	Heat Off	60/90/120/180	60/90/120/180	60/90/120/180	60/90/120/180
	Cool On	0	1	2	2
	Cool Off	0	60	60	45
Fan Speeds	Heat	Heat	Heat	Heat	Heat
	Cool	Cool	Cool	Cool	Cool
	—	Fan	Fan	Fan	Fan
Stand-off Locations	✓	✓	✓	✓	✓
Ignitor Voltage	95V (Replace w/ HotRod)	120V	120V	120V	120V

Note: Also replaces 56L85.

THE WHITE-RODGERS MOBILE APP:

- Latest cross reference
- Installation instructions
- Spec sheets
- Product selection

