



50M56X-843

UNIVERSAL INTEGRATED FURNACE CONTROLS

Replaces over 700 OEM, White-Rodgers and competitive model numbers.

FEATURES

- Reduces inventory by providing maximum control replacement coverage
- Select models include a universal 120V nitride ignitor to allow replacement of 80V and 120V controls
- Diagnostic LED indicators streamline installation and system troubleshooting
- 120V air cleaner output and 120V humidifier output up to 1 Amp max
- Factory standard safety timings and adjustable fan delay options
- Replaceable automotive style fuse

SPECIFICATIONS

Low Voltage Circuit	24 VAC, 50/60 Hz
Line Voltage Circuit	120 VAC, 50/60 Hz
Circulator Relay	14.5 FLA - 25.0 LRA @ 120 VAC
Circulator Relay: PSC	14.5 FLA - 25.0 LRA @ 120 VAC
Circulator Relay: ECMx	12.0 mA @ 30 VAC
Operating Temperature Range	-40° to 175°F (-40° to 79°C)
Humidity Range	5% to 93% relative humidity (non-condensing)

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FAMILY BRANDS OF EQUIPMENT	STAGES	IGNITION TYPE	IGNITOR VOLTAGE	INDUCER MOTOR / BLOWER MOTOR	BLOWER MOTOR SPEED TAPS	THERMOSTAT INPUTS	INCLUDES IGNITOR OR ELECTRODE	TWINNING	INCLUDES WIRING ACCESSORIES	COMM SYSTEM	CONTROL MOUNTING	MODEL NUMBER	ITEM NUMBER
Carrier, Goodman, Lennox, Nordyne, Rheem, Trane, York	Single Stage	HSI	120 Vac*	PSC / PSC, ECMx	PSC - 2 or 3 speeds ECMx: 2, 3, 4, 5, & 9 speeds	R, C, W, G, Y1, Y/Y2, DHUM	√	√	—	—	Flush Mount	50M56X-843 ¹	50M56X-843
Carrier, Goodman, Lennox, Trane, York	Single Stage	HSI	120 VAC	PSC / PSC	Heat, Cool	R, C, W, Y G	—	√	√	—	Flush Mount	50A55-843	50A55-843S1
Goodman, Lennox, Trane	Single Stage	HSI	80 VAC only	PSC / PSC	Heat, Cool	R, C, W, Y G	—	—	—	—	Flush Mount	50A65-843	50A65-843S1
Goodman, Lennox, Trane, York	Two-Stage	HSI	120 VAC*	PSC / PSC	Lo Heat, Hi Heat, Cool	R, C, W1, W2, YLo, Y, G	√	√	—	—	Standoff	21M51U-843	21M51U-843
Goodman, Lennox, Trane, York	Two-Stage	HSI	120 VAC*	PSC / Var. Speed	16-pin Interface	R, B/C, W1, W2, YLo, Y, G, O, DHUM	√	—	√	—	Standoff	21V51U-843	21V51U-843

* On 80 VAC applications use supplied 21D64-2 Universal Ignitor.

** On 80 VAC applications purchase 21D64-2 Universal Ignitor.

¹ **NOTE:** Coming Fall 2022, replaces 50M56U-843 & 50X57-843, uses White-Rodgers Connect app for quick configuration and diagnostics.