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

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

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)

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

* 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