Universal Heat Pump Defrost Control

47D01U-843

Universal Replacement
Replaces over 400 part numbers
Selectable demand or timed defrost modes
O or B reversing valve
Configures to any system

Easy Installation & Set Up
One-button configuration to any OEM system
Integrated outdoor thermostat
Includes outdoor sensors
Test mode to verify installation and troubleshoot

Versatile Matrix Display
Access set up and diagnostic menus from any orientation by rotating the display

Compressor Protection
Brownout and short-cycle protection plus Hi/Low pressure inputs
**SPECIFICATIONS**

**ELECTRICAL RATING**
Control Voltage: 24 VAC 50/60 Hz
Line Voltage: 208/240 VAC 50/60 Hz
Input Ratings:
- Outdoor PSC Fan: 0.5 HP @ 240 VAC, 0.125@ 120 VAC
- Contactor Coil: 24 VAC
- Aux Heat (D/W/X2) @ 24 VAC
- Reversing Valve: 24 VAC

**OPERATING TEMPERATURE RANGE**
-40° to 150°F (-40° to -65°C)

**HUMIDITY RANGE**
0 - 95% relative humidity, non-condensing

**DIMENSIONS / MOUNTING**
5.75"W x 4.72"L x 1.75"H

**REPLACEMENT KIT CONTENTS**
Defrost control board, wiring harnesses, coil and ambient temp sensors, mounting accessories and labels.

**AUXILIARY HEAT LOCKOUT**
Above the selected temperature, auxiliary heat will only run during defrost operation. Selectable from 0° to 40°F or off*.

**COMPRESSOR LOCKOUT**
Below the selected temperature the compressor does not operate, except in defrost cycle. Selectable from -10° to 35°F or off*.

**REVERSING VALVE SHIFT DELAY**
Limit excessive noise in and out of a defrost cycle. Selectable 0, 12 or 30* second delay.

**SHORT CYCLE PROTECTION**
0, 3 or 5* minute selectable delay between cycles.

**BROWNOUT PROTECTION**
De-energizes compressor when control voltage drops below 15.5 VAC for more than 4 seconds and resumes operation at 17.5 VAC. Selectable On* or Off.

**RANDOM START DELAY**
Delays operation for 5-90 seconds after a power outage to protect the compressor and avoid brownouts. Selectable On* or Off.

**TIMING SPECIFICATIONS**
All timing is accurate to +/- 5% of nominal over the full temperature and voltage range at 60Hz. All timings are 20% longer when operated with 50Hz power supply. *Default Setting

**THE WHITE-RODGERS MOBILE APP:**
Answers at your fingertips, with your smartphone or tablet.

<table>
<thead>
<tr>
<th>Feature</th>
<th>White-Rodgers 47D01U-843</th>
<th>Brand “X” DB7110U</th>
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<tbody>
<tr>
<td>Board Cross References</td>
<td>430+</td>
<td>260</td>
</tr>
<tr>
<td>Readable Display</td>
<td>8x8 Matrix</td>
<td>4x7 Segmented LED</td>
</tr>
<tr>
<td>Multi-position Display can be rotated in settings</td>
<td>✓</td>
<td>X</td>
</tr>
<tr>
<td>Display Shows Status &amp; Fault Codes, has Fault recall</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Set-up / Fault Code Label for quick reference</td>
<td>✓</td>
<td>X</td>
</tr>
<tr>
<td>Select from OEM pre-sets to match factory</td>
<td>✓</td>
<td>X</td>
</tr>
<tr>
<td>Menu configurable for Demand or Timed Defrost</td>
<td>✓</td>
<td>✓ (Demand-enabled)</td>
</tr>
<tr>
<td>Menu configurable for Pressure Switch enable/disable</td>
<td>✓</td>
<td>X (non-supplied jumpers required)</td>
</tr>
<tr>
<td>Auxiliary Heat &amp; Compressor Lockout can be used in Demand &amp; Timed Defrost</td>
<td>✓</td>
<td>X (demand only)</td>
</tr>
<tr>
<td>Wiring flags supplied for wiring ID installation ease</td>
<td>✓</td>
<td>X</td>
</tr>
<tr>
<td>Reversing Valve delay for quieter Defrost</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Menu Config “O” or “B” Reversing Valve</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Air and coil sensors</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Strain-proof sensor connectors</td>
<td>✓</td>
<td>X</td>
</tr>
</tbody>
</table>