

# Universal Heat Pump Defrost Control

## 47D01U-843

Replace virtually all single stage defrost controls



### 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



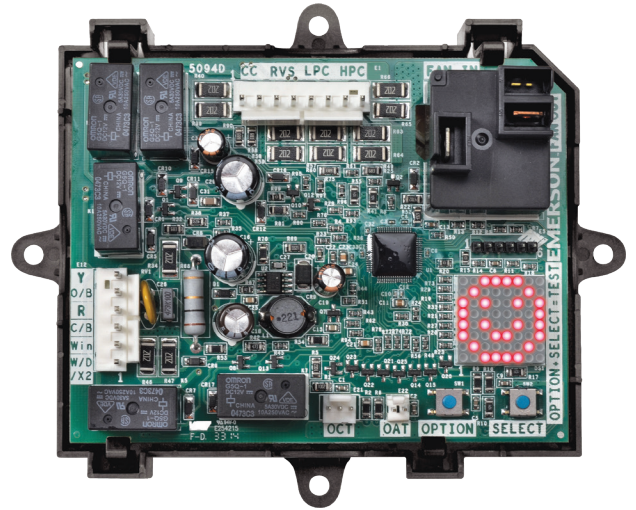
### Versatile Matrix Display

- 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



# Universal Heat Pump Defrost Control 47D01U-843

## 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.

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



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