

# Universal Heat Pump Defrost Control



**Replace Virtually All  
Single Stage Defrost Controls**

**47D01U-843**

## **Universal Replacement**

Selectable demand or timed defrost modes  
O or B reversing valve  
Configures to any system

## **Easy Installation & Set Up**

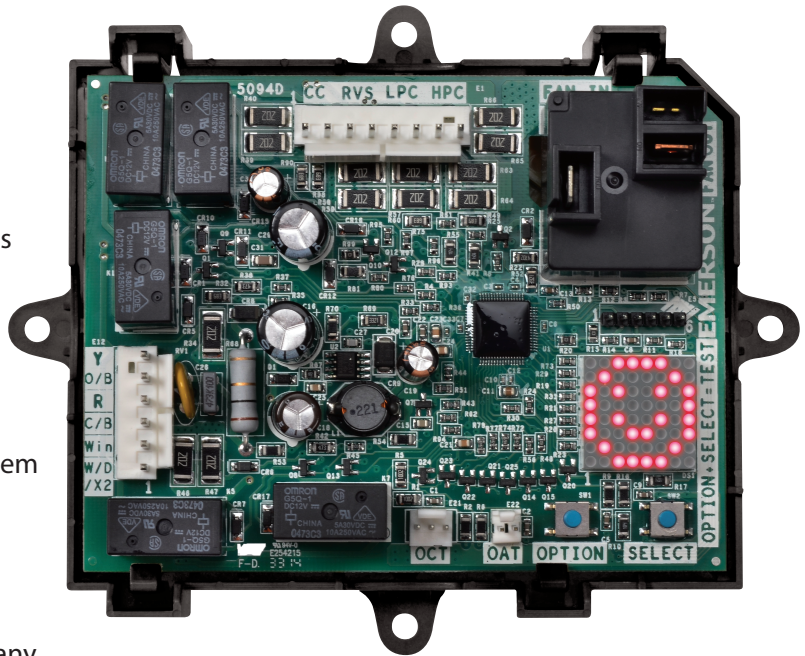
Universal mounting with rotating display  
One-button configuration to any OEM system  
Includes outdoor sensors  
Test button for system verification

## **Versatile Matrix Display**

Access set up and diagnostic menus from any orientation

## **Compressor Protection**

Brownout and short-cycle protection plus  
Hi/Low pressure inputs



**Replaces 200+ Controls!**

[EmersonDefrostControl.com](http://EmersonDefrostControl.com)

## **An Elegant Combination of Versatility & Simplicity** **Introducing the Industry's First Universal Heat Pump Defrost Control**

The latest in outdoor electronic innovations from White-Rodgers is a universal upgrade for single stage heat pump systems with a PSC fan motor. Select from pre-configured demand or timed defrost routines or configure to replicate virtually any set up. Also, upgrade your customers comfort with integrated compressor protection and outdoor sensor capabilities.

# Universal Heat Pump Defrost Control

## For Single Stage Applications

# 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 HP @ 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 45°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

Auto shut off when control voltage drops below 16 VAC for more than 4 seconds . Selectable On\* or Off.

#### Random Start Delay

Delays operation for a random delay after 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 60 Hz. All timings are 20% longer when operated with 50 Hz power supply.

\*=Default Setting

### Cross Reference: Replaces virtually all single stage defrost controls, including:

<b>Amana</b> C64301-1 C6431001	<b>Comfortmaker</b> 1029-2 34332100 34332101	ST74A1053 ST74C1002	1507N170027 29M0101 29M0201 30W87	<b>ICM</b> DFORB24A21300 DFORB-AB1004 DFORF DFOSP24A2	33C9501 34M6301 46K67 56M3701 68J2901 68J8401 78H6801 84W8801 86G1601 97M81 LB-101263A LB-101263B	<b>Rheem</b> 47-102684-01 47-102684-02 47-102684-03 47-102684-04 47-102684-07 47-102684-08 47-102684-83 47-102685-01 47-102685-02 47-102685-03 47-102685-04 47-102685-05 47-102685-06 47-102685-84 47-21517-11 47-21517-13 47-21517-14 47-21517-16 47-21517-17 47-21517-18 47-21517-22 47-21517-23 47-21517-24 47-21517-82 47-21517-88 47-21517-92 47-21776-01 47-21776-06 47-21776-86 DDL-013002-ORH DDL-013002-1RH DDL-013102-1RH DDL-017002-2RH	DDL-017102-1RH DDL-017702-1RH DDL-117702-3RH DDL-122131-2RH	<b>Robertshaw</b> DT2-1000 TD-10	<b>SnyderGeneral</b> 1395-329 CEBD430524-04B	<b>Tempstar/ICP</b> 1084-100 1084-83-1008 1087562	<b>Trane</b> 21C140501G18 21C140501G27 21C140501G36 21C140501G37 21C140501G38 21C140501G42 21C140501G44 21C140501G45 21C140501G53 21C140501G54 21C140501G55 21C140501G60 21C142827G01 CNT01106 CNT01108 CNT01129 CNT01152 CNT01431	CNT01510 CNT01642 CNT01923 CNT01924 CNT01926 CNT02514 CNT02515 CNT02516 CNT02920 CNT02935 CNT03715 CNT03716 CNT04362 CNT04363 CNT04364 CNT04366 CNT04368 CNT04695 CNT05001 CNT05008 CNT05009 CNT05010 CNT05482 CNT05875	<b>Weatherking</b> 840-4-5548	<b>White-Rodgers</b> 47D40-801 47D43-101 47D43-111 47D43-111 02 47D43-811 90-621	<b>York</b> 031-00872-001 031-00872-002 031-00872-003 031-00872-701 031-00872-702 031-00872-703 031-01222-000 031-01251-000 031-01268-000 031-01954-000 031-01975-000 031-09104-000 031-09170-000 331-01975-102 331-01975-102 331-09139-000 9218-3741 S1-03100872701 S1-03109170000 S1-33101954000 S1-33101975102		
<b>Arcoaire</b> 32312-00 3232140	<b>Evcon</b> 9218-374																
<b>Armstrong</b> 39840B001 44614-001 44614-002 46257-001 47181-001 R46257-001 R46614-002 R47181-001	<b>Fast</b> 1093410																
<b>Carrier</b> 150-83-6A 621-xxx CES0110063-00 CES0110063-01 CES0110063-02A CES0130024-00 CES0130024-01 CES0130076 HK25S2359A HK32EA001 HK32EA003 HK32EA007 HK32EA008 HK32FA003 HK32FA006	<b>Goettl</b> 305007	<b>Goodman</b> 1084-03-2022 1084-200D 20293901 B1226006 B1226008 LR40061 PCBDM101 PCBDM130 PCBDM133 PCBDM160	<b>Nordyne</b> 620880 621301A 621579B 621579C 624519A 624608 624626 624633 624644 624656 624700 917012 917178 917178A 920338														
<b>Coleman</b> 3030A374	<b>Heil/Tempstar</b> 1087952 1087953 1173636	<b>Heil Quaker</b> HQ1052757	<b>ICP</b> 1052757 1069364	<b>Intertherm</b> 6208800	<b>Lennox</b> 100269-01 100269-02 100269-04 100269-05 11K7101	<b>Ranco</b> DT2											



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