

# 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>Rheem</b> 47-102684-01 47-102684-02 47-102684-03	DDL-017102-1RH DDL-017702-1RH DDL-117702-3RH DDL-122131-2RH	CNT01510 CNT01642 CNT01923 CNT01924	<b>York</b> 031-00872-001 031-00872-002 031-00872-003
<b>Arcoaire</b> 32312-00 3232140	<b>Evcon</b> 9218-374	DFORB24A21300 DFORB-AB1004 DFORF DFOSP24A2	33C9501 34M6301 46K67 56M3701	47-102684-04 47-102684-07 47-102684-08 47-102684-83	<b>Robertshaw</b> DT2-1000 TD-10	CNT01926 CNT02514 CNT02515 CNT02516	031-00872-701 031-00872-702 031-00872-703 031-01222-000
<b>Armstrong</b> 39840B001 44614-001 44614-002 46257-001 47181-001 R46257-001 R46614-002 R47181-001	<b>Fast</b> 1093410	ICM300C ICM301C ICM302C ICM303C	68J2901 68J8401 78H6801 84W8801	47-102685-01 47-102685-02 47-102685-03 47-102685-04	<b>SnyderGeneral</b> 1395-329 CEBD430524-04B	CNT02920 CNT02935 CNT03715 CNT03716	031-01251-000 031-01268-000 031-01954-000 031-01975-000
<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	ICM304 ICM307 ICM316 ICM317 ICM318 ICM319 ICM320 ICM321 ICM322 ICM323 W1001-4	86G1601 97M81 LB-101263A LB-101263B	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	<b>Tempstar/ICP</b> 1084-100 1084-83-1008 1087562	CNT04362 CNT04363 CNT04364 CNT04366 CNT04368 CNT04695 CNT05001 CNT05008 CNT05009 CNT05010 CNT05482 CNT05875	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>Heil Quaker</b> HQ1052757	<b>Goodman</b> 1084-03-2022 1084-200D 20293901 B1226006 B1226008 LR40061 PCBDM101 PCBDM130 PCBDM133 PCBDM160	<b>ICP</b> 1052757 1069364	<b>Nordyne</b> 620880 621301A 621579B 621579C 624519A 624608 624626 624633 624644 624656 624700 917012 917178 917178A 920338	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	<b>Trane</b> 21C140501G18 21C140501G27 21C140501G36 21C140501G37 21C140501G38 21C140501G42 21C140501G44 21C140501G45 21C140501G53 21C140501G54 21C140501G55 21C140501G60 21C142827G01 CNT01106 CNT01108 CNT01129 CNT01152 CNT01431	Weatherking 840-4-5548	White-Rodgers 47D40-801 47D43-101 47D43-111 47D43-111 02 47D43-811 90-621
<b>Coleman</b> 3030A374	<b>Heil/Tempstar</b> 1087952 1087953 1173636 CEPL130524-01	<b>Intertherm</b> 6208800	<b>Lennox</b> 100269-01 100269-02 100269-04 100269-05 11K7101		<b>White-Rodgers</b> MOBILE EMERSON		For complete, up to date cross reference information, install WRMobile on your iOS or Android smartphone today.