



**47D01U-843**

**47D01U-843 UNIVERSAL HEAT PUMP  
DEFROST CONTROL**

Universal upgrade for single stage heat pump systems with a PSC fan Motor. Select from pre-configured demand timed defrost routines or configure to replicate virtually any set up.

**FEATURES**

**Universal Replacement**

- Selectable demand or timed defrost
- O or B reversing valve
- Congures to any system

**Easy Installation & Set Up**

- Universal mounting with rotating display
- Pre-configured for major OEM brands
- Integrated outdoor thermostat

**Versatile Matrix Display**

- Access set up and diagnostic menus from any orientation

**Compressor Protection**

- Brown out and short cycle protection plus
- Hi/Low pressure inputs

**Replacement Kit Contents**

- Defrost control board
- Wiring harnesses
- New coil and ambient temp thermistors
- Mounting accessories and labels

**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.

**SPECIFICATIONS**

|                                       |   |
|---------------------------------------|---|
| <b>Electrical Rating:</b>             |   |
| Control Voltage . . . . .             | 24VAC 50/60 Hz                            |
| Line Voltage . . . . .                | 208/240 VAC 50/60 Hz                      |
| <b>Input Ratings:</b>                 |   |
| Outdoor PSC Fan . . . . .             | 0.5 HP @ 240 VAC, 0.125 HP @ 120V AC      |
| Contactors Coil . . . . .             | 24 VAC                                    |
| Aux Heat (D/W/X@) . . . . .           | 24 VAC                                    |
| Reversing Valve . . . . .             | 24 VAC                                    |
| Auxiliary Heat Lockout . . . . .      | Selectable from 0° to 40°F or off*        |
| Compressor Lockout . . . . .          | Selectable from -10° to 45°F or off*      |
| Reversing Valve Shift Delay . . . . . | Selectable 0, 12 or 30* second delay      |
| Short Cycle Protection . . . . .      | 0, 3 or 5* minute selectable delay        |
| Brownout Protection . . . . .         | Selectable On* or Off                     |
| <br>                                  |   |
| 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                  |

COOLING / REFRIGERATION

**CROSS REFERENCE**

**47D01U-843 Replaces:**

|                     |                      |                   |                |                      |              |                      |
|---------------------|----------------------|-------------------|----------------|----------------------|--------------|----------------------|
| <b>Amana</b>        | <b>Evcon</b>         | ICM302C           | 97M81          | 47-21517-13          | 21C140501G38 | CNT05875             |
| C64301-1            | 9218-374             | ICM303C           | LB-101263A     | 47-21517-14          | 21C140501G42 | <b>Weatherking</b>   |
| C6431001            | <b>Fast</b>          | ICM304            | LB-101263B     | 47-21517-16          | 21C140501G44 | 840-4-5548           |
| <b>Arcoaire</b>     | 1093410              | ICM307            | <b>Nordyne</b> | 47-21517-17          | 21C140501G45 | <b>White-Rodgers</b> |
| 32312-00            | <b>Goettl</b>        | ICM316            | 620880         | 47-21517-18          | 21C140501G53 | 47D40-801            |
| 3232140             | 305007               | ICM317            | 621301A        | 47-21517-22          | 21C140501G54 | 47D43-101            |
| <b>Armstrong</b>    | <b>Goodman</b>       | ICM318            | 621579B        | 47-21517-23          | 21C140501G55 | 47D43-111            |
| 39840B001           | 1084-03-2022         | ICM319            | 621579C        | 47-21517-24          | 21C140501G60 | 47D43-111 02         |
| 44614-001           | 1084-200D            | ICM320            | 624519A        | 47-21517-82          | 21C142827G01 | 47D43-811            |
| 44614-002           | 20293901             | ICM321            | 624608         | 47-21517-88          | CNT01106     | 90-621               |
| 46257-001           | B1226006             | ICM322            | 624626         | 47-21517-92          | CNT01108     | <b>York</b>          |
| 47181-001           | B1226008             | ICM323            | 624633         | 47-21776-01          | CNT01129     | 031-00872-001        |
| R46257-001          | LR40061              | W1001-4           | 624644         | 47-21776-06          | CNT01152     | 031-00872-002        |
| R46614-002          | PCBDM101             | <b>ICP</b>        | 624656         | 47-21776-86          | CNT01431     | 031-00872-003        |
| R47181-001          | PCBDM130             | 1052757           | 624700         | DDL-013002-0RH       | CNT01510     | 031-00872-701        |
| <b>Carrier</b>      | PCBDM133             | 1069364           | 917012         | DDL-013002-1RH       | CNT01642     | 031-00872-702        |
| 150-83-6A           | PCBDM160             | <b>Intertherm</b> | 917178         | DDL-013102-1RH       | CNT01923     | 031-00872-703        |
| 621-xxx             | <b>Heil Quaker</b>   | 6208800           | 917178A        | DDL-017002-2RH       | CNT01924     | 031-01222-000        |
| CES0110063-00       | HQ1052757            | <b>Lennox</b>     | 920338         | DDL-017102-1RH       | CNT01926     | 031-01251-000        |
| CES0110063-01       | <b>Heil/Tempstar</b> | 100269-01         | <b>Ranco</b>   | DDL-017702-1RH       | CNT02514     | 031-01268-000        |
| CES0110063-02A      | 1087952              | 100269-02         | DT2            | DDL-117702-3RH       | CNT02515     | 031-01954-000        |
| CES0130024-00       | 1087953              | 100269-04         | <b>Rheem</b>   | DDL-122131-2RH       | CNT02516     | 031-01975-000        |
| CES0130024-01       | 1173636              | 100269-05         | 47-102684-01   | <b>Robertshaw</b>    | CNT02920     | 031-09104-000        |
| CES0130076          | CEPL130524-01        | 11K7101           | 47-102684-02   | DT2-1000             | CNT02935     | 031-09170-000        |
| HK25SZ359A          | <b>Honeywell</b>     | 1507N170027       | 47-102684-03   | TD-10                | CNT03715     | 331-01975-001        |
| HK32EA001           | ST74A1004            | 29M0101           | 47-102684-04   | <b>SnyderGeneral</b> | CNT03716     | 331-01975-102        |
| HK32EA003           | ST74A1020            | 29M0201           | 47-102684-07   | 1395-329             | CNT04362     | 331-09139-000        |
| HK32EA007           | ST74A1038            | 30W87             | 47-102684-08   | CEBD430524-04B       | CNT04363     | 9218-3741            |
| HK32EA008           | ST74A1053            | 33G9501           | 47-102684-83   | <b>Tempstar/ICP</b>  | CNT04364     | S1-03100872701       |
| HK32FA003           | ST74C1002            | 34M6301           | 47-102685-01   | 1084-100             | CNT04366     | S1-03109170000       |
| HK32FA006           | <b>ICM</b>           | 46K67             | 47-102685-02   | 1084-83-1008         | CNT04368     | S1-33101954000       |
| <b>Coleman</b>      | DFORB24A21300        | 56M3701           | 47-102685-03   | 1087562              | CNT04695     | S1-33101975102       |
| 3030A374            | DFORB-AB1004         | 68J2901           | 47-102685-04   | <b>Trane</b>         | CNT05001     |                      |
| <b>Comfortmaker</b> | DFORF                | 68J8401           | 47-102685-05   | 21C140501G18         | CNT05008     |                      |
| 1029-2              | DFOSP24A2            | 78H6801           | 47-102685-06   | 21C140501G27         | CNT05009     |                      |
| 34332100            | ICM300C              | 84W8801           | 47-102685-84   | 21C140501G36         | CNT05010     |                      |
| 34332101            | ICM301C              | 86G1601           | 47-21517-11    | 21C140501G37         | CNT05482     |                      |