

Installation Instructions

Defrost Board Replacement Kit

These instructions are for replacement of the current ICM defrost board with the new UTEC defrost board.

WARNING: This type of equipment service is to be conducted only by qualified personnel.

The new UT defrost board is different from the current ICM board as indicated below:

1. The UT board is smaller.
2. The UT board has two mounting plastic stand offs and three supporting plastic feet.
3. The UT board has push-on quick connect terminals for thermostat connections.
4. Color coded wires and wire nuts are supplied with the board for field connection to thermostat.

Installation and Connections :

1. Disconnect all power to the unit.
2. Remove the control panel cover to access electrical components.
3. Remove factory wiring and thermostat wiring at the current defrost board.
4. Remove the board by snipping the four plastic stand offs and pull the board out. (Some split system boards have a screw terminal block and may require some manipulation to remove without having to disassemble any components).
5. Install the UT board in the same location, mounting the two plastic stand offs in two of the four existing holes. Board must be secured in place and positioned so that field terminals connecting to the thermostat are located within the low voltage barrier. No additional holes should be drilled. See Figure 1.
6. Replace all factory wiring to the new board. Refer to unit wiring diagram. (See note below).
7. Connect the six wires (supplied with the kit) to the appropriate quick connect terminals, observing proper color coding. See Figure 1.
8. Connect the stripped part of the six wires to the thermostat wires and secure with wire nuts (included).
9. Check that all connections are secure and tight.
10. Replace removed cover and restore power to unit.
11. Test board for intended functions.

Note: If old board has two "R" and "O" terminals, use the supplied terminal "wye" adapter as needed.

TESTING THE BOARD

Defrost Test Procedure

1. Terminals "R"- "C" must have 18-30v present between them in order for time delay and defrost sequences to be initiated.
2. With compressor running in heat mode, first jump the "T2"- "DFT" test pins. This will indicate to board that defrost T-stat is closed. Defrost T-stat closes at 32°, opens at 68°.
3. Next jump the "Test" pin to "C" on terminal strip. This will initiate defrost test in 5, 10 or 15 seconds (This is determined by 30, 60 or 90 minutes defrost pin settings). Factory setting will be 30 minutes.
4. When the reversing valve shifts to the defrost mode, quickly remove jumper from "Test"- "C". If the jumper is not removed within a 5 second period, the defrost test will terminate. Unit will continue to stay in defrost mode Until :
 - A) Board recognizes that defrost sensor has reached 68° and opened or
 - B) "T2"- "DFT" jumper is removed or
 - C) 10 minutes have elapsed (board override)

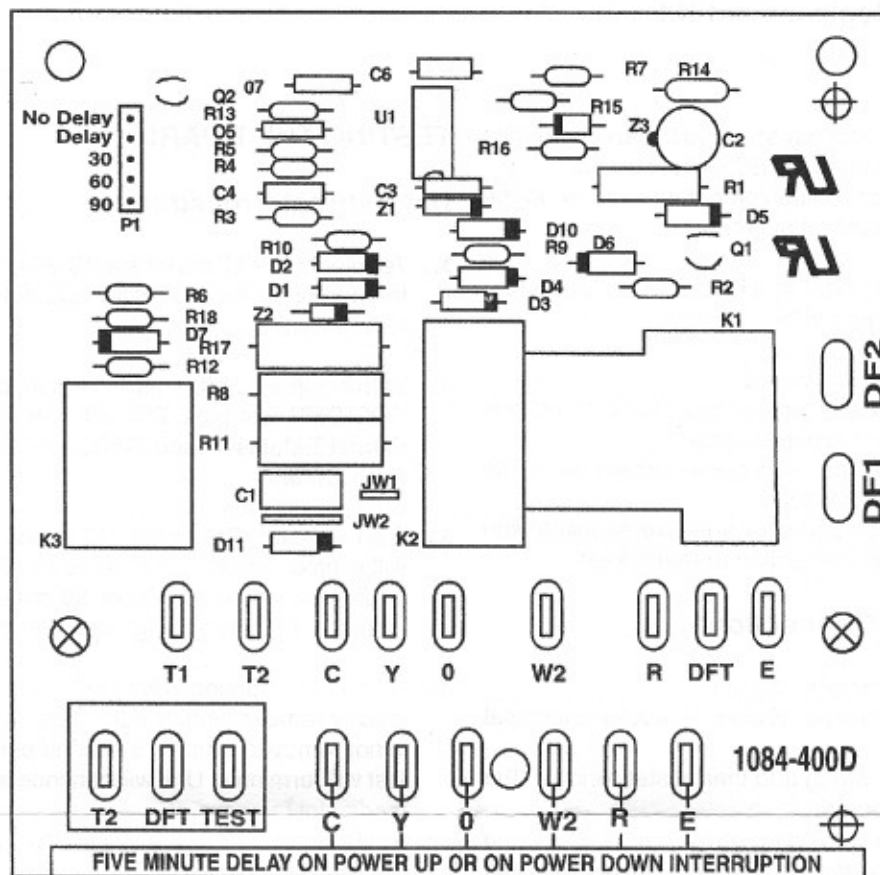
If the above steps will not initiate a defrost, replace the defrost board.

Note: The delay/no-delay pin concerns compressor operation when coming out of defrost. The default setting is no delay. Reciprocating compressors should always use this setting. Scroll compressors that have noise issues while coming out of defrost should use the 30 second delay to prevent the noise from occurring. To switch from no-delay to delay remove the pin from the "no-delay" pin location and shift it to the "delay" pin location.

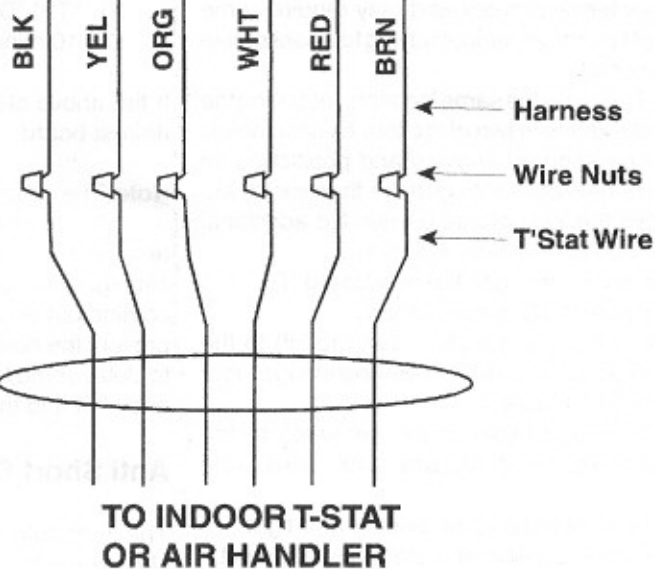
Anti Short Cycle Timer Test

The 5 minute time delay feature can be bypassed or shortened to 1 second by jumping the "Test" to "C" terminal.

Note: If jumper is left on the "Test" to "common" pins permanently, the defrost cycle will become inoperable.



- ⊗ - Mounting Stand-off
- - Support Feet



Split System Heat Pump

INSTALLATION INSTRUCTIONS

Drip Hood Kit 1.5 - 5.0 ton HP

INTRODUCTION

These instructions are primarily intended to assist qualified individuals experienced in the proper installation of heating and/or air conditioning appliances. Before beginning the installation, read these instructions thoroughly and follow all warnings and cautions in the instructions and on the unit. Improper installation, service, adjustment, or maintenance can cause explosion, fire, electrical shock, or other conditions which may result in personal injury or property damage.

The drip hood kit is designed for use in split system heat pump products. The kit consists of a sheet metal bracket and a screw for mounting. The kit is intended to prevent condensate from dripping onto the control board.

INSTALLATION SEQUENCE

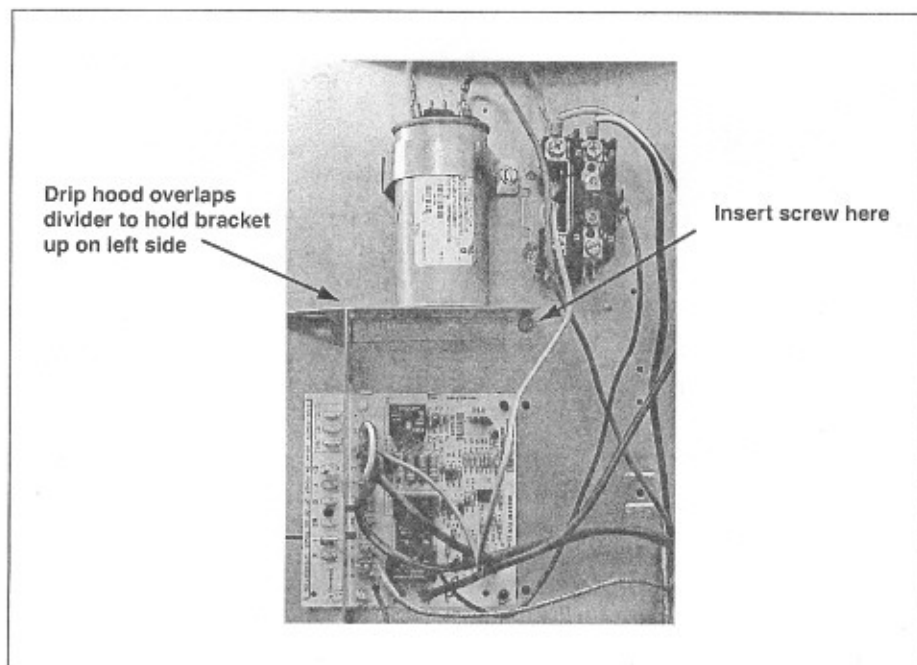
WARNING!

To avoid risk of electric shock, personal injury, or death, disconnect electrical power to the unit before performing any maintenance or service. The unit may have more than one electric power supply.

See the manufacturer's instructions for more installation information.

The installation sequence is as follows:

1. Read these installation instructions completely before proceeding.
2. Disconnect all power to the unit.
3. **Remove access panel from unit:** This will expose the electrical components for the condenser.
4. **Install drip hood:** Using the screw provided and the existing hole in the control panel attach the drip hood to the control panel. See figure below.
5. Install the access panel and apply power to the unit. The system is now ready for operation.



Driphood Installation Location

