CVD2075 Condensing Unit Wiring and Start Components

Affected Model - CVD2075 Condensing Unit (Scroll Compressor) Manufactured Between 10/05 and 4/07.

CVD2075 condensing units manufactured between 10/05 and 4/07 used #10 stranded wire secured under the set screws on the contactor. This can result in a poor electrical connection, higher than normal current draw (high amps) and breaker trips. This problem will be compounded if wire size is marginal for the length of the run, or a fluctuating power supply is encountered. Due to the additional stress on the start components and contactor the following procedure must be followed.

Order Replacement Parts

Order the following parts for single phase ice machines:

60hz

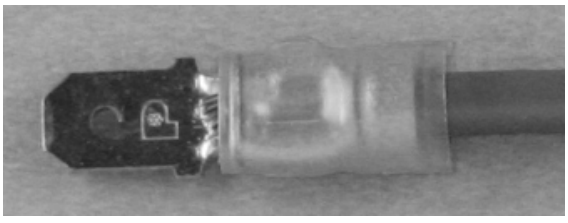
- Start capacitor 60hz - Part Number 000000021
- Run capacitor 60hz - Part number 8250243
- Potential relay 60hz - Part number 2007579
- Contactor 60hz - Part Number 2000303

50 hz

- Start capacitor 50hz - Part Number 8505523
- Run capacitor 50hz - Part number 8504493
- Potential relay 50/60hz - Part number 2007579
- Contactor 50/60hz - Part Number 2000303

Component Replacement

1. Disconnect power, lock out/tag out the condensing unit.
2. Remove the wire nuts connecting the incoming power lines to L1 & L2.
3. Remove the wires from T1 & T2 on the contactor.
4. Provide and install male crimp style connectors on T1 & T2 (Do not use female push on connectors).



Install male crimp connector on contactor T1 & T2 wires and on L1 & L2 when #10 stranded wire is used.

5. Remove old contactor with L1 & L2 pigtails attached, then install new contactor.
6. Mount T1 & T2 wires (with male crimp connector) under the contactor set screws and torque to the specification on the contactor.
7. Identify the incoming power supply wire on your ice machine:
   - #8 solid or stranded or #10 solid wire to condensing unit - Mount L1 & L2 wires under the set screws and torque to the specification on the contactor. Do not use the original pigtail connection.
   - #10 stranded wire to the condensing unit- Provide and install male crimp style connectors on L1 & L2. Mount L1 & L2 wires under the contactor set screws and torque to the specification on the contactor.



Insert male crimp connectors beneath the set screws and torque to specification on contactor label.

8. Remove start capacitor, run capacitor and potential relay and replace with the new components.
9. Test run the ice machine. Check voltage at start up. If the voltage drop is 5% or greater, check all wiring connections back to the power supply panel. Restart machine and check voltage drop - If the voltage drop is still exceeding 5% contact a qualified electrician to determine the cause.