1.0 SCOPE / PURPOSE

RCC change out or repair determination.

2.0 PROCEDURE

Troubleshoot unit to determine if electrical component change will resolve issue or if refrigeration system will need to be worked on:

1. Confirm 24VDC from battery to compressor solenoid
2. Confirm control voltage to and from the binary switch
3. Confirm 3 phases of power from the controller to the compressor
4. Confirm power from the solenoid to the controller and then check indicator light for fault sequence
5. Confirm compressor operation

If step 1 is not confirmed then check for 24 VDC back from the solenoid through the breaker, disconnect switch, and then the battery connections

If step 2 is not confirmed then check for the control voltage back through the binary switch and then to the thermostat. If there is voltage entering the binary switch but not leaving then either the switch has failed or the refrigeration system has to be inspected. If there is no voltage at the binary switch then there is either an issue in the cable or the thermostat.

If in step 3 there is 24 VDC entering the controller but there is not 3 phases leaving then the controller has failed or the compressor overload is open. If the three phases are going to the compressor but the compressor is not running then the compressor has failed.

If in step 4 the controller has incoming power but the 3 phase power is not leaving to the compressor then check the LED fault indicator, count the flashes, and refer to the troubleshooting manual.

If in step 5 the compressor operation is confirmed by a suction/discharge pressure difference then the issue may be either in the metering device or the blower pack issue.

*If all five steps are confirmed then the issue is not in the RCC and the issue is most likely in the evaporator/blower pack section.

3.0 Field/Shop Service and Repair Tool List

1. Multi-meter (with 24VDC capabilities)
2. R-134a refrigeration testing gauges
3. Refrigerant leak soap or electronic leak detector
4. Reclaim cylinder
5. Recovery unit
6. Vacuum pump
7. Vacuum gauge
8. Nitrogen with nitrogen gauge
9. R-134a refrigerant / weigh scale
10. Standard hand tools
11. EZ-Clip O-ring and Fitting Kit

4.0 Recommended Spare Parts List (per 5 units)

PART NUMBER	QTY / UNIT DESCRIPTION
NPMN71-01-007	1 / CONDENSER LOUVRE PANEL
NPMN40-20-025	1 / MOUNTING PARTS FOR COMPRESSOR
NPMN65-01-003	1 / 24VDC COMPRESSOR ASSEMBLY (65-01-001)
NPMN53-04-000	1 / CONTROLLER ENCLOSURE ASSEMBLY
MN60-08-003	1 / RECEIVER / DRYER – 350*(not on CRC5-CWC-02)
MN62-13-004	1 / 350 BIANARY PRESSURE SWITCH*(not on CRC5-CWC-02)
MN20-07-004	1 / 5.4' MAXIMUM OPENING LATCH CLAMP
NPMN07-01-007	2 / BLOWERS-AXIAL,200mm,24V DC,VGC24 200V
MNMA-04-021	1 / 8" FINGER GUARD
MN2000Z123	1 / RELAY 24VDC
NPMN40-01-000	1 / SOLENOID - CONTINUOUS DUTY 24V, 85A
NPMN40-17-038	1 / MAIN POWER CABLE
NPMN40-17-039	1 / CLUTCH CABLE
NPMNRC-05-007	1 / REMOTE CONDENSER LID
NPMNRC-05-005	1 / RCC CONDENSER COIL
MN40-02-001	1 / 10 AMP BREAKER