



**COMPRESSOR SERVICE REPLACEMENT KIT
P/N 629097256 (WCU600, 115/60, AIR COOLED)
Installation Instructions**

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The products, technical information, and instructions contained in this manual are subject to change without notice.

These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

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Contact Information:

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

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This document contains the original instructions for the unit described.

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COMPRESSOR SERVICE REPLACEMENT KIT

SAFETY INSTRUCTIONS

WARNING:

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

CAUTION:

Always be sure to keep area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

PARTS LIST

These instructions describe how to install a replacement refrigeration compressor.

1. Unpack and inspect the kit.
2. Make sure all parts listed are present and in good condition.

Loose-Shipped Parts			
Sl.No.	Part Number	Description	Qty.
1	620054119	Compressor Copeland 404A RST64	1
2	620055910	Set Mount Compressor	1
3	620057416	Tubg Suction Line Assembly, WCU 600 Kit	1
4	620057148	Line Discharge WCU-600A	1
5	620057414	Line Head Master Valve, WCU600A Kit	1
6	620057415	Tubg Low Pressure Switch, WCU600A Kit	1
7	620057417	Label Comp Internal	1
8	620057418	Label External	1
9	620055906	Harn Compressor IMD600/300-30A	1
10	620055912	Heater Crankcase Assy for RST64	1
11	620057413INS	Manual Installation Compressor Replacement	1

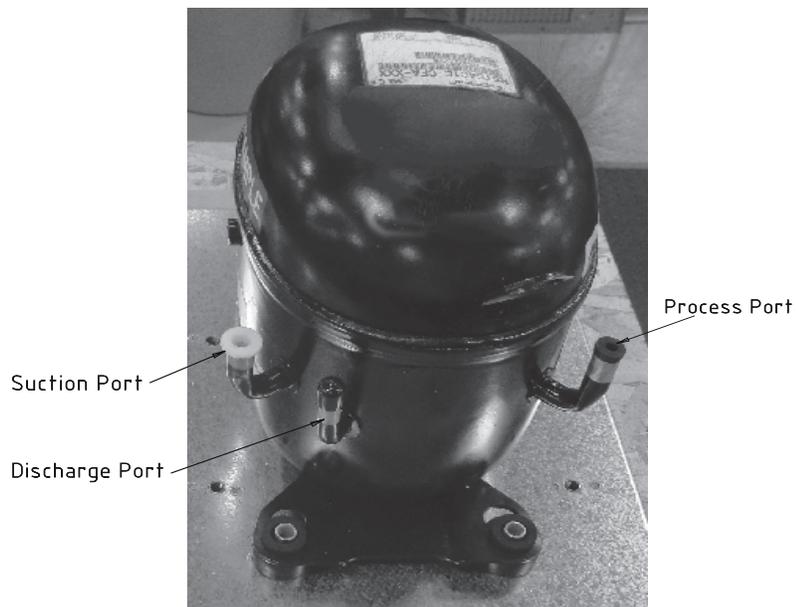


Figure 1. New Compressor with Grommets

REPLACEMENT COMPRESSOR

1. Remove the electrical connections from the existing Compressor E-Box and remove the existing Compressor cable. After removing the harness remove the E-Box from the unit for easy installation of compressor and copper tubings.
2. Remove the pressure sensor from low pressure switch assembly without damaging the sensor.
3. Debraze the tubings from low, discharge side and low pressure switch then disassemble and remove the existing compressor as per established procedures in handling refrigerants.
4. Put the Label 620057417 on the new Compressor, just above the seam. Refer Figure 2.

THIS SEALED UNIT HAS BEEN CONVERTED TO USE COMPRESSOR MODEL RST64C1E-CFA-201. THE NEW REFRIGERANT CHARGE IS 79 OUNCES OF R404A.

Figure 2. Compressor Sticker

5. Position new compressor with grommets on the mounting bracket and secure using bolts, washers.

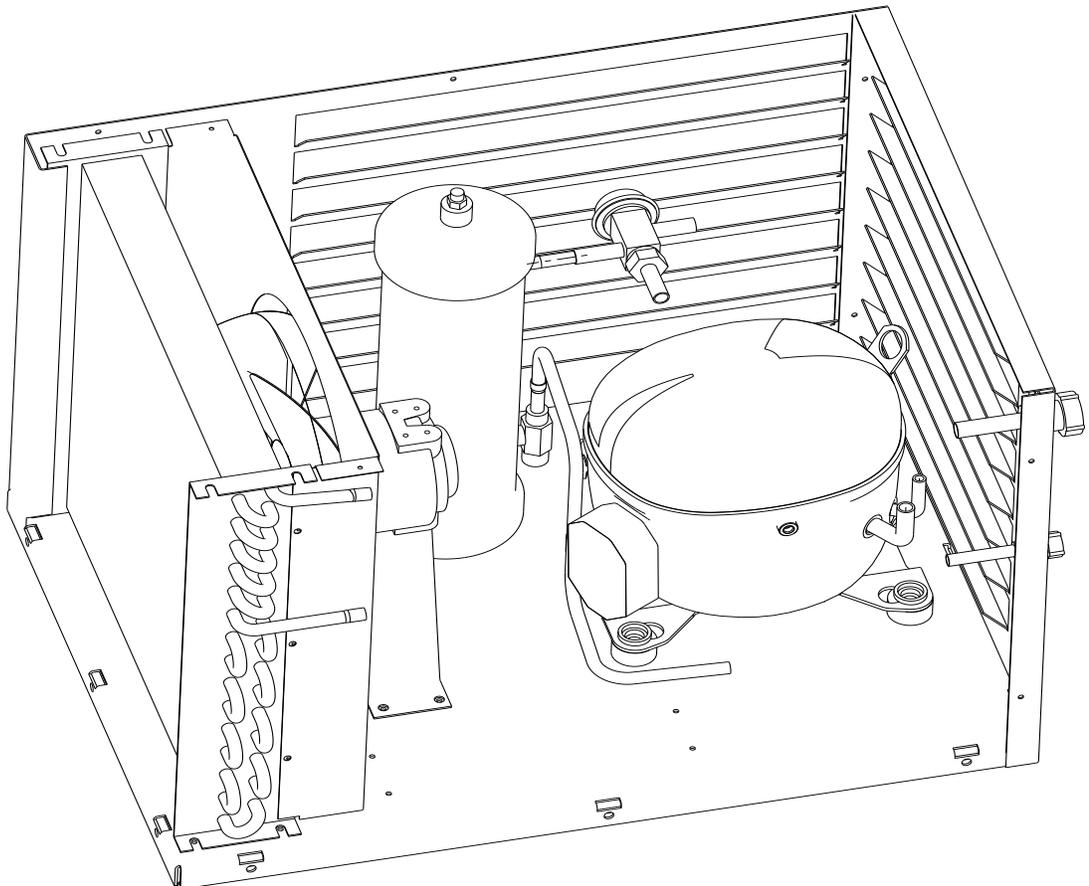


Figure 3. Schematic showing the orientation of the New Compressor

6. Release the Nitrogen from the Compressor. Connect the low pressure switch tubing as shown in Figure 4.

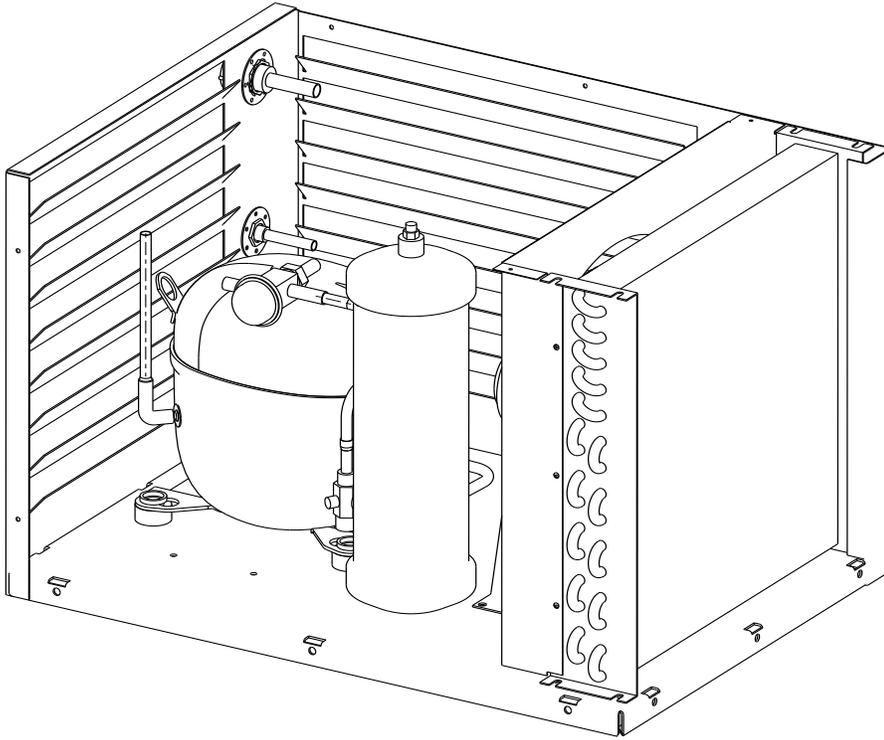


Figure 4. Connection of Low Pressure Switch Tubing

7. Connect the low pressure sensor with required fittings as shown in Figure 5.

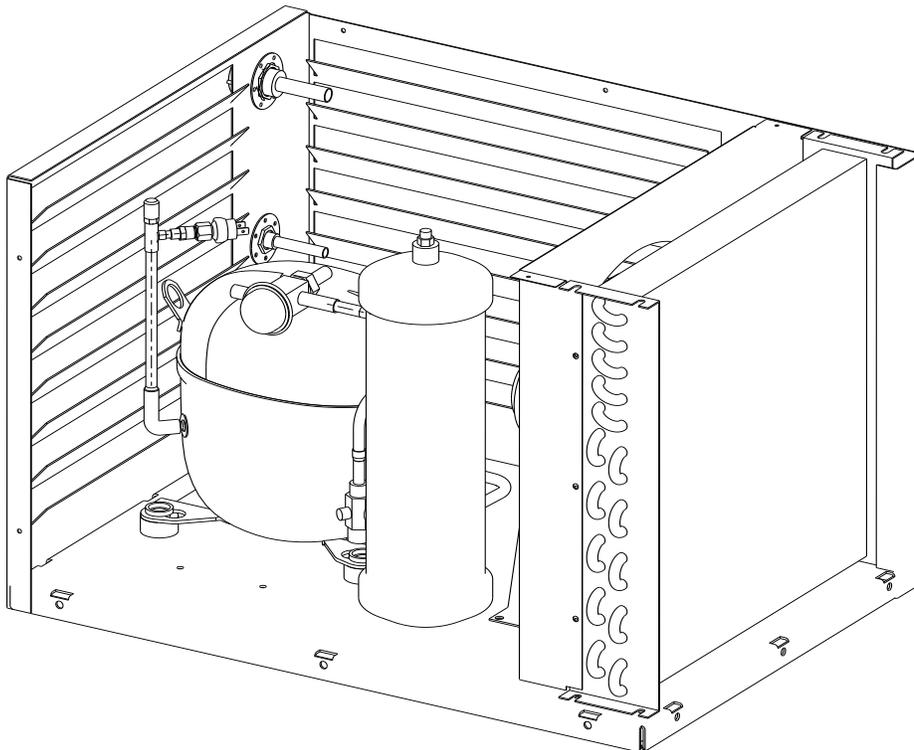


Figure 5. Connection of Low Pressure Sensor Assembly

8. Connect the head master valve line in order to braze the discharge tube as shown in Figure 6.

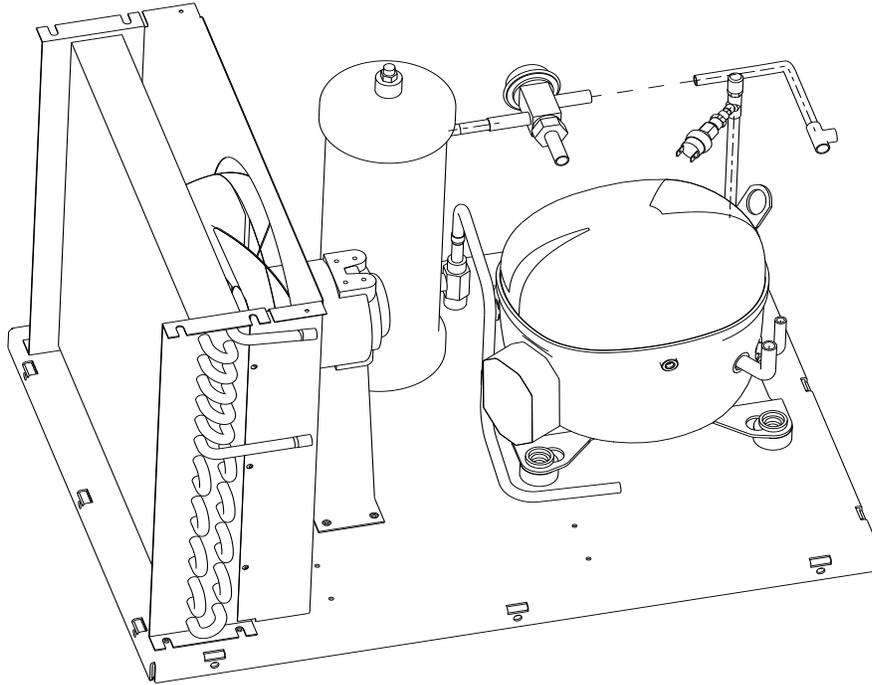


Figure 6. Connection of Head master valve line.

9. Connect the discharge tube as shown in Figure 7.

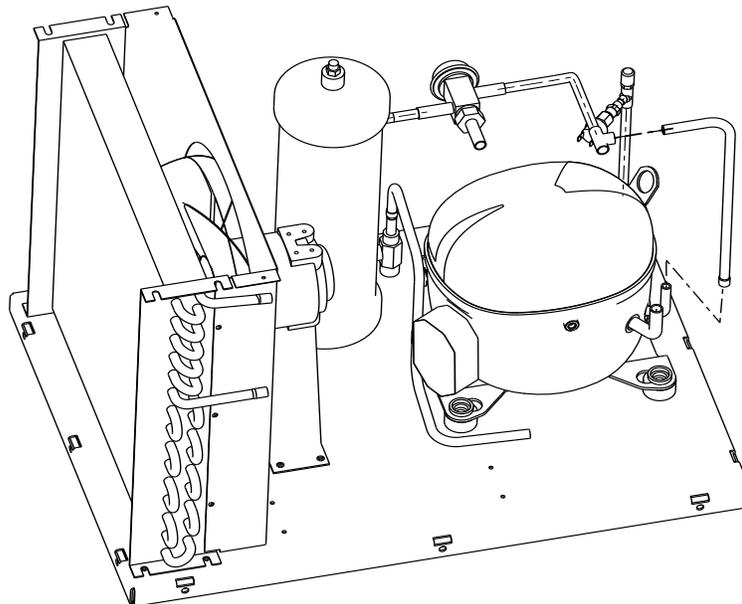


Figure 7. Connection of discharge line

10. Connect the head master valve line to condenser IN and OUT respectively as shown in Figure 8.

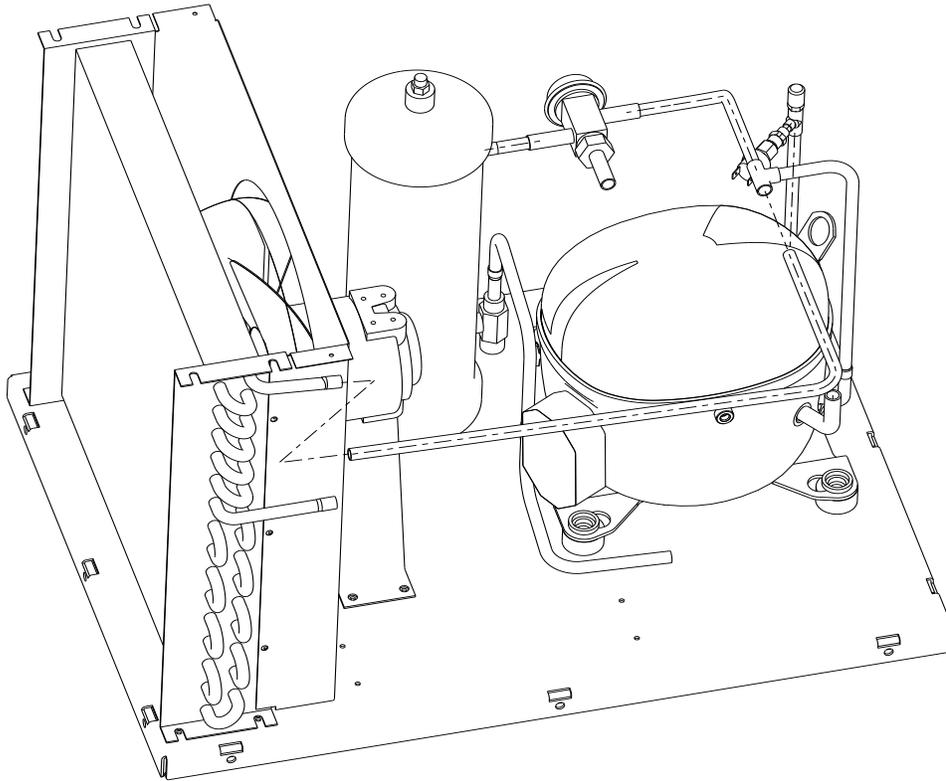


Figure 8. Connection of Headmaster Valve to Condenser IN

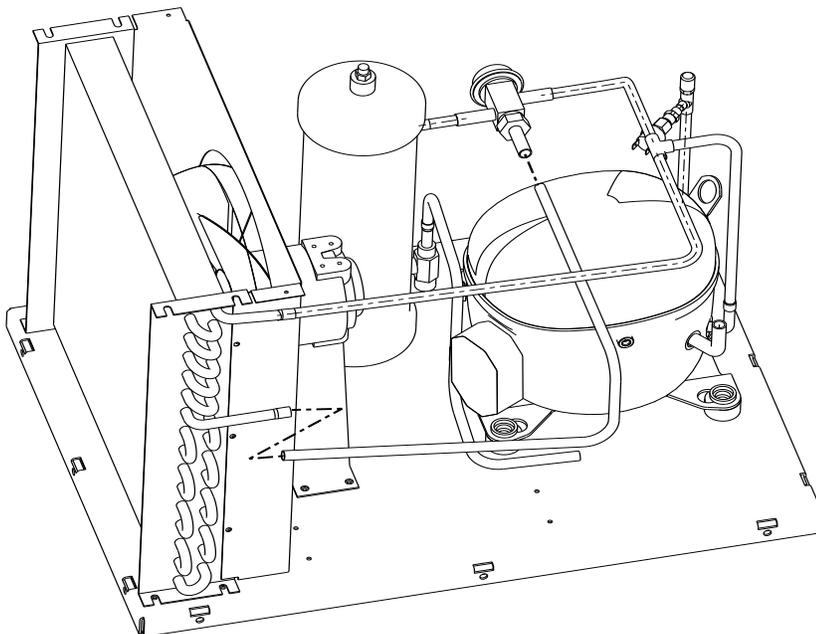


Figure 9. Connection of Headmaster Valve to Condenser OUT

11. Connect the suction line tubing as shown in Figure 10.

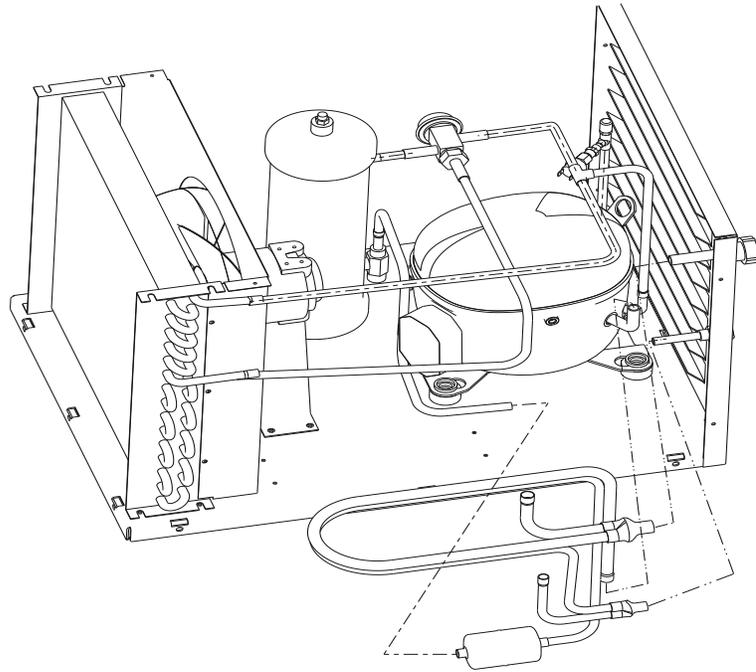


Figure 10. Connection of Suction Line Tubing

12. Braze all joints and ensure all the Tubings are placed and put back the E-Box as shown in .

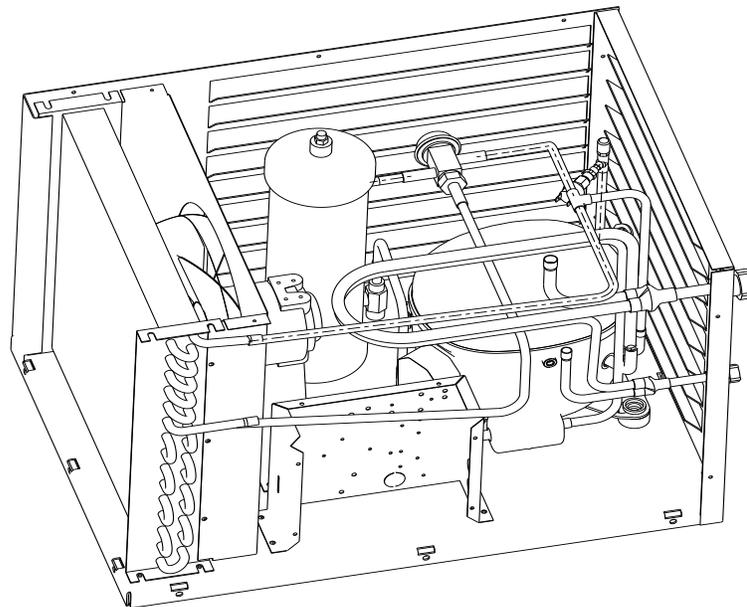


Figure 11.

NOTE: Ensure that all electrical components i.e Compressor, Condenser Fan Motor, Compressor E-Box and Control E-Box are properly grounded according to Federal, State and Local laws

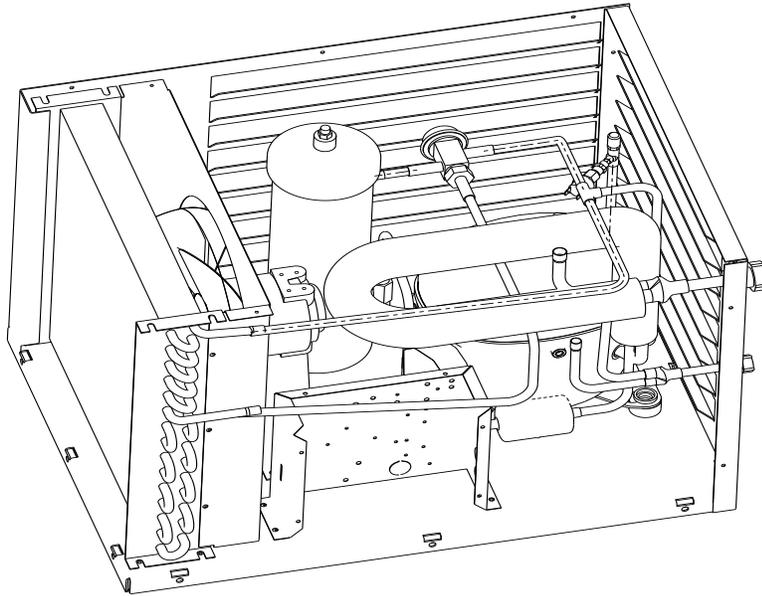


Figure 12. Refrigeration Layout

13. Make sure all electrical connections are properly connected.
14. Connect electrical power and confirm proper operation.
15. Put the label 620057418 on the back panel below the serial label see Figure 13.

THIS SEALED SYSTEM HAS BEEN CONVERTED TO USE
COMPRESSOR MODEL RST64CIE-CFA-201

USE THE FOLLOWING NUMBER TO ORDER COMPONENTS:

620054119 COMPRESSOR	620054243 START CAPACITOR
620057148 LINE DISCHARGE	620054254 RUN CAPACITOR
620057416 TUBG SUCTION LINE ASSY,	620055910 MOUNTING SET
620057414 LINE HEADMASTER VALVE	620055906 HARN COMPRESSOR
620057415 TUBG LOW PRESSURE SWITCH ASSY.	
620055912 HEATER CRANKCASE ASSY.	

Figure 13.

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