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**COMPRESSOR SERVICE REPLACEMENT KIT**  
**P/N 629097166 (WCC 500A, 115/60, AIR COOLED)**  
**INSTALLATION INSTRUCTIONS**

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**Revision: B**

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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.

This Product is warranted only as provided in Cornelius' Commercial Warranty applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

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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

### **⚠ 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.**

### **⚠ WARNING:**

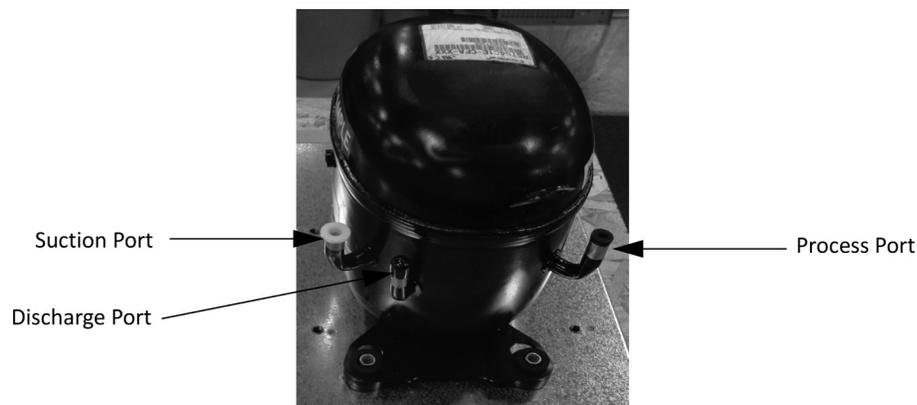
Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

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

These instructions describe how to install a replacement refrigeration compressor.

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

Loose-Shipped Parts			
SI.No.	Part Number	Description	Qty.
1	620054548	Compressor Copeland RST45	1
2	620054549	Compressor E-Box Assembly RST45	1
3	620055910	Set Mount Compressor	1
4	620055907	Tube Suction Line Assembly	1
5	620054227	Tube Discharge	1
6	620056299	Dryer Assembly	1
7	620056388	Label Compressor	1
8	620056305	Label External	1
9	169225015	Insulation 3/4ID X 3/8 wall	8 Ft.
10	620056168	Wire Harness	1
11	620055364	Cable Compressor	1
12	620055361	Wire Grounding	1
13	620056387INS	Manual Installation Instructions	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.
2. Remove the existing Compressor E-Box from the base panel.
3. Disassemble and remove the existing compressor and Tubings (Debraze the condenser tubing) as per established procedures in handling refrigerants.
4. Drill a 0.157" diameter hole on the base panel as shown in Figure 2 for mounting the new Compressor E-Box.

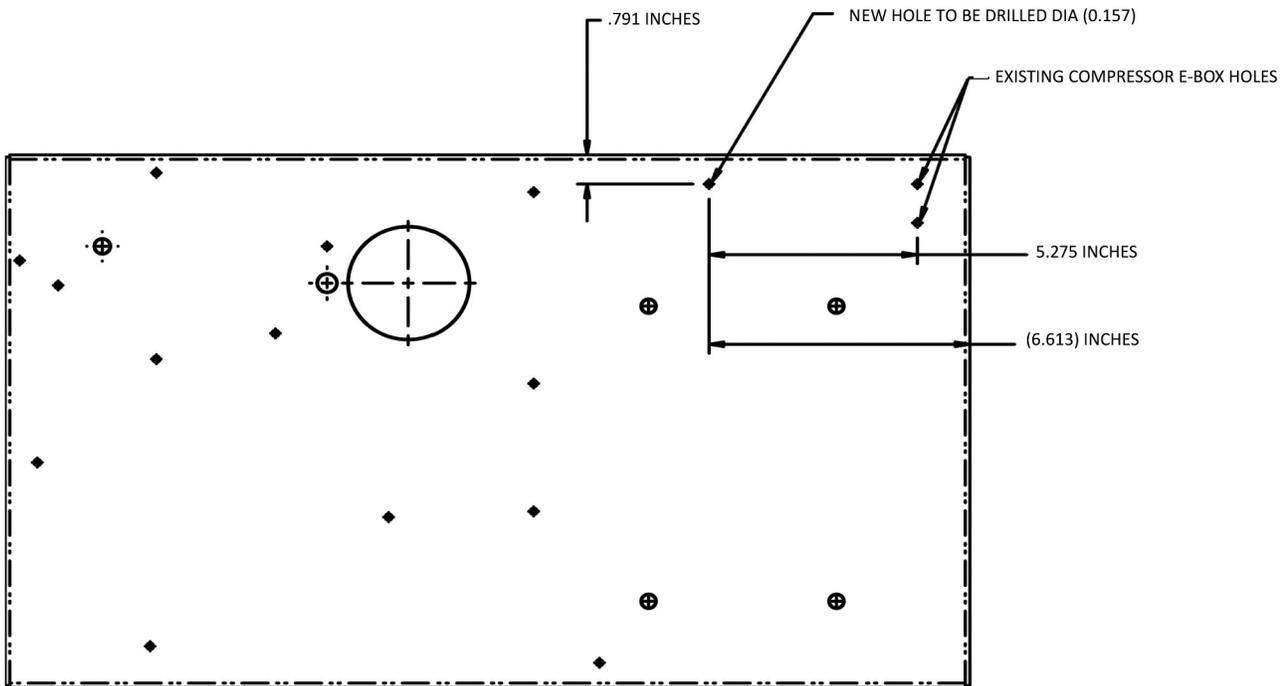


Figure 2. Location of the hole to be drilled on base panel

5. Put the Label 620056388 on the new Compressor, just above the seam. Refer Figure 3.

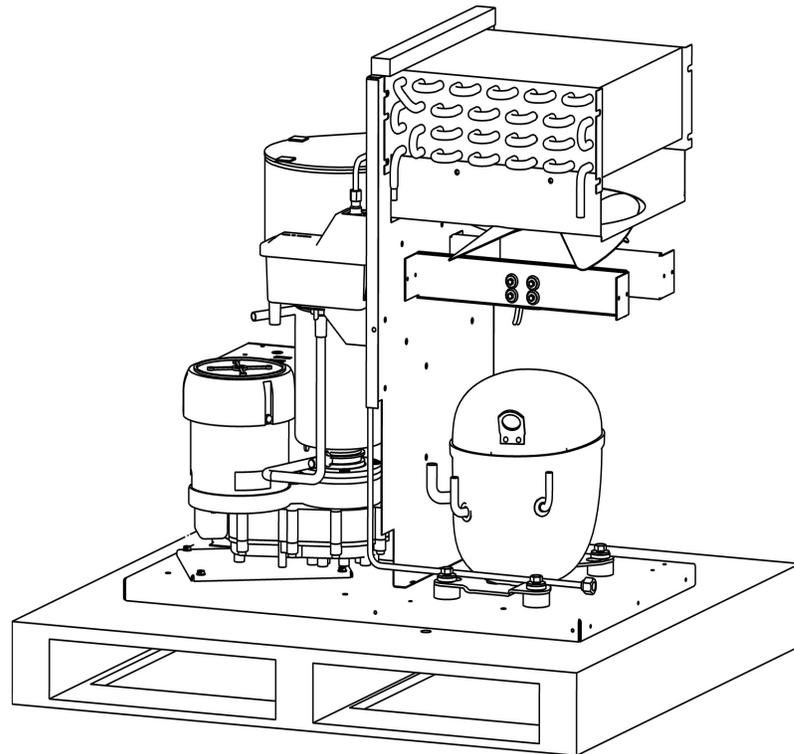
THIS SEALED SYSTEM HAS BEEN CONVERTED TO USE  
COMPRESSOR MODEL RST45CIE-CAA

USE THE FOLLOWING NUMBER TO ORDER COMPONENTS:

620054548 COMPRESSOR	620055715 START CAPACITOR
620054227 DISCHARGE TUBE	620055716 RUN CAPACITOR
620056299 DRYER ASSY	620055910 MOUNTING SET
620055907 SUCTION TUBE ASSY	
620054549 COMPRESSOR E-BOX	

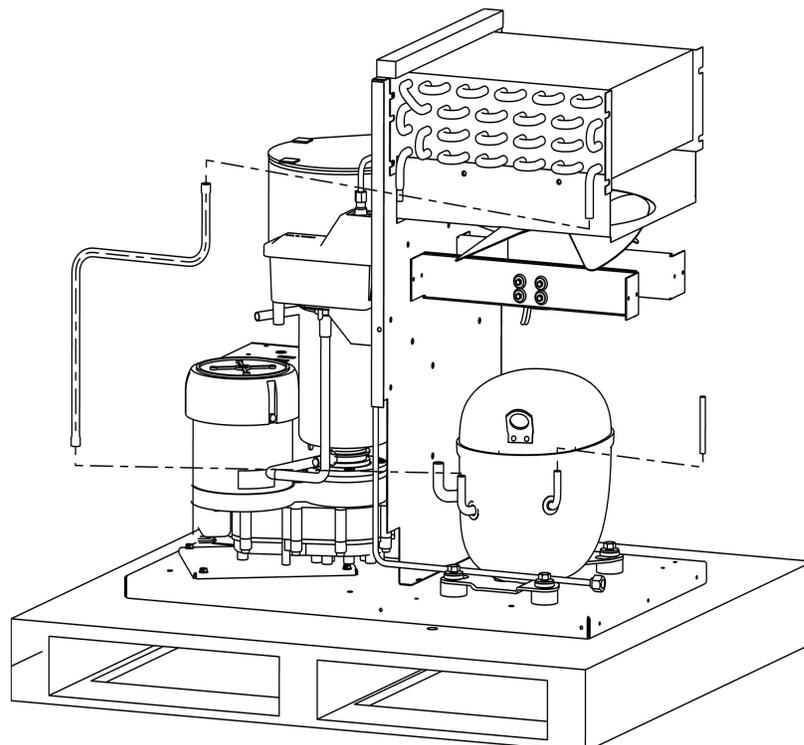
Figure 3. Compressor Sticker

6. Position new compressor with grommets on the base panel and secure using bolts, washers.



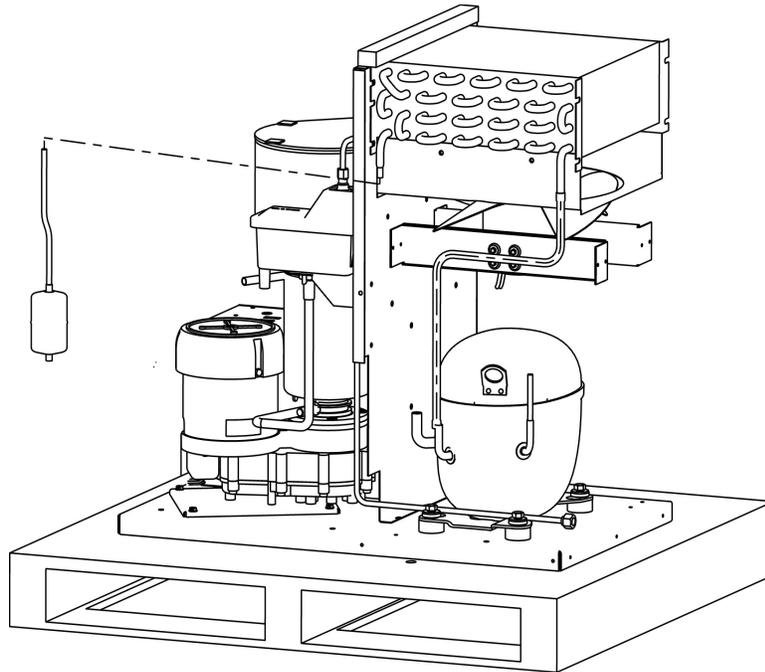
**Figure 4. Schematic Showing the Orientation of the New Compressor**

7. Release the Nitrogen from the Compressor. Connect the Discharge tube and Process tube as shown in Figure 5.



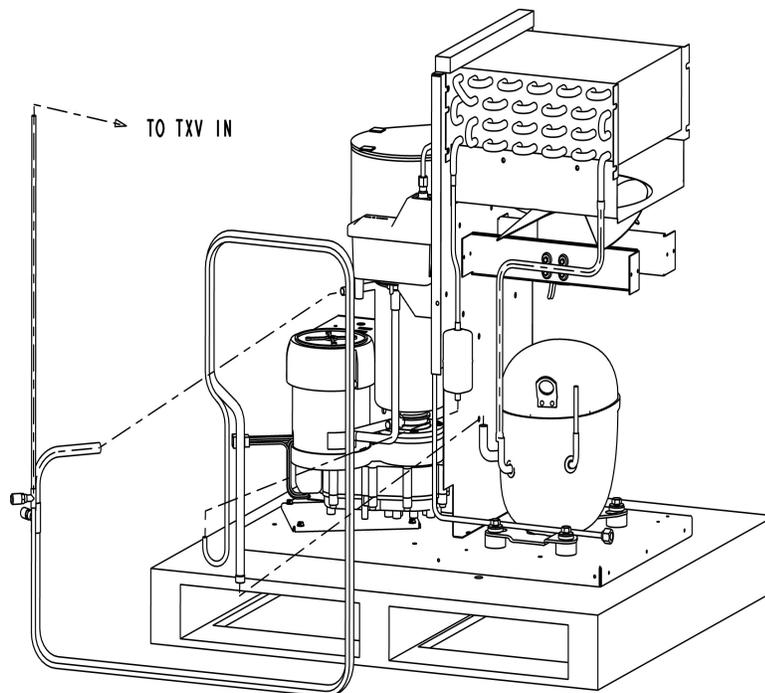
**Figure 5. Connection of Discharge Tube & Process Tube**

8. Connect the Dryer assembly as shown in Figure 6.



**Figure 6. Connection of the Dryer assembly**

9. Connect the Suction HX assembly as shown in Figure 7.



**Figure 7. Connection of the Suction HX assembly**

10. Braze the joints, evacuate and charge with refrigerant per established procedures in handling refrigerants. Make sure that TXV Bulb is not placed on Brazing bead/seam. Mount the TXV bulb in 12° Clock position.

11. Insulate the suction line assembly and TXV as shown in Figure 8 and put the tie wraps firmly on the insulation.

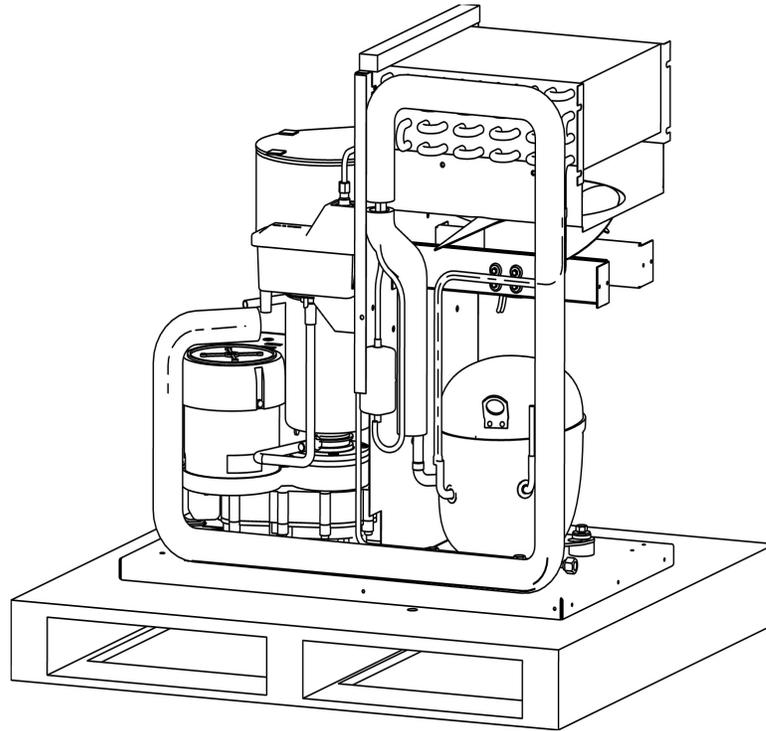


Figure 8. Refrigeration Layout

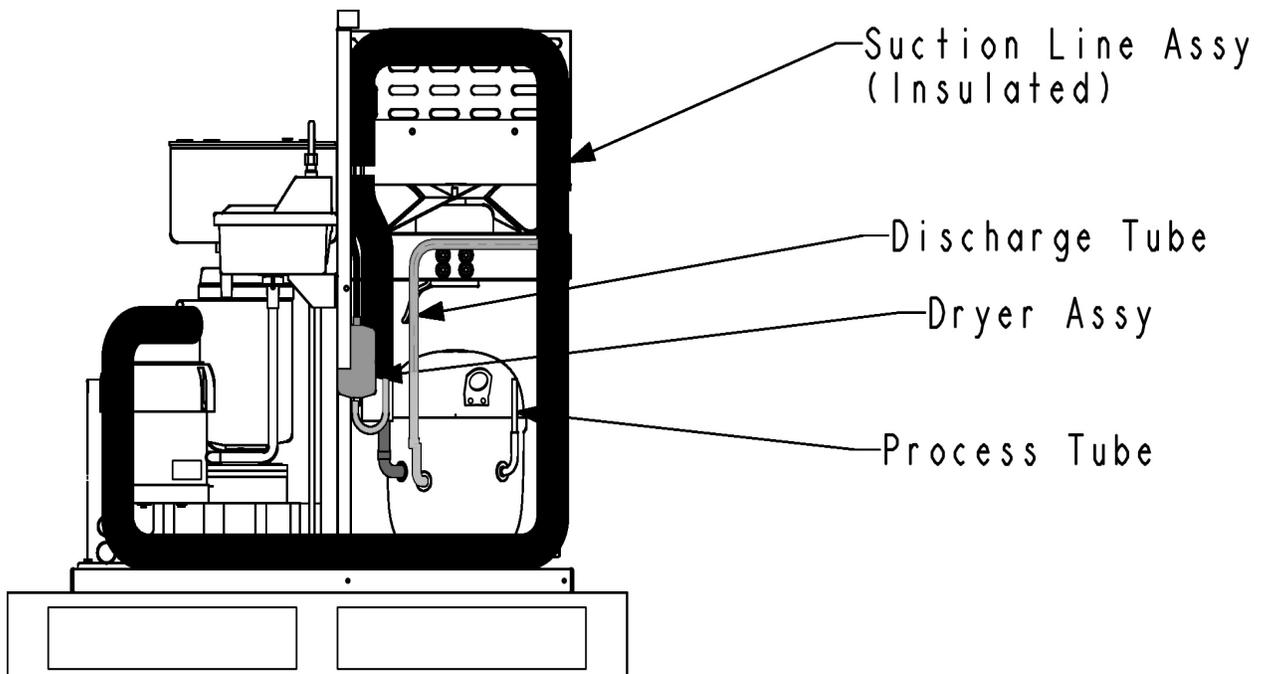
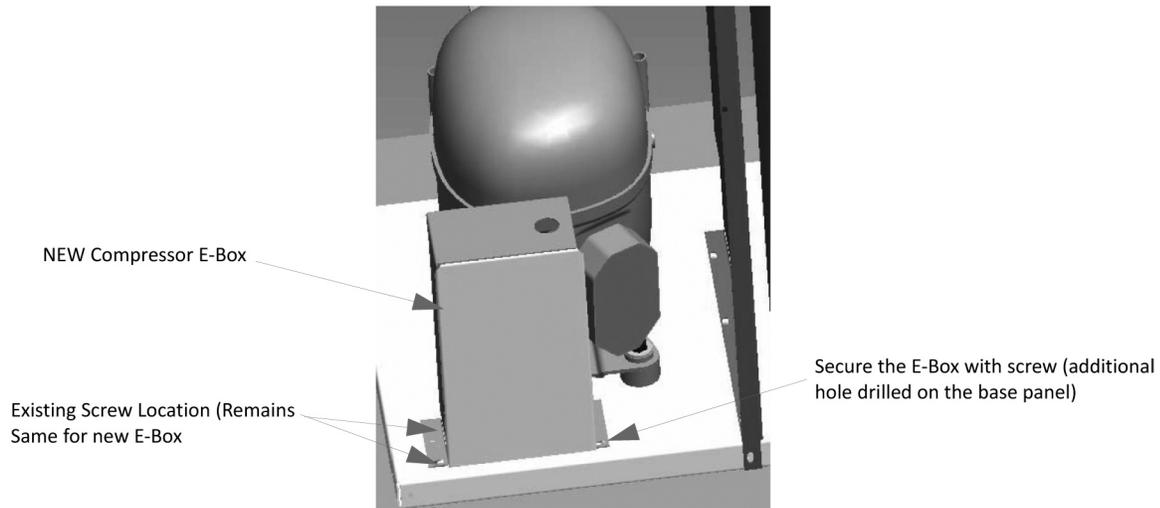


Figure 9. Refrigeration Layout with New Tubings Highlighted

12. Install the new compressor E-Box on the base frame. Refer Figure 10.



**Figure 10. Installation of New Compressor E-Box**

**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.**

13. Connect electrical power and confirm proper operation.

14. Put the label 620056305 on the back panel below the serial label. Refer Figure 11.

THIS SEALED UNIT HAS BEEN CONVERTED TO USE  
COMPRESSOR MODEL RST45CIE-CAA THE NEW  
REFRIGERANT CHARGE IS 20 OUNCES OF R404A.

**Figure 11. External Label**



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