

INSTALLATION INSTRUCTIONS

KIT P/N 620059722 FOR QUEST HYDROCARBON RETROFIT

SAFETY

 **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.

FIRE HAZARD WARNING

 **WARNING:**

This unit contains a flammable refrigerant. Keep all flammable materials away from the compressor area. Always be sure to keep the area around the unit clean and free of clutter.

Failure to keep this area clean may result in a fire hazard, injury or equipment damage.

NOTE: This Kit Manual is released to service the field units with new parts to avoid the repetitive failure of compressor 620051990.

Table 1: Parts List

SI No.	Description	Old PN	New PN
1	Compressor	620051990	Unchanged
2	Drier	620047114	620059602
3	Suction Line HX with Capillary	620052155	620059543
4	Discharge Line	620051996	620059654
5	Suction Line Connector	620054869	620059721
6	Installation Instructions	NA	620059722INS



WARNING:

Read and understand these instructions thoroughly before proceeding with this conversion.

INSTRUCTIONS

1. Take the unit outside the building premises (Open Environment) and release the charge from system. Flush the system with Nitrogen before proceeding with any brazing.



WARNING:

The System Contains Flammable Refrigerant.

2. De-braze old configuration Suction line (620052155) and Discharge line (620051996), and remove the Compressor.

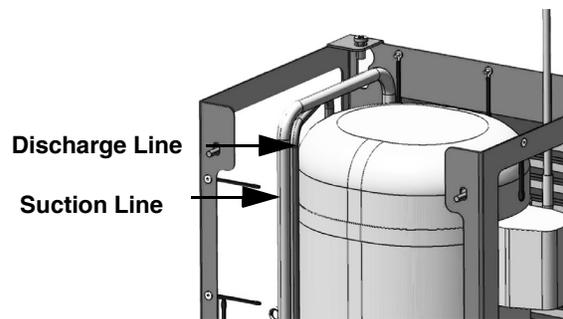


Figure 1.

3. Install the Compressor (620051990) which is supplied with the Kit (620059722).

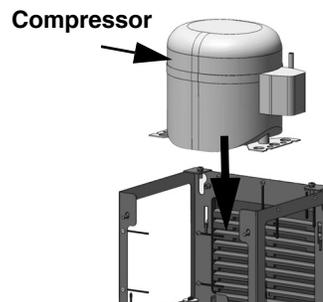


Figure 2.

4. Connect the New Discharge Line (620059654), from the Compressor discharge to the Condenser.

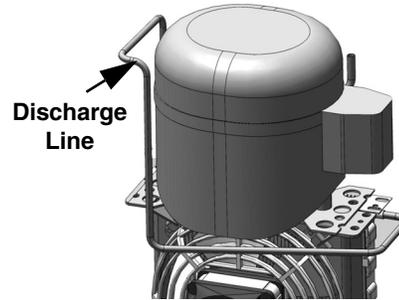


Figure 3.

5. Braze Suction Line connector (620059721) to suction port of Compressor.

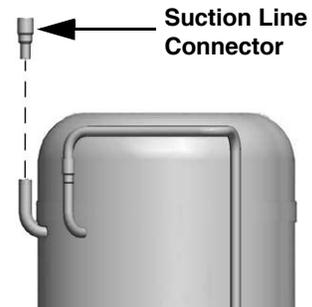


Figure 4.

6. Braze the Suction-capillary HX (620059543) to the Accumulator and the Compressor Suction port.



WARNING:

While brazing Suction Line HX please ensure suction line insulation is pulled-up to avoid burning.

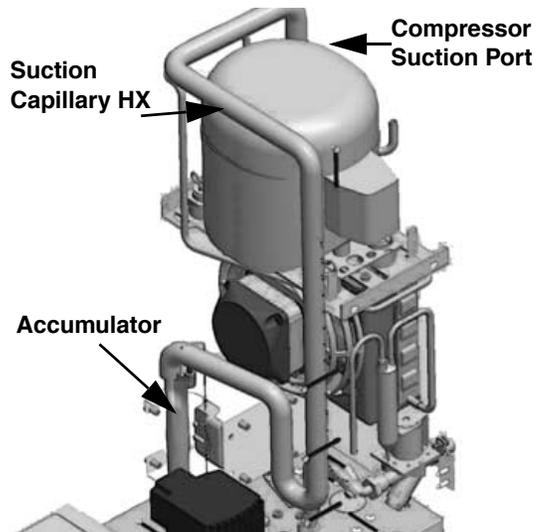


Figure 5.

7. Replace the Old Drier (620047114) with the New one (620059602) by following the procedure below :

- A. De-braze the Liquid Line & the Copper Tube and remove the Old Drier (620047114).

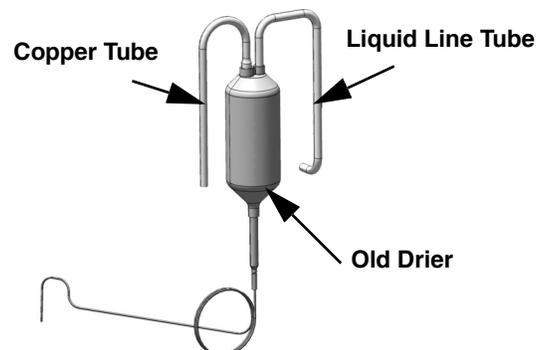


Figure 6.

B. Install the new Drier (620059602).

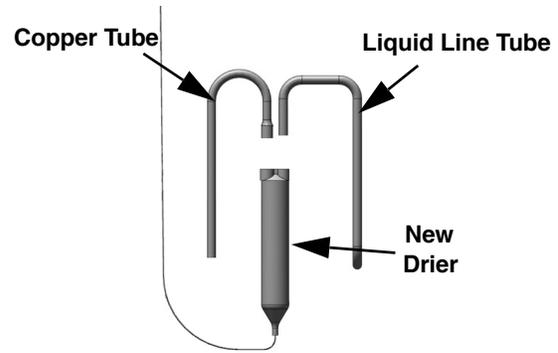


Figure 7.

C. Braze the Liquid Line Tube & the Copper Tube to the New Drier.

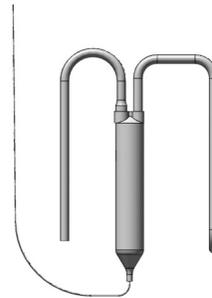


Figure 8.

8. Braze Capillary to Drier end and Evaporator end.

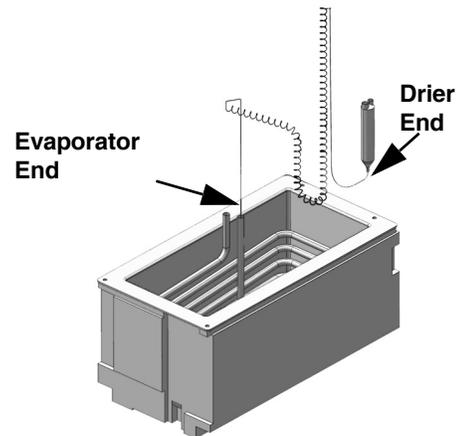


Figure 9.

9. Test for leaks.

! WARNING:

Before charging the system one should make sure that all the electrical sources have been removed from the equipment and the handling areas (atleast 5 meters all around the designated area).

! WARNING:

Ensure there are no open electrical sockets near the charging area as the refrigerant is highly flammable.

10. Evacuate the system and charge **62 grams** of R290 Refrigerant.