IMPORTANT

PLEASE READ FIRST

When changing a component on an R410A VRF condenser, several steps must be first carried out.

To ensure correct vacuum and to avoid non condensables from getting trapped in the system, several electronic expansion valves MUST be opened.

1. Power must be applied to the complete system, ie all indoor and outdoor units. System must not be run at this stage.
2. On the interface PCB of the outdoor unit, set dip switch SW12 Bit 1 to OFF, SW12 Bit 2 to OFF.
3. Short circuit CN30 with the tip of insulated screw driver or similar.
4. Set dip switch SW12 Bit 1 to OFF, SW12 Bit 2 to ON
5. Short circuit CN30 .

After approximately 30 seconds, both valves will have fully opened.

To keep the valves open, it is imperative that power is turned off to the condenser within 2 minutes.

IF POWER IS RESTORED, THE VALVES WILL CLOSE AGAIN.

1. Close the outdoor services valves, including the oil line if used.
2. Using a suitable tee piece, connect gauge lines to the 3 internal Schrader’s in the condenser and reclaim refrigerant from these 3 lines simultaneously.

It is a good practice to break the vacuum created with 5 PSI of nitrogen.

1. Replace the faulty component and pressure test on all 3 lines.
2. Evacuate the system using all 3 lines, until a vacuum of at least 4 torr is achieved.
3. Re- open service valves and with system running, slowly add the liquid refrigerant into the suction line.

Good on-site refrigeration practices should be carried out on all stages of the component change