IMPORTANT PLEASE READ FIRST

Moving or adding indoor units onto a R410A VRF

When moving or adding indoor units to a system and in order to correctly pressure test and vacuum the entire system, certain procedures must be carried out. If these procedures are not carried out, nitrogen and non condensables can be trapped inside parts of the pipe work.

1. Locate the mcb’s for the indoor circuit.
2. Apply power to the complete system ie indoor and outdoor but system not running.
3. Close off condenser service valves (including oil line if present) on all connected outdoor units.
4. On the outdoor master unit, set the yellow rotary dials to 2-3-1.
5. Push SW04 for 4 seconds.
6. Indoor valves will now open but for only 2 minutes.
7. Electrically isolate all indoor units within this 2-minute window (it would be prudent to have a colleague present, to assist).

Once power has been turned off, do not turn it back on until refrigerant has been charged back into the system.

1. Turn the power off to outdoor system.
2. Using a suitable tee piece, connect gauge lines to the 3 service ports (liquid, discharge, suction)
3. Recover refrigerant and perform indoor works.
4. Pressure test to 39 Bar using all 3 lines.
5. After pressure test is complete, put the system onto vacuum until a minimum of 4 Torr has been achieved.
6. Recharge the recovered refrigerant into the liquid line and slowly open all service valves. Any additional refrigerant can be slowly charged into the suction line when running.

Good on-site refrigeration practices should be carried out on all stages of the above works.