# Using a pressure gauge

**The manifold must be operated correctly to prevent moisture entering the refrigerant circuit and any loss of harmful gases to the environment in order to avoid the malfunctioning of the installation.**

It should only be carried out by a qualified electrician with a certificate of professional competency in category 1 refrigerants.

1. Make a vacuum suction draft and a pump down of the hoses
2. Delimit the intervention zone by setting up temporary mark-up
3. If the unit is located in a closed room, ensure it is properly ventilated before any intervention.
4. Proceed to dismantle the unit to access the valves
5. Prepare the HP valve for a pump down
6. Prepare the LP valve for pressure measurement. Install the fitting on the LP pressure tap of the unit.
7. Complete the vacuum process Set up the second element of the quick grip on the LP hose.
8. Check that the hose is tight. Close the manifold valves and connect the common hose to the vacuum pump and start.
9. Opening the LP valve => pressure drop up to -1 bar. Closing the LP valve and uncoupling from the pump => the pressure does not rise. The vacuum suction is complete.
10. Turn on the air conditioning. Connect the LP hose to the LP valve. The pressure indicated on the manifold increases. Once the measurement has been taken, pump down can be carried out in order to remove the device.
11. Close the HP valve. Remove the quick connector before it reaches 0 bar.
12. Reopen the HP valve gradually, remove the fitting and replace the plugs and cover.