Please find a wiring diagram attached showing the **18cc 12v SIGNAL** compressor.

Electrical connections
1. Large RED cable in orange conduit, firstly connects to the provided terminal block, then connects to Battery POSITIVE via a 100A fuse to the corresponding side of the terminal block.
2. Large BLACK cable in orange conduit, firstly connects to the provided terminal block, then connects Battery NEGATIVE or a good body NEGATIVE source to the corresponding side of the terminal block.

Always pay attention to polarity, reverse polarity will void warranty

Using a N/O relay connect the following (Relay not supplied)

3. Thin BLACK wire from the compressor connects to PIN 30 on the A/C speed mini relay
4. Output from pressure switch (Usually fitted to the drier) connects to PIN 85 on the A/C speed mini relay
5. PIN 86 will connect to a negative source.

Compressor speeds NEVER change when the compressor is running

6. Thin RED wire from the compressor when connected to PIN 87 gives you 2000rpm (Disconnect when changing speed and replace with ONE new coloured speed wire). For example either GREEN or YELLOW. **Draws approx 33A**
7. Thin GREEN wire from the compressor when connected to PIN 87 gives you 3500rpm (Disconnect when changing speed and replace with ONE new coloured speed wire). For example either RED or YELLOW. **Draws approx 48A**
8. Thin YELLOW wire from the compressor when connected to PIN 87 gives you 5000rpm (Disconnect when changing speed and replace with ONE new coloured speed wire). For example either GREEN or RED. **Draws approx 85A**

Always pay attention to polarity, reverse polarity will void warranty

The 18cc compressor will run at a constant speed once the desired speed has been chosen until the evaporator thermostat cycles it out as with any other mechanical compressor. The lower displacement reduces condenser head pressure and heat meaning the compressed gas will cool and condense quicker so the tx valve has a properly condensed liquid feed. Head pressure will be low at approx 110psi to 145psi depending on ambient temperature, low pressure will be around 30psi to 40psi, initial R134a refrigerant charge should start at 450grams and adjust if needed through the low pressure side.

Attached wiring guide needs to be connected exactly as shown from the A/C thermostat output on in the diagram, the A/C button and relay before the Thermostat is indicative only.

If wiring into an existing system use your old clutch wire circuit to connect to PIN 85 on the compressor control relay shown in the attached diagram.

BEWARE- Once connected it can take between 30 seconds to 1 minute to run through its systems check and start.

VERY IMPORTANT *COMPRESSOR HAS TO BE MOUNTED AS IN PHOTO WITH THE MOUNTING POINTS AT THE UNDERSIDE OF THE COMPRESSOR, THIS CAN NOT VARY OTHERWISE COMPRESSOR WILL SUSTAIN DAMAGE OR FAIL*