Diagnosing a fault with the Pump signal feedback board

If an AL17 alarm is presenting and you are sure you have established that there is sufficient flow through the appliance , then potentially there may be a fault with the Pump flow feedback board

Running the appliance in Test Mask to view the PWM pump readings may also help Identify the issue

Before the next steps check the connections to the pump signalfeedback board are pushed home.

To diagnose the board - First set SF10 in the engineer parameters to **EXTERNAL**

<u>Now with the main power isolator off</u>. Place a link wire between the D11 and GND terminals on the main carrel Control PCB in the appliance.
(You have now fooled the unit into thinking there is no internal PWM pump to monitor and an external pump is in its place)

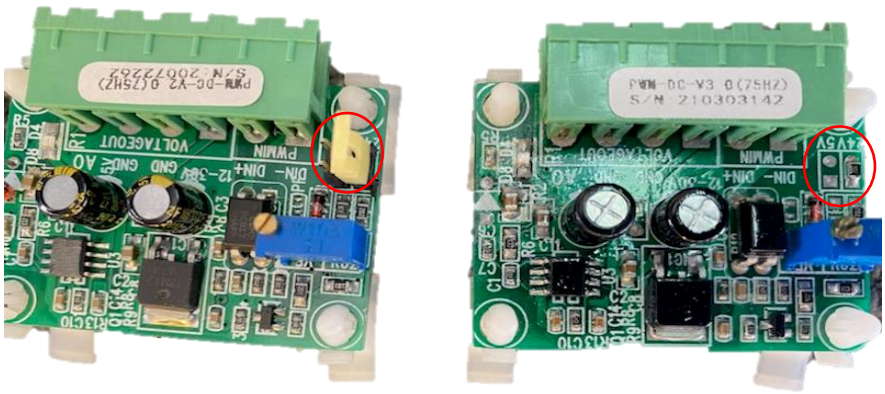
Turn on the power and allow the system to run
Monitor the inlet and outlet temperatures on the Carel control by using the up and down buttons

If the outlet is ramping up rapidly and the difference between outlet and inlet is widening there is most likely a blockage or Air in the system.

If the Outlet and inlet climb gradually and within a few minutes begint to roughly maintain a 5 degrees differential then this may indicate that the pump flow feedback board may well be faulty.

After around 10 minutes turn off the power supply remove the link wire and re set SF10 to **INTERNAL**

Now re engauge the HP if the pump comes on and AL17 is presented and the fan and Compressor do not activate then the pump signal feedback Board most likely is faulted and should be replaced.



There are two subtly different formats of the Pump flow feedback board one with and one without the yellow jumper tag circled They are interchangable