

## Static Fan Maintenance guide

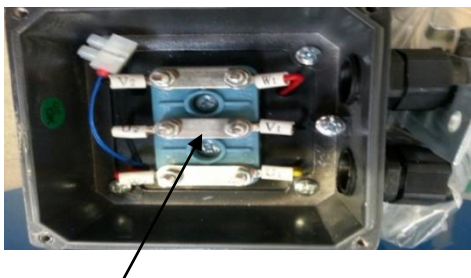
An important note is that if the fans & motor go unused for any length of time, we would recommend turning the impeller regularly (twice a month) so that bearings are not loaded on one particular point for any length of time.

If you have high humidity where the fans are located or they are exposed to the elements, it will be necessary to check if you have any condensation build up in the motor. You can achieve this by checking the resistance between each of the phases to see if they are within the expected tolerances, as detailed below:

- Isolate the electrical supply to the motor
- Open the terminal box of the motor
- Remove all the electrical connections coming into the motor
- Take note of how the terminal links are arranged
- Remove the terminal links for the terminals
- You will now need to test the resistance using a suitable multi meter between



- U1 & U2
- V1 & V2
- W1 & W2
- You should measure values between 0.1 & 2 Ohms, if you measure above 2 ohms you likely have a condensation build up in the motor & if the measurements differ more than 0.1ohms, you may have a problem with one of the motor phases & the motor should be returned to the motor manufacture for further testing.
- You can also test each of the 6 terminal pins to earth to check the integrity of the motor winding; each measurement should be in the high Mega ohm range.
- After you're satisfied that the motor has passed testing you will need to refit the terminal links you removed & refit the terminal box lid.



Terminal links