TROUBLESHOOTING VIVOFLOW WBP LEAKS

To isolate leaks in the vivoFlow WBP (VF), please perform the following steps and note down the results in this document. The results should be e-mailed to the appropriate support team, see **Contact Information** on final page.

Note: A manometer will be required to perform troubleshooting steps in this document i.e. to apply pressure to the VF chamber (Figure 1). To apply pressure to the VF chamber, the end tubing of the manometer should be fitted with a quick connect (Figure 2).

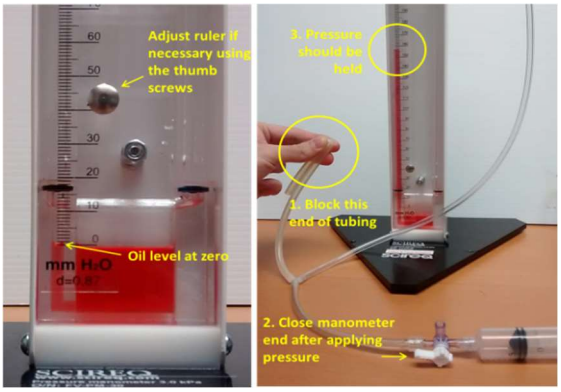

Figure 1: Manometer for leak troubleshooting

Figure 2: Quick connect ofr manometer to bias-flow vent port connection

1. Ensure that the manometer itself is functioning properly and is able to hold pressure. Make sure that the manometer oil is at the zero position, then block the end tubing of the manometer with your thumb and apply a pressure using the syringe. The manometer should be able to maintain this pressure (Figure 1)
2. Apply vacuum grease to all O-rings to create a seal. If any O-rings are visibly cracked, please replace them. If you do not have replacement O-rings, contact your local sales team

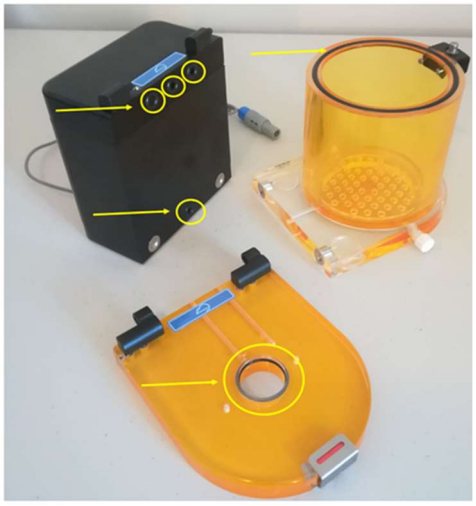

Figure 1: Location of O-rings on the VF

NOTE: Missing O-rings can cause large leaks in the set-up. It is important to confirm that that they are present at the appropriate locations on the chamber.

3. Ensure that the top cover is securely closed. To confirm that the chamber is closed, push down on the lid until a clicking sound is heard and then try to lift the lid again. The lid should resist being dislodged if sealed

   In addition, when the lid is securely closed, the large O-ring under the lid will appear as a thin black line. The 3 O-rings located on the electronics box will

form a black line when the top cover is properly closed

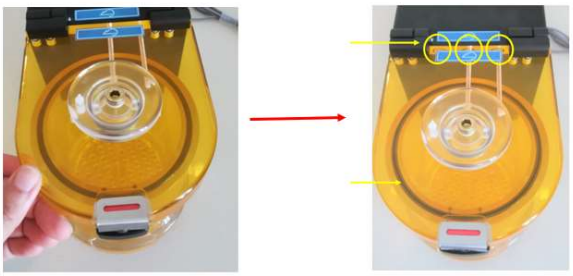

Figure 2: Push down on the lid to close it. The O-rings (indicated by yellow circles) located on the electronics box and the lid will be visible.

4. Ensure the small white connectors located on the bottom of the chamber are secured tightly and not cracked or damaged

Figure 3: White connectors

5. Place a piece of tape on the concentric pneumotachograph port to seal off the chamber from the atmosphere

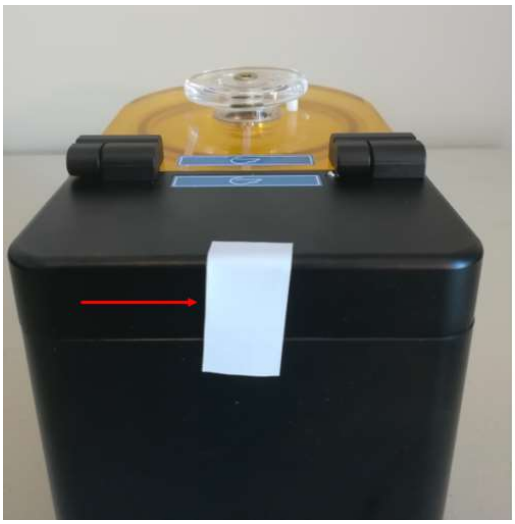

Figure 4: Tape to seal off the concentric pneumotachograph on the back of the VF

6. Using a manometer, apply a pressure of 30cmH_2O at the bias-flow vent port on the bottom rear of the unit and wait for 20 seconds. Write down the pressure after 20 seconds below

Figure 5: Apply pressure at the bias-flow vent port

Results from step 7: _____ cmH2O

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