

Novatech Controls

Model 1637 Trace Oxygen Analyser Accessories

Using the Activated Carbon Filter ACF-1

The activated carbon filter is used to remove hydrocarbons from a gas sample prior to measuring the oxygen content with a 1637 trace oxygen analyser. This filter can only be used for continuous applications, not for headspace measurements.

The filter assembly is fitted to the side of the analyser using a 1.25" Poly Coated Tool Clip attached with an M4 screw to the analyser. The gas inlet (1/8" tube) is at the top of the filter assembly and the outlet is connected to the inlet bulkhead fitting on the side of the analyser. See figure 1.



Figure 1

To change the activated carbon in the ACF-1 loosen the inlet cap's retaining grub screw with a 2mm Allen key (see figure 2).



Figure 2

Remove the cap and dispose of the spent carbon. Using a funnel, slowly pour the fresh activated carbon down the centre cavity of the ACF-1 (figure 3), fill to approximately half way up the stainless steel sintered filter (figure 4). The ACF-1 holds about 30 grams (a little under an ounce) of activated carbon.



Figure 3



Figure 4

Be careful not spill any of the activated carbon around the outside of the sintered filter, this could potentially be sucked into the analyser and cause a blockage in the sample line.