

PerfluorAd

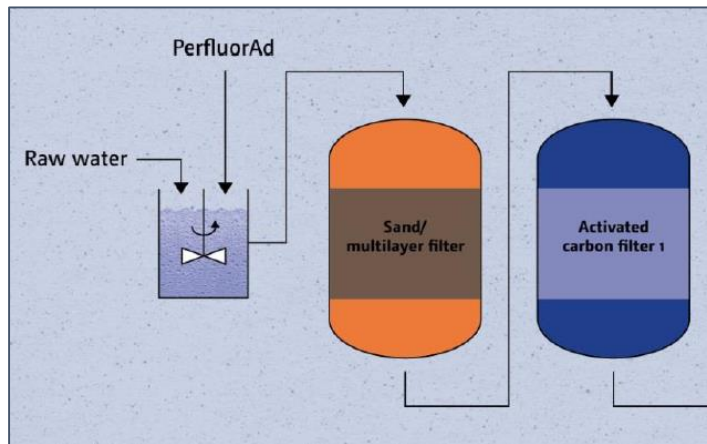
State of the Art PFC/PFAS Treatment Technology

Current Treatment Technology Limitations

To date, the majority of PFC/PFAS treatment projects have entailed the use of activated carbon. Unfortunately, with an adsorption capacity which is usually far less than 1%, the performance is severely limited leading to elevated costs for frequent carbon changes and high disposal quantities.

PerfluorAd Technology

PerfluorAd is an active liquid ingredient developed by Cornelsen. The solution is added to PFC/PFAS contaminated water at a rate which can be continually adjusted to suit the concentration and nature of the PFC/PFAS compounds present, as well as the desired treatment target. Micro floccs are generated which are removed by a combination of precipitation and particulate filtration.



PerfluorAd Performance

The effect of PerfluorAd is to remove the bulk of PFC/PFAS contaminants prior to an activated carbon polishing system without breakdown components and with the result that activated carbon life is significantly extended and disposal costs reduced.

The charts below show effluent concentrations for each of two activated carbon vessels in series both with PerfluorAd treatment (green line) and without (blue line).

Data shown below is derived from a real field application at a European airport. We have experience at a number of sites including a full scale installation at another major European airport.

