

The use of PerfluorAd® technology for treating water contaminated by PFCs in mobile systems

PFC contamination can arise in a variety of forms, as well as in different types of water. In addition to stationary systems for treating PFC contaminated fluid media, Cornelsen Umwelttechnologie GmbH employs mobile equipment and can provide this service on an ad hoc basis if necessary. PerfluorAd technology can be used efficiently in mobile equipment and without costly installation of plant such as in the case of extinguishing water remaining following fires, after performing tests on equipment or after fire drills, or as water arising in the course of pumping tests or well development.

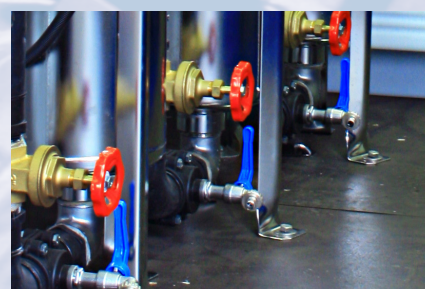


Mobile PerfluorAd system in container design

Mobile equipment and systems

Cornelsen Umwelttechnologie GmbH supplies collection containers for both water contaminated by PFCs, as well as for the treated water. Furthermore, mobile treatment systems for treating water are available in a container design that can be immediately mobilised and used at the point of origin of the water. With the mobile PerfluorAd systems from Cornelsen, transport of the water contaminated by PFCs to high temperature incineration systems is not necessary.

Metering within a PerfluorAd system (detail)





Mobile special adsorber for the final purification of water contaminated by PFCs ("police carbon filter function")

Complete service performed by Cornelsen

The implementation of the required system technology and the supervision of the temporary treatment process by experienced process engineers and service technicians is carried out by Cornelsen Umwelttechnologie GmbH.

Should the impending PFC burden and the water matrix not be sufficiently known, Cornelsen will coordinate the necessary analytical services and perform preliminary experiments at its own technical centre to determine the expected elimination rates in advance, as well as the resultant operating and disposal costs.

Compact system size thanks to the high efficiency of PerfluorAd technology

Typically, where water that is heavily contaminated with PFCs or water where the level of pollutants cannot be sufficiently assessed, large-volume filter systems are often arranged or else disposal in off-site incinerators is used as an ad hoc solution. Both versions can sometimes be very cost-intensive.

With **PerfluorAd**[®] technology, a high degree of elimination can be achieved with just minimal amounts of active compound. This has the advantage of making entire treatment plants available in very compact sizes. The use of high-volume active carbon filter units is therefore often unnecessary.