



HARBAUER

Alternating piping system for filtration plant

AdsorpAs removes arsenic from contaminated water

Unlike the more complex precipitation and flocculation methods or the rather expensive ion-exchange technique with its limited selectivity for pentavalent arsenic, Harbauer presents a new and intriguingly simple adsorption technique for the removal of arsenic from ground and drinking water. Its practical application resembles that of the conventional wet activated carbon technique. The configuration is easy to install as it consists only of an upstream gravel filter and two AdsorpAs-filled adsorption containers through which the water is passed continuously.

There is no need to man the system around the clock, as is the case with the precipitation and flocculation methods. And this is also where the new technique proves to be particularly superior to all other methods – it cuts considerably down on operating and personnel costs.

As the technique involves fixed-bed adsorption, resources are better utilized and the amount of solids residue at the end of the filtering period is small and needs no further dehydration. It can be dumped at any landfill site without prior treatment, because no arsenic elutes from the material.

Fields of AdsorpAs application

- removal of arsenic
- removal of phosphates



Gravel and arsenic filtration

Depending upon the concentration of the inlet water, the filter medium's adsorptive capacity allows the filter to be used for several months, thus

considerably reducing discharge cost.

As this technique features a high degree of security and the prescribed output limits

are observed at all times, Harbauer is capable of offering system availability in excess of 99 percent.

Ideas for a clean environment

**Groundwater and Lake Decontamination • Drinking Water and Process Water Treatment • Air Purification
Water Worldwide • Treatment of Mineral Waste**



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