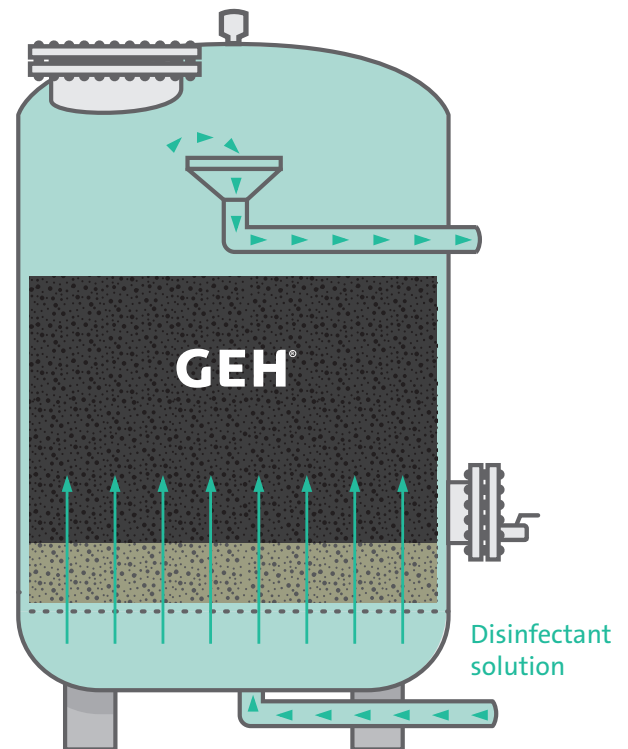




GEH[®] Recommendations for the Disinfection of Adsorbers

■ Disinfection process

- ✓ We recommend using sodium hypochlorite or hydrogen peroxide as disinfectant agent for GEH[®] adsorber beds.
- ✓ The whole GEH[®] quantity and all related plant components have to be in contact with the disinfecting agent for at least two hours, e.g. by
 - Continuous dosage of disinfecting agent with the GEH[®] during filling procedure
 - Circulation of disinfection solution through the adsorber bed
- ✓ After disinfection, backwash adsorber bed (in the same manner as the installation backwash, see Technical Datasheet “Adsorber Units”)
- ✓ Confirm successful disinfection by checking microbial parameters, i.e. conformance of treated water to applicable drinking water specification
- ✓ An additional disinfection is recommended when the adsorber is not operated for more than a week



■ Following conditions have been proven effective in practice

Disinfecting agent	Sodium hypochlorite, NaClO (12 % Cl ^o)	Hydrogen peroxide, H ₂ O ₂ (30 – 50 %)
Dosage	ca. 120 g Cl ^o / m ³ GEH [®]	ca. 2000 g H ₂ O ₂ / m ³ GEH [®]
Concentration target inside the adsorber	5 – 20 mg / L Cl ^o	1 – 2 g / L H ₂ O ₂

- ⚠ Hydrogen peroxide decomposes and evolves gas upon contact with GEH[®].
- ⚠ Vent adsorber unit accordingly to permit gas release (e.g. open top manhole).

Important information

- ⚠ All work described is to be done by qualified technical personnel only and in accordance with all applicable safety regulations
- ⚠ Every application in water treatment is unique. The application at hand must be studied in detail including all peripheral factors before the operating conditions of the GEH® system can be determined. Accordingly, the recommendations given above are general in nature and not legally binding.
- ⚠ We will gladly provide applications advice regarding dimensioning and operation of your specific GEH® adsorber unit.
- ⚠ Please observe all instructions and information given in our product data sheets and safety data sheets.