
Drinking Water Tank Cleaning: Process Description

▪ Requirement

- Short information sheet about initial situation
- 2 Employees with fully packed cleaning vehicle
- Water connection and power outlet available in the front room of the container

▪ Requirement

Adherence to the safety regulations (accident prevention regulations and work safety regulations: wearing of protective clothing, only one employee at a time in the container)

- Adherence to the DVGW information sheet W 291, W 318 and W 319
- Adherence to all hygienic regulations

▪ Cleaning

- **Set up of the devices:**
 - All necessary devices and materials should first be carried from the vehicle into the front room of the drinking water container.
 - Connection of the water hose with interposition of a pressure increasing pump, if necessary. Target should be water pressure of at least 4.0 – 4.5 bar.
 - Connect compressor (adjusting right turn button: 3.5 bar; large left pressure control: 6-8 bar automatically) and low pressure pump with air pressure hose.
 - Turn low pressure pump all the way to minus.
 - Estimate cleaner consumption; with a minimum consumption of a 30-kg-container pour ALBILEX-3000 into these 1-2 litre bottles (depending on the iron and manganese contamination) ALBILEX-3000-A and mix. Leave cleaner in the 30-kg-container for concentrated application, or dilute accordingly with water in a mixing basin. (For lower cleaner consumption mix according need in mixing basin.)
 - Connect suction hose from the low pressure pump to ,IN'- jack, and insert the other end of the hose into the cleaner jug, respectively mixing basin.
 - Roll out extension cord.
 - Connect extension cord to ,OUT'- jack of the low pressure pump.
 - Connect extension cord to spray lance (6m length). Spray lance has a turncock at the upper end which should be closed at first.
 - Place foot basin in front of the container, and pour 1 litre ALBILEX-3000-A into it.
- **Put on protective clothing** (suit, rubber boots, safety mask, gloves, if necessary).

ALBILEX GmbH & CO. KG

-
- *Cleaning personnel must always pass through foot basin in order to enter the container.*
 - **Pull the water hose into the container, and carefully rinse walls, ceiling, and floor with opened valve.** To finish, quickly moisten all walls with water (important, as walls must be moist before applying cleaning agent!). Leave the water hose in the container. *(An employee can already take over this step during set up of devices in the front room.)*
 - **Have the valve closed from an employee of the water works.**
 - **Carry spray lance into the container.**
 - **Start the compressor -> Turn the knob of the low pressure spray pump 1-1,5 turns towards ,+' (if necessary readjust depending on spray performance of the valve).**
 - **Applying of cleaning agent on all walls (walls, ceiling, floor)**
 - **If necessary mechanic cleaning with a telescope brush rod can be done in the flush zone and on other walls immediately following, depending on the size of the container.**
 - If necessary, anew application of cleaning agent onto especially contaminated places.
 - **Careful rinsing of container walls.**
 - **In the meantime:** Place the suction hose of the low pressure pump into a bucket of clean water, and open the valve of the spray lance; wait until all water is pumped out of the hose system.
 - **Measurement of the pH value of the cleaning liquid pool;** if necessary, bring to pH value 6-7 with the help of ALBILEX-neutralizer and with help of the neutralization index.
 - **Have the valve closed from an employee of the water works.**
 - **After complete emptying of the cleaning liquid pool, rinse the floor carefully again.**
 - **Carry all devices & materials out of the container into the front room, disassemble them, and load the vehicle.**
 - **After completed cleaning**
 - Inform employees of the water works of the completion of the cleaning
 - **Have the inlet vale opened with the outlet valve open, and let water run through the container for 5-10 minutes** (Attention: very important, as germs often are found in the still water of the inlet hose!)
 - Subsequently have the outlet valve closed and container filled to 1/3
 - Attach ALBILEX-sticker stating the date of cleaning onto the wall in the front room.
 - Have the delivery paper stating the performed cleaning of the container signed by an employee of the water works.
 - Extraction of sample should take place at the latest 24 hours after completion of the cleaning.
 - Authorize complete filling of the water chambers and release to network after negative statement of the water sample.