

## Application of silvertex® for house water supply



<b>silvertex® HD 57 – 125 Home</b>	
<b>Description</b>	Water preservation <sup>1</sup> with silvertex® by installation in water tanks and cisterns with self-sufficient water supply over a longer period of time or direct water feed into the tanks from the water network in single-family, multi-family houses and public facilities.
<b>Problem</b>	<p>Self-sufficient water supply or additional temporary storage is used wherever the public water network is not extensively developed or when the water pressure provided by the water companies is insufficient to supply households on higher floors with water.</p> <p>As the moist surroundings of these tanks are an optimal breeding ground for germs, mold and bacteria quickly multiply inside and form biofilms. Those germs, released into the air (e.g. by the shower) or digested can cause discomforts such as diarrhea or pneumonia. In order to keep the water germ-free, it has to be disinfected by a with a high energy and chemical expense.</p>
<b>Solution</b>	Use of silvertex® solution HD - 125 Home inside of tank and cistern. The self-dosing system provides an active preservation of the water inside of the tank and protection against biofilm formation through silver-ions.
<b>Business</b>	Equipping of new tanks and retrofitting of existent tanks
<b>Simple, smart, silvertex® - Advantages</b>	<ul style="list-style-type: none"> <li>• Long term Hygienic safety up to 1 year</li> <li>• user-friendly</li> <li>• simple to use</li> <li>• self-dosing</li> <li>• light weight</li> <li>• energy and resource efficient</li> <li>• chemical additives replacing method</li> <li>• no forming of toxic by-products</li> </ul>

<sup>1</sup> Type of water to be treated: Drinking water according to drinking water regulations

## Dimension and Installation

Silvertex® HD 57-125 Home	
<b>Dimension</b>	25 cm x 50 cm = 0,125 m <sup>2</sup>
<b>Duration of use</b>	Up to 1 year
<b>Installation</b>	Mounted inside of tanks and cisterns



Water consumption L/d	Pieces of HD 57-125 Home
200	1
500	2
1.000	4



Water consumption L/d	Pieces of HD 57-125 Home
200	2
500	3
1.000	6
2.000	11
5.000	25

**References with silvertex® HD 57:**

Silvertex has been successfully tested in water tanks like the example below:

Location of cache: Italy; Drinking water storage on a mountain; very difficult to access, partly only on foot feasible



1: Cistern with silvertex in Erba, Italy



2: silvertex® Installation

Type of system: Drinking water storage (cistern as storage for public water supply)

Type of water: Spring water, which runs continuously from the mountains / source

Cache-Capacity

(Filling Volume): 700 m<sup>3</sup>

Water consumption: 85.000 l/day (the water is distributed via built-in pipes in the surrounding houses)

Problem: Microbial contamination of E. Coli, Coliforms, Enterococcus, Clostridia. The difficult accessibility of the water reservoir required a low-maintenance and effective method of conserving the water

Disinfection method

before silvertex®: Chlorine dioxide

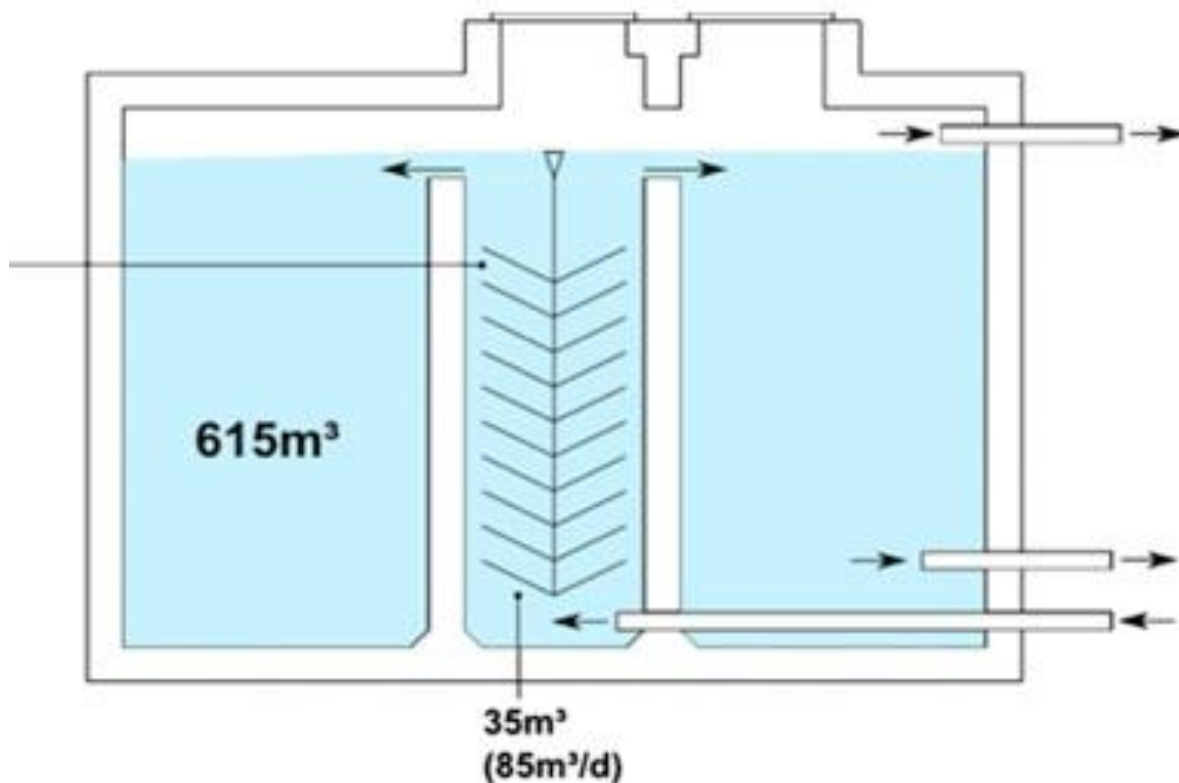
solution

and current  
situation with  
silvertex®:

Installation of silvertex® in the storage tank (cistern) with the aim of preventing biofilm formation and the growth of microorganisms in the water. With the installation of silvertex® the chlorine dioxide dosage was adjusted. Since then, a total of approx. 20,000 m<sup>3</sup> of drinking water with an average content of <10 µg Ag / L of officially controlled microbial quality (average test results: <1 cfu / 100 ml) has been provided while maintenance-free operation. The drinking water quality complies with official regulations. The use of the silvertex® system for drinking water preservation as environmentally friendly and resource-saving alternative to chemical or thermal disinfection methods and is recommended by the competent regional authorities (Health, environment).

silvertex® quantity  
used:

25 m<sup>2</sup> HD 57



3: technical sketch of silvertex®-installation in a cistern