



Application: Disinfection of hot water (55°C) for heating system in order to prevent Legionella contamination. After anolyte dosing ORP ~ 550 mV is maintained as indication of water purity and decontamination.

Location of the installation: Libo housing project (www.libo.se), Sweden



Housing complex constructed with full consideration of ecological impact. It's a zero energy housing project using solar power and high insulation and controlled venting. During cold periods they use wood pellets burner as a back up.

Population of the housing complex: 4 blocks with 4 apartments each, total 16 apartments.

Hot water consumption: ~ 1,3 m³/day.

Type of the Envirolyte equipment: ELA - 400.



Envirolyte ELA-400



Pumping station



Envirolyte ELA-400



Envirolyte ELA-400

Previously use technology: None, newly built complex.

The reasons for choosing Environment technology: The housing complex was built with full consideration of ecological impact and therefore the builder selected the technology he considered as the most ecology-friendly.



Brine tank



Polyphosphate and 10 microns filters

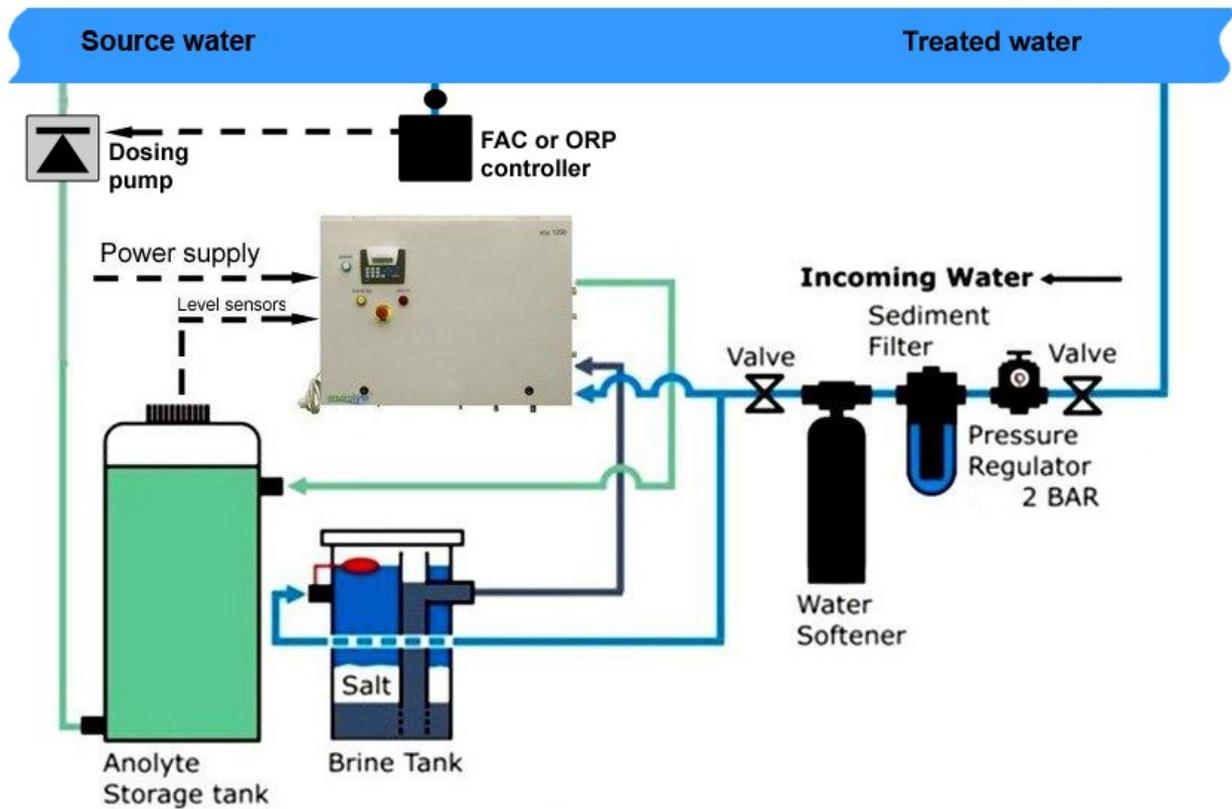


Redox cell and injection point



Redox control unit

Below can be seen a schematic of the systems layout



The reported benefits of using Environment water disinfecting technology :

Safety

- no danger of chlorine gas explosion and hazards associated with transportation of any other chlorine based disinfectant;
- no need to mix or dilute hazardous chemicals;
- environmental friendly solution;

Efficiency

- elimination of biofilms and inactivation of pathogenic microorganisms including Legionella species, and nil bacteria counts;
- creates a longer-lasting residual than traditional chlorination, often at a lower dosage
- right dosage, no more no less – corrosion is reduced;
- significant reduction of Trihalomethane and other DBP;

Cost reducing

- Envirolyte system is fully automatic and only requires a minimal operator attention;
- no need for transport, handling or storage of chlorine gas or hypochlorite;
- on site installation in close proximity of urban population;