



Application: Disinfection of municipal drinking water.

Location of the installation: Hashtgerd City, Alborz province, Iran.



Hashtgerd City

City population: 50 000 people.

Drinking water consumption: ~ 13 000 m³/day.

Type of the Envirolyte equipment: ELA - 20 000ANW.



Envirolyte ELA-20 000ANW

Previously use technology: Chlorine gas.

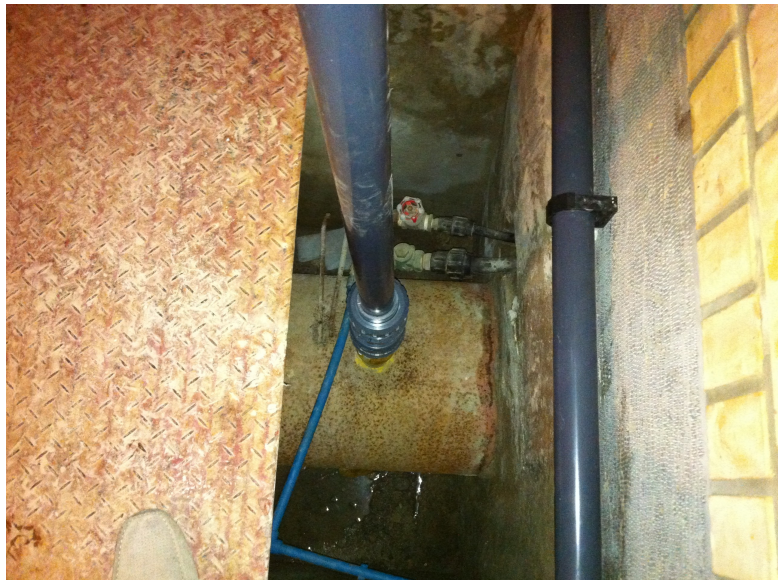
The reasons for switching to new technology: Hazards of using this method and change of Government polices if favor of cost efficient, ecology friendly and efficient technologies.



FAC controller

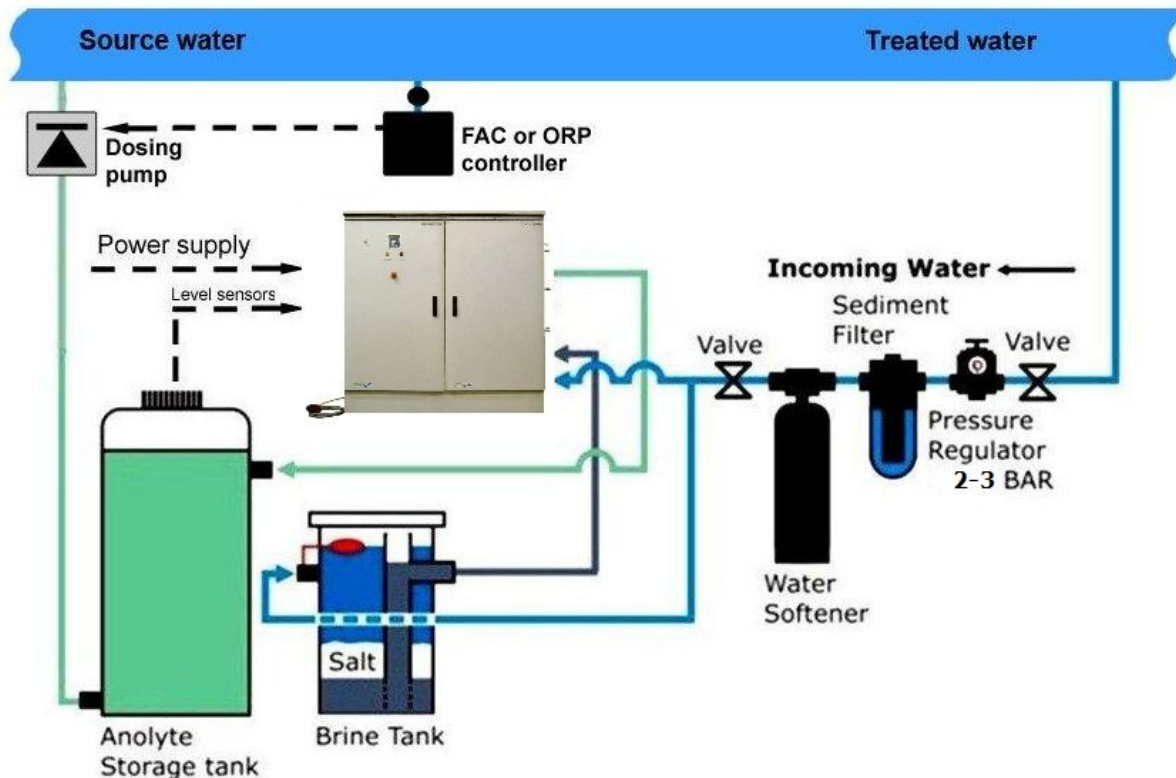


Analyte injection pump



Analyte injection point

Below can be seen a schematic of the systems layout



The reported benefits of using Envirolte water disinfecting technology :

Safety

- no danger of chlorine gas explosion and hazards associated with transportation of the cylinders
- no need to mix or dilute hazardous chemicals
 - environmental friendly solution

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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

- Envirolte 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