



Application: Disinfection of municipal drinking water.

Location of the installation: Zahedan city in Sistan and Baluchestan Province, Iran



Zahedan City

City population: ~200 000 people.

Drinking water consumption: ~ 30 240 m³/day.

Type of the Envirolyte equipment: 3 x ELA - 10 000ANW.



Envirolyte ELA-10 000ANW

Previously use technology: Chlorine gas.

The reasons for switching to new technology: Hazards of using this method and change of Government policies if favor of cost efficient, ecology friendly and efficient technologies. Close proximity of the water purification site to residential areas



Source water pre filtration



Anolyte injection pumps

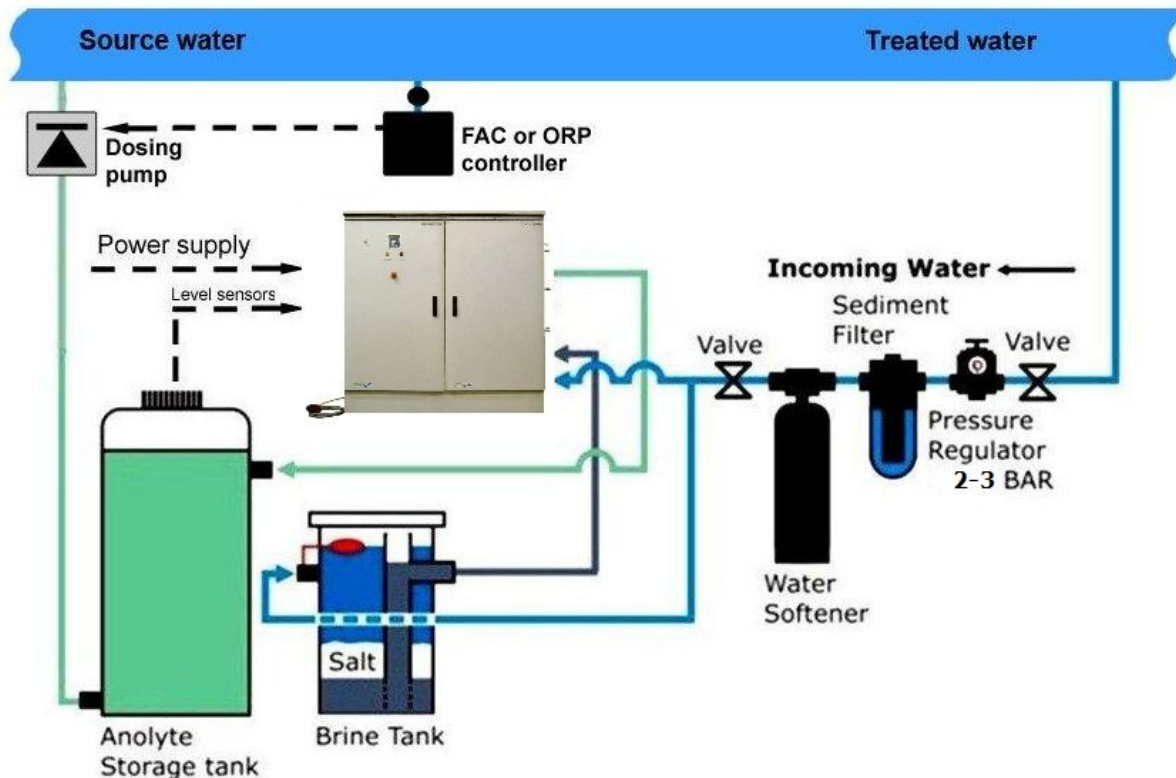


Anolyte tank and water softeners



Installation site

Below can be seen a schematic of the systems layout



The reported benefits of using Envirolyte 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

- 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