



Application: Disinfection of municipal drinking water.

Location of the installation: Semnan City, Semnan Province, Iran



City population: 153 680 people.

Drinking water consumption: ~ 21 600 m³/day (250 LPS).

Type of the Envirolyte equipment: 5 x ELA - 3 000ANW.

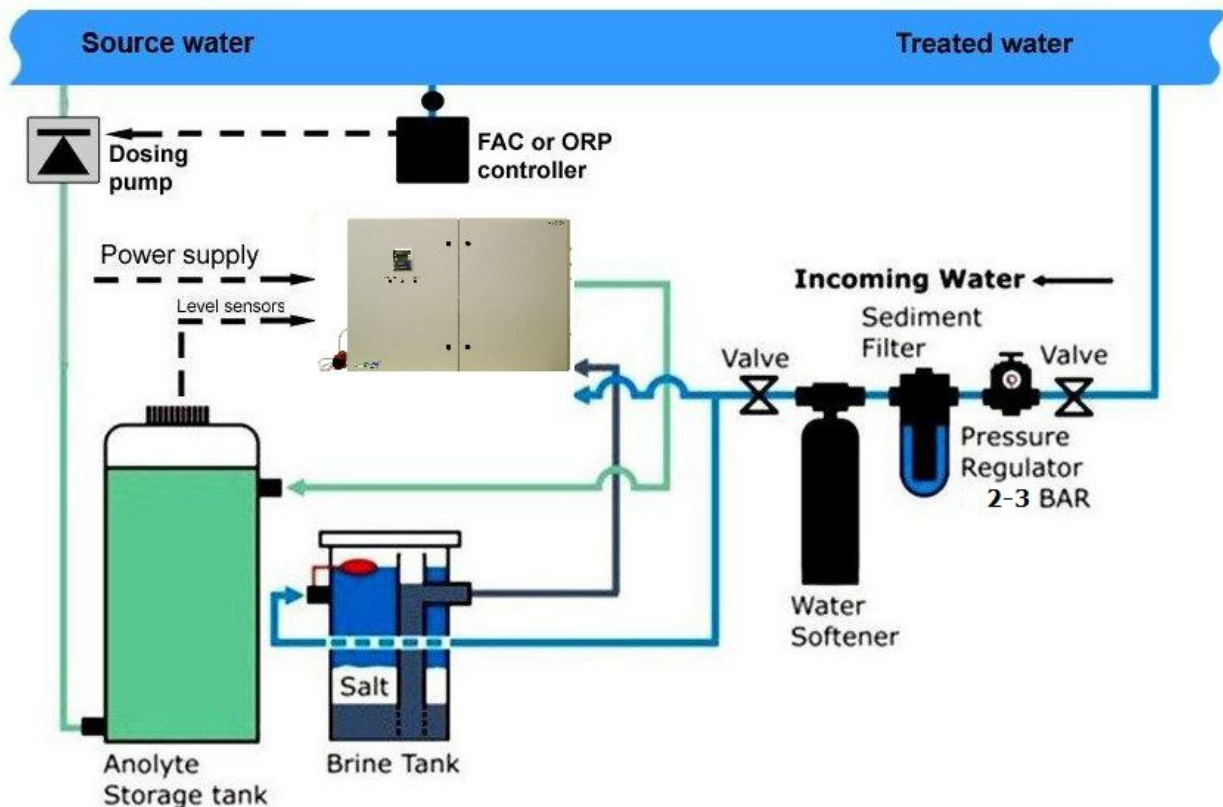


Envirolyte ELA-3 000ANW

Previously use technology: Chlorine gas

The reasons for switching to new technology: Chlorine gas explosion danger because of being near to the people's habitat, hazards of using this method and change of Government policies in favor of cost efficient, ecology friendly and efficient technologies.

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;

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;

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