



Application: Disinfection of municipal drinking water.

Location of the installation: Voronez City, Russia. “Voronez utility company”, booster pumping station to provide drinking water for 1/3 of the city population.



City population: ~ 890 000 people.

Drinking water consumption: ~ 466 000 m³/day .

Source water: well water.

Daily FAC requirement: 230 kg.

Type of the Envirolyte equipment: 8 x ELA - 24 000ANW. Six machines – operational and two - as a redundancy/stand by capacity.

Previously use technology: Chlorine gas.

The reasons for switching to new technology: Multiple hazards associated with the use of chlorine gas and change of the local government polices if favor of cost efficient, ecology friendly and efficient technologies.



Voronez city



Envirolyte ELA-24 000ANW machines

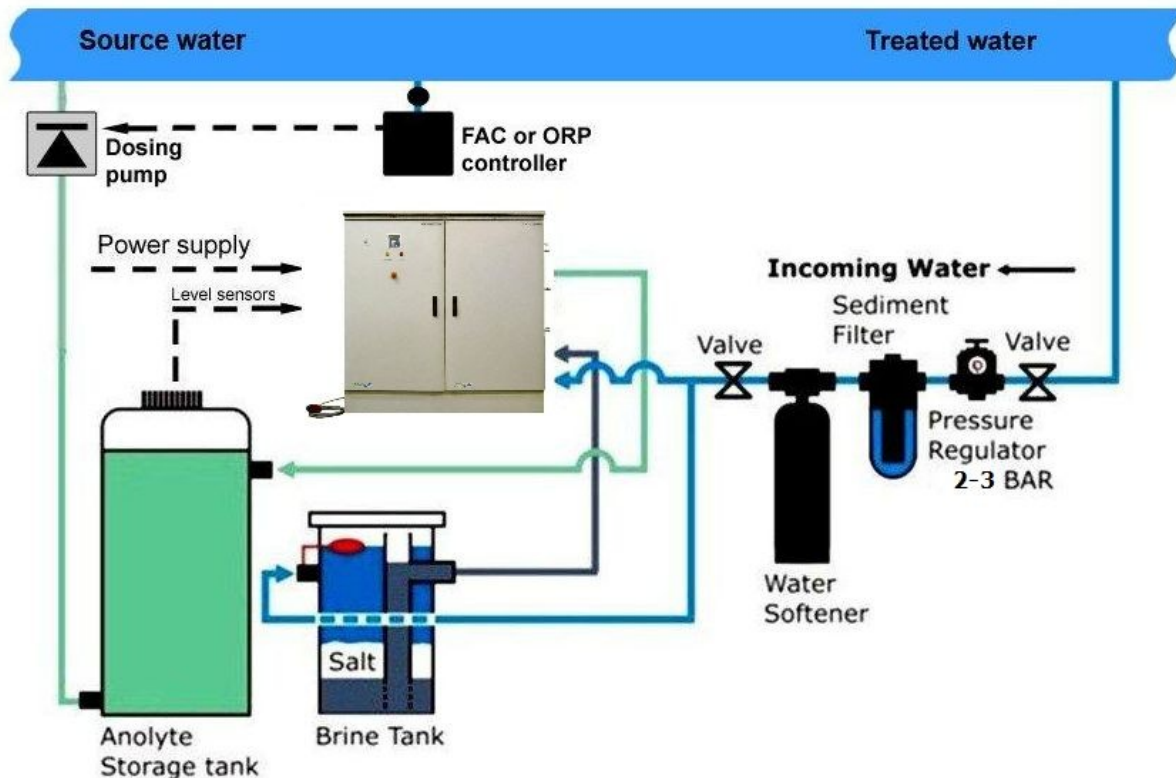


Brine tanks



Booster station/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;

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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