

ClorTec™ Split Flow Cell Design

Patented Method and System for Generating Hypochlorite

On-site generation is a proven, cost-effective, reliable and safe alternative treatment to chlorine gas and bulk sodium hypochlorite disinfection. The use of sodium hypochlorite reduces the formation of disinfection byproducts and improves water quality.

The ClorTec™ technology has significantly advanced on-site hypochlorite generation technology with the introduction of the split-flow design and process; as well as an enhanced proprietary electrode coating that provides greater efficiency.

As regulations governing chlorate/chlorite become a matter of concern, the ability to actively manage disinfection byproduct concentration to less than 2% of the total disinfection production will prove to be a tremendous benefit to users.

The patented ClorTec Split Flow (Patent No. US 6,805,787) arrangement provides 33% higher hypochlorite production with lower energy and salt usage.

In summary, the patented split flow cell, with enhanced electrode coating:

- Reduced salt consumption from 3.5 pounds (1.6 kg) to 3 pounds (1.4 kg) per pound of chlorine – operational cost reduction of 14% in salt consumption
- Reduced energy consumption from 2.5 kWh per pound to 2.0 kWh per pound of chlorine – operational cost reduction of 20% in power

The operating cost reductions over the life of the equipment can amount to hundreds of thousands of dollars.

The ClorTec on-site sodium hypochlorite generating systems which range in capacity from 6 to 3,000+ lb/day (2.7 to 1,360+ kg/day) of chlorine equivalent and generate a 0.8% sodium hypochlorite disinfection solution using three common consumables: salt, water and electricity. To meet varying application specific conditions, the ClorTec systems are available as component-based or skid-based systems. ClorTec units are NSF Standard 61 and 50 approved, and have ETV verification.



A split flow cell design delivers 20% reduction in consumable operating cost!