

## Klorigen<sup>TM</sup> M-Series

# On-Site Electrochemical Sodium Hypochlorite Systems

The **Klorigen™** M-Series Sodium Hypochlorite Generator is a smaller scale electrochemical system specifically intended for on-site remote applications and designed for safe and cost effective production of high purity, commercial-strength sodium hypochlorite solution using food grade salt. These systems can be configured to produce bleach at concentrations from 5 to 12.5-trade%. System generating capacities range from 40 to 200 gal per day as 12.5% (125 gm/L) NaOCI. One gal of 12.5% bleach is equivalent to one lb of chlorine gas.

The Klorigen™ M-Series systems eliminate hazards typically associated with the use of pressurized chlorine gas and bulk deliveries of commercial sodium hypochlorite. The M-Series units are ideal for industries and municipalities that are currently using or need a form of chlorine for disinfection, sterilization or bleaching.

#### **Features & Benefits:**

- Replaces pressurized chlorine gas to eliminate the potential for toxic gas release
- Membrane-grade sodium hydroxide is produced as a co-product
- On-demand bleach Scalable from 10% to 100% of capacity
- Sodium hypochlorite system product range 5% to 15 trade% as NaOCI
- Single-pass brine feed system using food-grade salt for maximum efficiency
- Touch screen PLC control system
- PLC compatible with SCADA systems for remote monitoring & control
- System utilizes NSF certified components
- Hydrogen safely diluted below LEL
- Multi-year warranty and maintenance contracts available

#### **General System Performance:**

Power Consumption:
Less than 2.5 DC KWh per lb equiv Cl<sub>2</sub>
Salt Consumption:
Less than 2.5 lbs NaCl per lb equiv Cl<sub>2</sub>

• Electrochemical Efficiency: 70% to 85%

Sodium Hypochlorite: 5 to 15 trade% (user option)

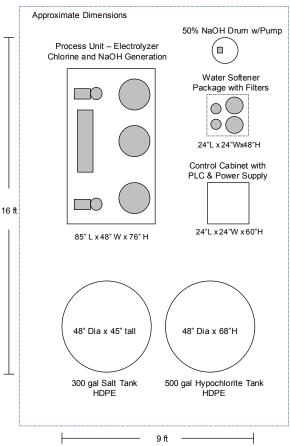
#### **Utility Requirements:**

- 208 VAC or 460 VAC, 3 phase, power (depending on unit output capacity)
- Potable water supply for salt dissolving, caustic dilution and bleach dilution
- Cooling water: 5 15 gpm depending on capacity of unit

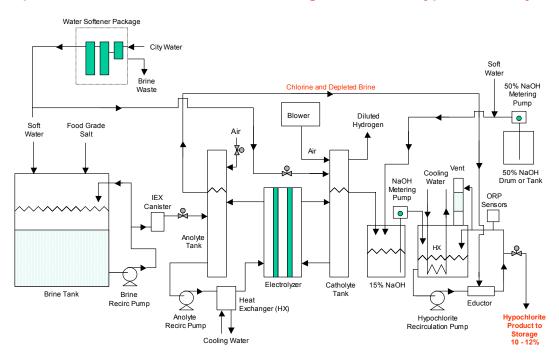
### Klorigen™ M-Series 40-200 gal/day Hypochlorite System

#### Klorigen M-Series 200 gal/day Hypochlorite System Typical Layout





#### Simplified Process Flowsheet of the Klorigen M-Series Hypochlorite System



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