



HARBOR™ On-Site Chlorine Generators

HARBOR™ chlorine generators are electrolytic systems that use salt, electricity (AC) and water to produce a liquid chlorine-and-peroxide mixed-oxidant disinfectant solution. This solution maintains its strength for two to three weeks without stabilization.

HARBOR™ systems are fully automated and equipped with a twin tower ion exchange water softener to eliminate carbonate scale build-up and reduce maintenance. The systems also include a brine generator and vent fittings for the chlorine tank (sourced locally).



The HARBOR™ series can be configured to produce either 7, 11 or 22 kg (15, 24, or 48 lbs.) of free available chlorine (FAC) per day, ideal for large water utilities, industry, hospitals, and cooling towers, where chlorine-based mixed oxidants are used to eliminate biofilm and kill Legionella bacteria. Our 'flow-through' technology ensures a consistent 5,000 mg/L level of concentration (+/-1,000 mg/l) FAC that is safe, ready-to-use and effective at killing 99.9999% of bacteria and 99.99% of viruses.

Stainless steel passivated enclosures will operate in any industrial environment. The power supply and system controls are housed in an upper enclosure, and fluid management and electrolysis operate in the lower cabinet. A cooling system is incorporated in the control enclosure. An optional heater will automatically maintain feed water temperature above 10°C (50°F). Siemens PLC controls include a color touch screen, ethernet monitoring, data acquisition and remote alarms and diagnostics. The brine generator and oxidant tank are sized to meet customer requirements. The system will require a mode of oxidant injection (optional) to meet the dosing requirements of the water.

	HARBOR™ Series
Capacity	7, 11 or 22 kg/day FAC (15, 24, 48 PPD)
Power	208 VAC, 1 ph, 50/60 hz, 30A/50A
FAC Concentration	4,500 mg/L (± 500 mg/L)
Flow Rate of Chlorine	65, 102, 204 LPH (17, 27, 54 GPH)
Feed Water Temp	>10°C < 30°C (>50°F < 86°F)
Feed Water Pressure	3 bar minimum (40 psi)
Dimensions	0.7m x 1.8m x 0.25m (2.3' x 5.25' x .82')
Weight	130 kg (280 lbs.)

The HARBOR-22 produces 204 liters (54 gals) per hour, or 22 kgs (48 lbs.) of chlorine per day, which will:

- treat 9M liters (2.3M gals) of water per day, at a 2.5 PPM dose;
- or, supply 4,900 L (1,294 gals) of chlorine per day – 'ready-to-use,' no dilution or mixing required.

