

# LAKE-AR™ On-Site Chlorine Generators



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

LAKE-AR™ 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 LAKE-AR™ series can be configured to produce either 3 or 5 kg (6.6 or 11 lbs.) of free available chlorine (FAC) per day, ideal for small- to medium-sized water utilities, industrial sites, 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) of FAC that is safe, ready-to-use and effective at killing 99.9999% of bacteria and 99.99% of viruses.

The stainless steel passivated control enclosure and PVC plumbing panel will operate in any industrial environment. The power supply and system controls are housed in the control enclosure, and fluid management and electrolysis operate on the lower panel. A cooling system is incorporated in the control cabinet. Controls include an IDEC controller and color touch panel, ethernet monitoring, data acquisition, and remote alarms and diagnostics.



	LAKE™ AR3	LAKE™ AR5
<b>Capacity (FAC)</b>	3 kg/day (6.6 PPD)	5 kg/day (11 PPD)
<b>Power</b>	208 VAC, 1 ph, 50/60 hz, 30A	
<b>Concentration</b>	5,000 mg/L (± 1,000 mg/L) FAC	
<b>Flow Rate</b>	25 LPH (6.6 GPH)	42 LPH (11 GPH)
<b>Feed Water Temp</b>	>10°C < 30°C (>50°F < 86°F)	
<b>Feed Water Pressure</b>	3 bar minimum (40 psi)	
<b>Dimensions</b>	0.7m x 1.6m x 0.25m (2.3' x 5.25' x .82')	
<b>Weight</b>	30 kg (66 lbs.)	

The LAKE AR5 produces 42 liters per hour (11 gph), or 5 kgs (11 lbs.) of chlorine per day, which will:

- treat 2,000 m<sup>3</sup>/day (528K gals) of water at a 2.5 mg/L dose;
- or, supply 1,000 L (264 gals) of chlorine per day – ‘ready-to-use,’ no dilution or mixing required.

