



## RIO Grande™ Specifications

Designed for large capacity disinfection needs, the RIO Grande is the superior alternative to generating large volumes of disinfection chemistry at minimal cost. The RIO Grande™ on-site generator offers large capacity treatment of water, wastewater, and industrial treatment applications for flows of 50 MGD (200,000m<sup>3</sup>) and higher. Superior cell design offers better salt and power efficiencies, reduced maintenance, and maximum flexibility. The electrolytic cell, power supply, and system controls are fully enclosed in a metal frame and the unit operates with Allen Bradley MicroLogix controls. Switching from a sodium hypochlorite (HYPO) generator to a Mixed Oxidant Solution (MOS) on-site chemical generator is accomplished by simply changing out the cells - offering the user the ability to optimize water chemistry at a minimal cost.

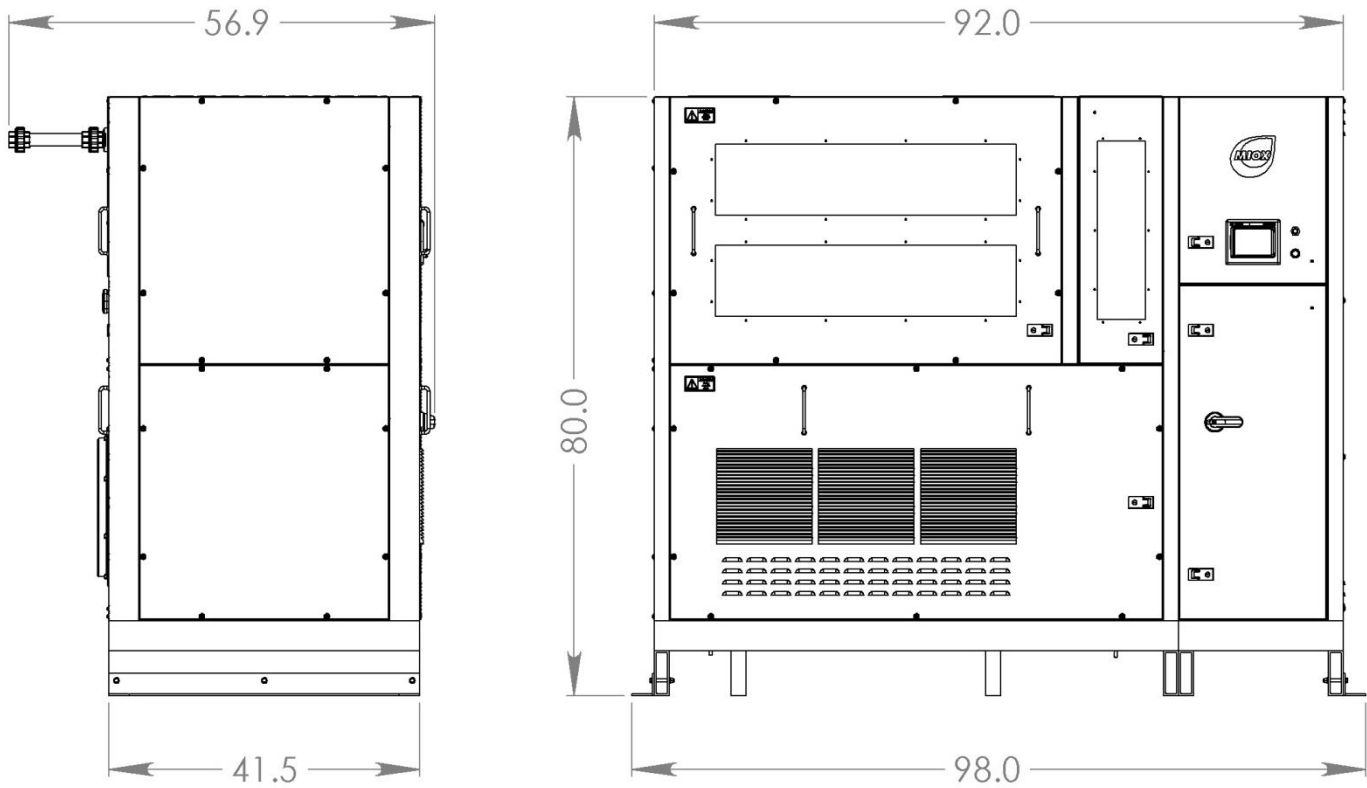
	Mixed Oxidant	Hypochlorite
Rated FAC Capacity	1,000 lbs/day 453.6 kg/day	1,550 lbs/day 703 kg/day
Water Treatment Capacity (at 1 ppm FAC)	120 MGD 454,250 m <sup>3</sup> /day	186 MGD 700,000 m <sup>3</sup> /day
Salt Conversion*	3.0 lb salt/lb FAC 3.0 kg salt/kg FAC	3.0 lb salt/lb FAC 3.0 kg salt/kg FAC
Energy Conversion*	3.0 kW-hr/lb FAC 6.6 kW-hr/kg FAC	2.0 kW-hr/lb FAC 4.4 kW-hr/kg FAC
FAC Concentration*	4,500 mg/L (+/- 1,000)	8,000 mg/L (+/- 1,000)
Flow Rate	1,200 gph 4,542 lph	
Nominal Energy to Unit	192 A 160 KVA	204 A 170 KVA
Electrical Service Requirement (OSG Only)	480 VAC, 3 ph, 400A, 50/60 hertz	
Air Temperature Required	45° to 110° F 7.2° to 43.3° C	
External Vent Makeup Air	2,400 cfm 68 cmm	
Internal Vent Energy Added	25.0 kW	
Recommended Feed Water Temperature*	50° to 80° F 10° to 26.7° C	
Allowable Feed Water Temperature*	40° to 95° F 5° to 35° C	
Feed Water Pressure	60 to 100 psi 414 to 689 kPa	
Approximate Dimensions (WxDxH)	98 x 41.5 x 80 inches 248.92 x 105.41 x 203.2 cm	

\*Performance may vary depending on salt quality, water quality, and water temperature.

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## RIO Grande Drawing



REFERENCE GENERAL ARRANGEMENT DRAWING 112-00011  
FOR INSTALLATION REQUIREMENTS

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