



RIO-S Self Cleaning MIXED OXIDANT Specifications

The RIO-S M Series produces Mixed Oxidant Solution (MOS) chemistry for water disinfection and is systematically optimized for ease of use, reliability, and performance. The RIO-S is modular which means MOS disinfection chemistry output can be easily expanded 4X without increasing the footprint. Leading the industry in salt and energy conversion with a transformer-less design, the RIO-S can ensure the lowest life-cycle cost for your facility. The unit operates with Allen Bradley MicroLogix 1400 controls, and is equipped with self-cleaning and self-adjusting flow control making the system virtually maintenance free.

	RIO-S M300	RIO-S M600	RIO-S M900	RIO-S M1200
Rated FAC Capacity	300 lbs/day 136 kg/day	600 lbs/day 272 kg/day	900 lbs/day 408 kg/day	1200 lbs/day 544 kg/day
Salt Conversion (SCE)*	3.0 lb salt/lb FAC 3.0 kg salt/kg FAC			
Energy Conversion (ECE)*	3.0 kW-hr/lb FAC 6.6 kW-hr/kg FAC			
FAC Concentration*	4,500 mg/L (+/- 1,000)			
Flow Rate^	380 gph 1438 lph	760 gph 2877 lph	1140 gph 4315 lph	1520 gph 5754 lph
Nominal Energy to Unit	61 A, 51 KVA	122 A, 101 KVA	183 A, 151 KVA	244 A, 202 KVA
Electrical Service Requirement (OSG Only)	480VAC, 3 ph 100A, 50/60 Hz	480VAC, 3 ph 200A, 50/60 Hz	480VAC, 3 ph 300A, 50/60 Hz	480VAC, 3 ph 400A, 50/60 Hz
Air Temp. Required	45° to 110° F 7° to 43° C			
Recommended Feed Water Temperature*	55° to 80° F 12° to 27° C			
Allowable Feed Water Temperature*	40° to 95° F 5° to 35° C			
Feed Water Pressure	50 to 100 psi 345 to 689 kPa			60 to 100 psi 414 to 689 kPa
Water Hardness	0 – 17 mg/L (1 grain/gallon)			
Maximum Silica Limit	20 mg/L			
Energy Add for Internal Vent	0.5 kW	1 kW	1.5 kW	2 kW
Approximate Dimensions (WxDxH)	66 x 57 x 81 inches (168 x 145 x 206 cm)			

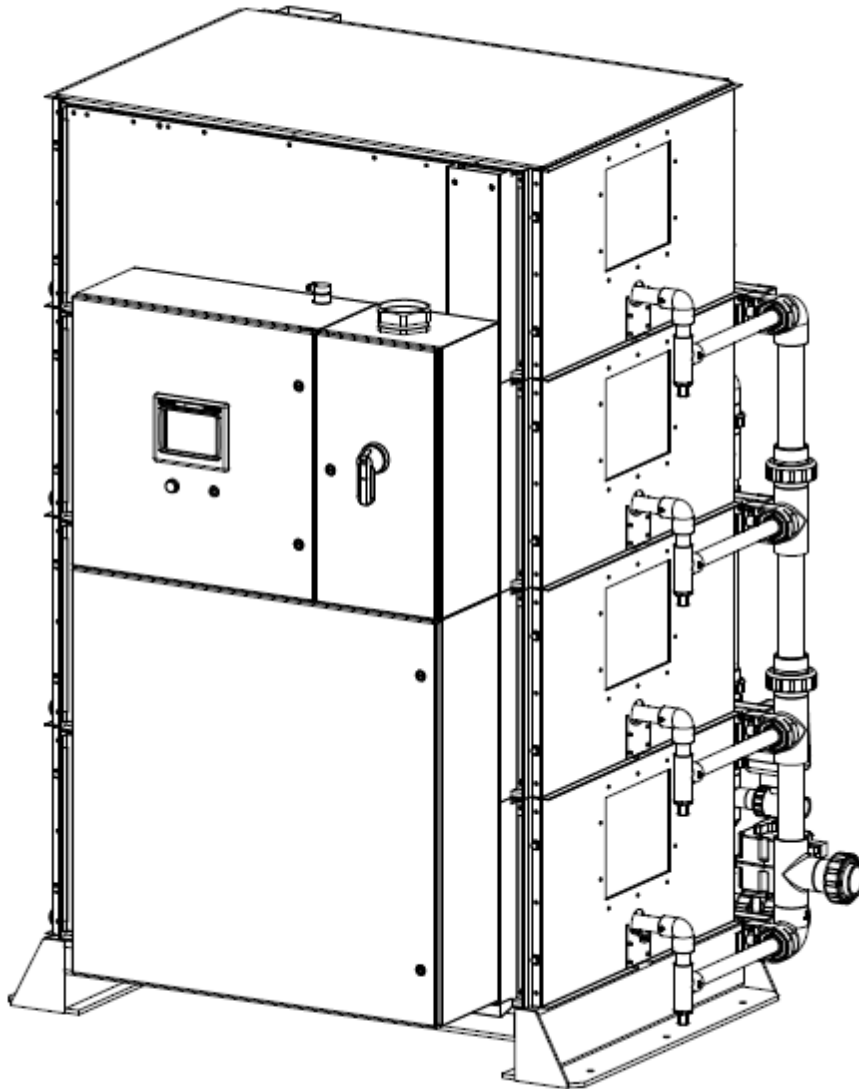
*Performance may vary depending on salt quality, water quality, water temperature and supply AC voltage.

^Feed water flow rate is subject to +/- 15% variation.

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RIO-S Drawing (1200 lbs Configuration)



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