



## 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 M250	RIO-S M500	RIO-S M750	RIO-S M1000
Rated FAC Capacity	250 lbs/day 113.5 kg/day	500 lbs/day 227 kg/day	750 lbs/day 340.5 kg/day	1000 lbs/day 454 kg/day
Salt Conversion (SCE)*	3.0 – 3.5 lb salt/lb FAC 3.0 – 3.5 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^	304 gph 1150 lph	608 gph 2300 lph	912 gph 3450 lph	1216 gph 4600 lph
Nominal Energy to Unit	61 A, 42 KVA	122 A, 84.5 KVA	183 A, 127 KVA	244 A, 170 KVA
Electrical Service Requirement (OSG Only)	400VAC, 3 ph 100A, 50/60 Hz	400VAC, 3 ph 200A, 50/60 Hz	400VAC, 3 ph 300A, 50/60 Hz	400VAC, 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	35 to 100 psi 241 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)			

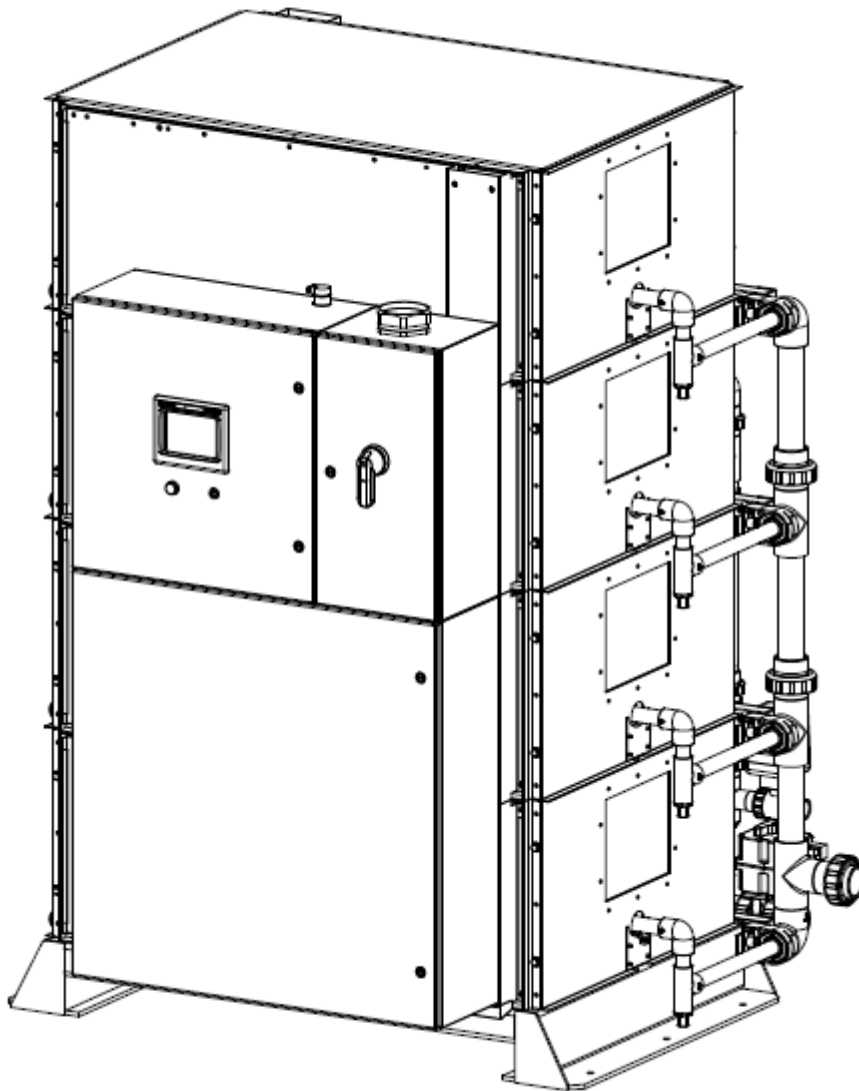
\*Performance may vary depending on salt quality, water quality, water temperature and supply AC voltage.

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

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## 400V RIO-S Drawing (1000 lbs Configuration)



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