



The **SAFEST WATER** In The World

# RIO™ H Series Specification

The RIO H Series produces hypochlorite solution for water disinfection. The electrolytic cell, power supply, and system controls are fully enclosed in a high density polyethylene (HDPE) cabinet with an aluminum frame. Capacity within a cabinet can be expanded 5X without increasing the footprint. The unit operates with Allen Bradley MicroLogix 1200 controls.

	RIO H1	RIO H2	RIO H3	RIO H4	RIO H5
<b>Rated FAC Capacity*</b>	100 lbs/day 45 kg/day	200 lbs/day 90 kg/day	300 lbs/day 136 kg/day	400 lbs/day 181 kg/day	500 lbs/day 227 kg/day
<b>Water Treatment Capacity (at 1 ppm FAC)</b>	12 MGD 45,425 m <sup>3</sup> /day	24 MGD 90,850 m <sup>3</sup> /day	36 MGD 136,275 m <sup>3</sup> /day	48 MGD 181,700 m <sup>3</sup> /day	60 MGD 227,125 m <sup>3</sup> /day
<b>Salt Conversion (SCE)</b>	3.0 lb salt / lb FAC (3.0 kg salt / kg FAC)				
<b>Energy Conversion (ECE)</b>	2.0 kW-hr / lb FAC (4.4 kW-hr / kg FAC)				
<b>Water Conversion</b>	15.0 gal water / lb FAC (125.0 L water / kg FAC)				
<b>FAC Concentration*</b>	8,000 mg/L ± 1,000				
<b>Flow Rate</b>	75 gph 284 lph	150 gph 568 lph	225 gph 852 lph	300 gph 1136 lph	375 gph 1420 lph
<b>Electrical Service per</b>	480 VAC, 3 ph, 100A				
<b>Nominal Energy to Unit</b>	13 A 11 KVA	26 A 22 KVA	39 A 33 KVA	52 A 44 KVA	65 A 55 KVA
<b>Frequency</b>	50 / 60 hertz				
<b>Amps to Cell (± 15%)</b>	225 A	450 A	675 A	900 A	1125 A
<b>Air Temp. Required</b>	45° to 115°F (7° to 46°C)				45° to 105°F (7° to 40°C)
<b>External Vent Makeup Air</b>	350 cfm (10 cmm)				
<b>Internal Vent Energy Added</b>	2.8 kW	5.6 kW	8.4 kW	11.2 kW	14 kW
<b>Feed Water Temp. Required</b>	50° to 80°F (10° to 26°C)				
<b>Feed Water Pressure</b>	60 to 100 psi ( 414 to 689 kpa)				
<b>Dimensions (WxDxH)</b>	61.9 x 42.6 x 86.1 inches (157.2 x 108.2 x 218.7 cm) per cabinet				
<b>Shipping Size (WxDxH)</b>	72 x 60 x 85 inches (182.8 x 152.4 x 215.9 cm) per cabinet				
<b>Shipping Weight</b>	1,650 lbs 743 kg	1,750 lbs 788 kg	1,850 lbs 833 kg	1,950 lbs 878 kg	2,050 lbs 923 kg

\* Production may vary depending on salt and water quality.

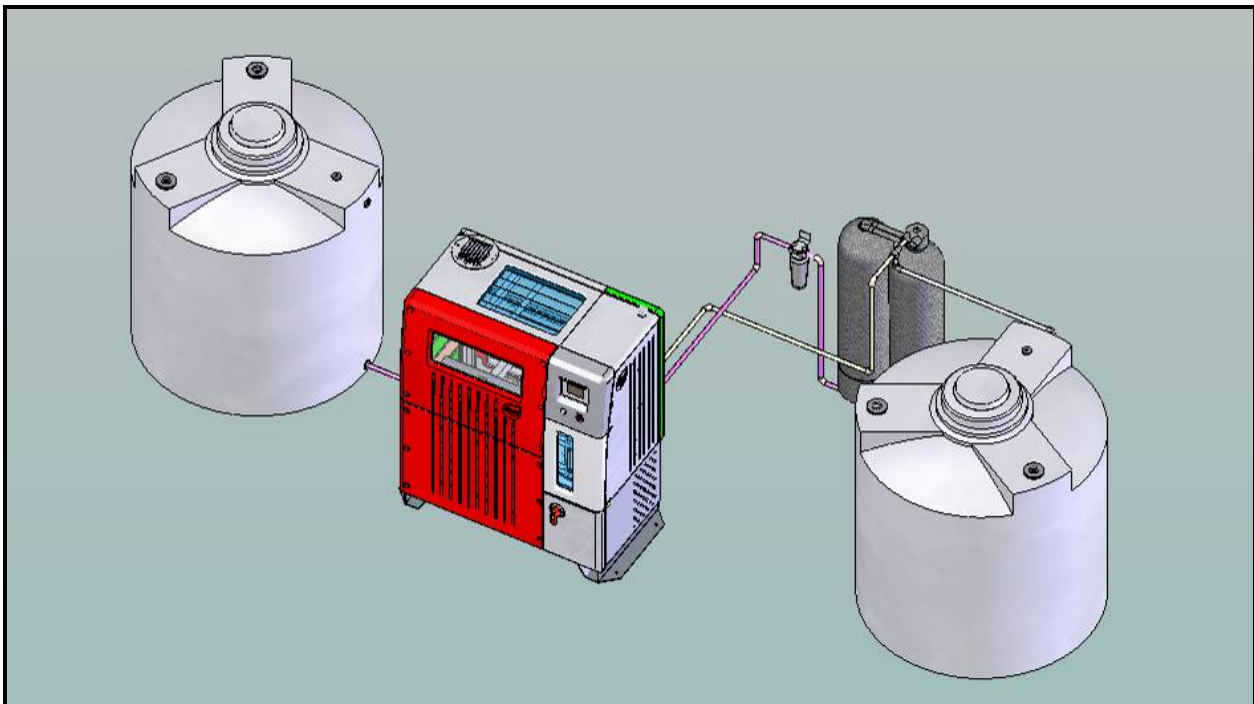
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## RIO H System



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