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

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

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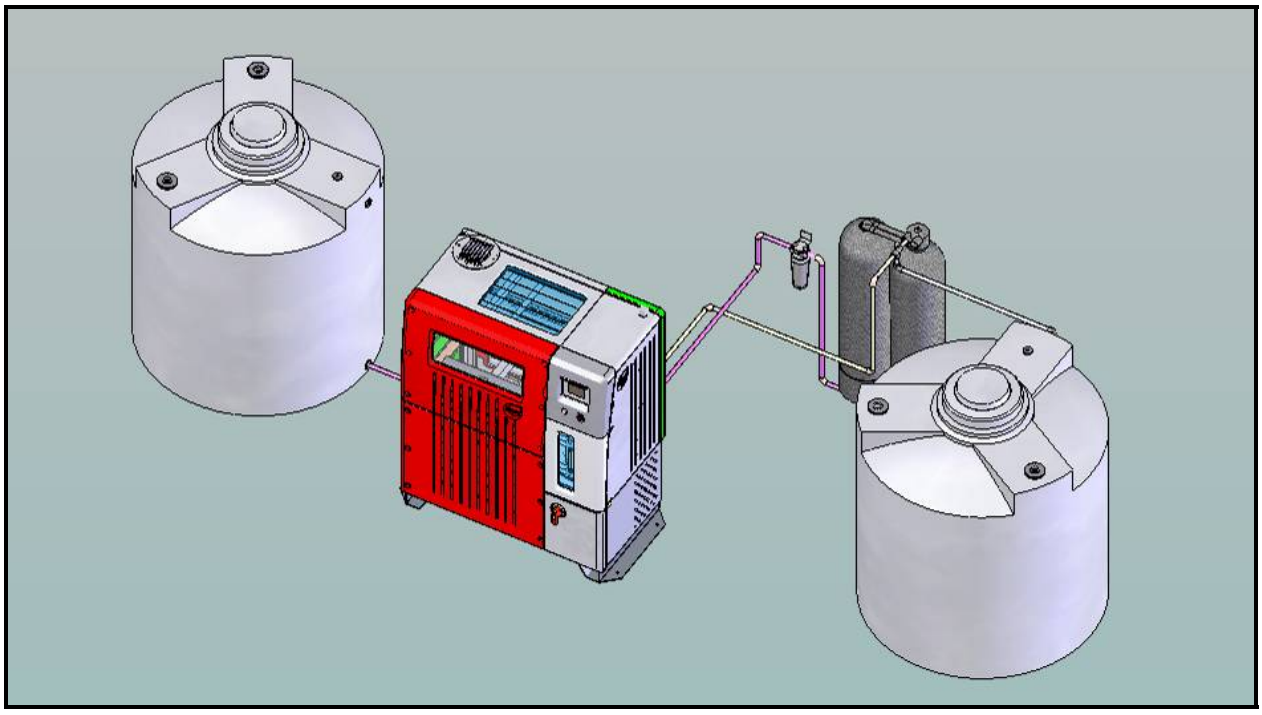
# RIO H System



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