

# RIO ZUNI QUICKSTART GUIDE



## IN THE BOXES



Specifications	RIO Zuni 1 PPD	RIO Zuni 2 PPD
Rated FAC Capacity	1.0 lb/ day 0.45 kg/ day	2.0 lb/ day 0.9 kg/ day
Water Treatment Capacity (at 1 ppm FAC)	120,000 gal/ day 454 m <sup>3</sup> / day	240,000 gal/ day 908 m <sup>3</sup> / day
Flow Rate (± 15%)	1.3 gph 4.9 lph	2.7 gph 10.2 lph
Self-Cleaning	YES	
FAC Concentration	4,000 ± 1,000 mg/L	
Water Hardness	0 – 51 mg/L	
Electrical Service Requirement (OSG Only)	110 VAC to 240 VAC, 1 ph, 4A rating (1 PPD) / 8A rating (2 PPD), 50/60Hz	
Salt Conversion (SCE)	3.0 - 3.5 lb/kg salt per lb/kg FAC	
Energy Conversion (ECE)	3.5 kW-hr per lb FAC 7.7 kW-hr per kg FAC	
Salt Quality Req.	99.5% NaCl or better <sup>^</sup>	
Hydrogen Venting	REQUIRED	
Air Temperature Req.	40°F to 120°F 4°C to 49°C	
Recommended Feed Water Temperature	55°F to 80°F 12°C to 27°C	
Allowable Feed Water Temperature Range	40°F to 95°F 4°C to 35°C	
Feed Water Pressure	1-75 psi 6.8 – 517 kPa	
Dimensions (WxDxH)	21" x 16" x 14" 53 cm x 41 cm x 36 cm	

## OSG INSTALLATION

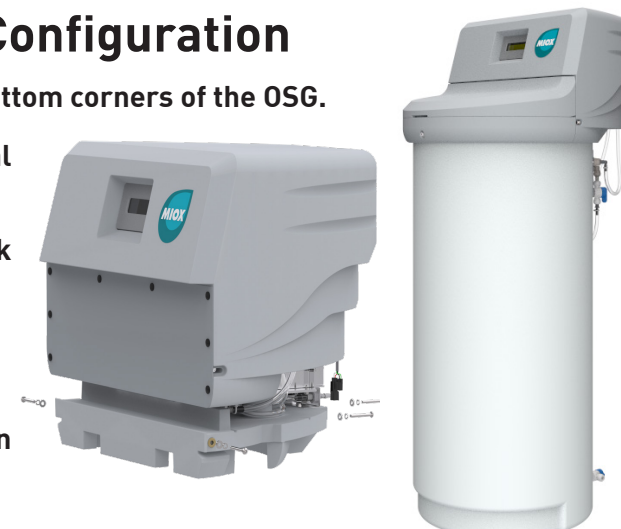
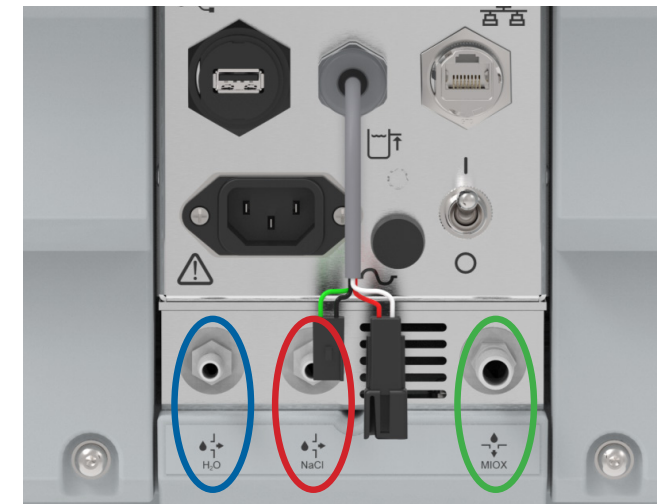
1. Unpack RIO Zuni OSG and all other components.
2. Install RIO Zuni OSG in its operational location:
  - See **A** for Tabletop configuration w/ inline pressure reducer.
  - See **B** for Integrated Brine Tank configuration.
3. Connect pressurized water source to brine tank.
4. Connect water and brine plumbing lines to the OSG.
5. Load salt in the brine tank.
6. Connect oxidant outlet on the OSG to the oxidant storage tank.
7. Install level switches into the oxidant tank and connect to OSG.
8. Install hydrogen venting to the oxidant tank and vent outdoors.
9. Attach power cord into an AC power outlet and the back panel of the OSG.
10. Open valves to water source and brine and water plumbing lines to OSG.
11. Wait 30 minutes to 1 hour for brine to fully saturate.
12. Flip the power switch on the back panel of the OSG.

### A Tabletop Configuration

1. Connect a pressurized water feed source to the 3/4" female NPT water inlet.
2. Connect the barb fitting from the Inline Pressure Reducer to the water inlet on the OSG.

### B Integrated Brine Tank Configuration

1. Remove four mounting screws on the bottom corners of the OSG.
2. Lift enclosure until it clears the electrical box assembly. Set aside.
3. Place OSG on top of integrated brine tank with inputs and outputs lined up. Make sure O-ring is properly seated on tank.
4. Return enclosure and bolt in place.
5. Secure salt lid to the tank using the nylon screw and washer.



## OPERATOR INTERFACE

During operation, the LED indicator and display on the front of the OSG constantly update with the operational conditions of the system. Information including system hours, cell hours, operational mod, cell current, inlet temperature and outlet temperature continuously cycle through the display when the system is in 'Run' mode.

### LED Indicator Meanings

- System in standby
- System in normal operation
- System in normal startup or shutdown
- System operating abnormally – check brine and salt supply
- System faulted and needs reset
- System faulted and will automatically restart

## BASIC TROUBLESHOOTING

Follow these steps if the MIOX RIO Zuni does not start normal operation after completing the priming cycle:

1. Confirm all plumbing lines are fully connected and valves are open.
  - OSG: Water IN, Brine IN, Oxidant OUT
  - Brine Tank: Water IN, Water OUT, Brine OUT
2. Check AC power is plugged into the outlet and OSG
3. Make sure level switch assembly is plugged into the OSG and installed correctly with both floats down
4. Turn OFF. Add more salt and/or wait 30 more minutes to allow brine to fully saturate. Then restart system.
5. Reset system. Turn OFF, wait 10 minutes, turn ON
6. Review the manual.
7. For more complicated issues, contact MIOX Service at 1-888-646-9457