



OBJECTIVE

Improve the quality of the water generated by the resort's reverse osmosis system by removing contaminants such as hydrogen sulfide, reducing dependence on hazardous chemicals, and automating process control.

INTRODUCTION

On-site, they have a 6,000 m³ cistern as the central water supply for all their facilities. Due to operational difficulties with their reverse osmosis water treatment, the resort adopted aiguaclor® chlorine-generating technology.

PROBLEM

Prior to the A-C2 system implementation, the following issues were identified:

- High consumption of chemical products
- Manual process control
- Presence of hydrogen sulfide (H₂S)
- Lack of water quality parameter monitoring



CONTACT

✉ info@hydrousmgmt.com

🌐 <https://hydrousmgmt.com/>

🌐 <http://www.linkedin.com/company/hydrousmgmtgroup>

✉ @HydrousGroup

📍 10700 Rockley Road, Houston, TX, 77099

REVERSE OSMOSIS WATER DISINFECTION RIVIERA MAYA-MÉXICO



SOLUTION

The aiguaclor® A-C2 electrochlorination system was installed, producing chlorine and free radicals from brine. This system:

- Automates water disinfection
- Enables remote parameter monitoring
- Eliminates the need for hazardous chemicals
- Oxidizes organic and inorganic matter, improving water clarity and quality

QUANTITATIVE AND QUALITATIVE BENEFITS

Quantitative:

- Significant monthly operational cost savings by removing the need to purchase, transport, and store hazardous disinfectants

Qualitative:

- Fully automated, real-time monitored process
- Improved visual water quality
- Elimination of hydrogen sulfide
- Increased operational safety
- Lower environmental and occupational risk
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INVESTMENT AND SAVINGS

The investment in the A-C2 system resulted in a fast payback through:

- Elimination of chemical-related expenses
- Improved operational efficiency
- Reduced risk and logistics costs, resulting in long-term sustainability and safety

CONCLUSION

The large hotel complex upgraded its 6,000 m³ reverse osmosis storage tank with on-site chlorine generation. The system eliminated hydrogen sulfide, reduced chemical use, and enabled remote quality monitoring.

