



Paradise Island, Bahamas

Atlantis Paradise Island Resort Locks In Full Upgrade Of Entire Inventory Of Pulsar® Chlorination Systems

LARGEST WATER PARK In The Caribbean

The world famous ocean-themed resort, Atlantis Paradise Island Bahamas, hosts a wide variety of accommodations built around its 141-acre Aquaventure waterscape, the largest water park in the Caribbean. It is consistently ranked among the top five most visited water parks in the world.

Maintaining safe water quality for its guests at all times and ensuring hygienic recreational quality water throughout its giant water park is of paramount importance. In addition to water sanitation, maintaining high water clarity, color and sparkle is also a must. It's a busy 24/7 operation.

COMPLETE UPGRADE Beginning in 2022

For chlorination, the Aquaventure complex has for almost nine years relied on Pulsar® calcium hypochlorite and Pulsar® calcium hypochlorite



feed systems to maintain consistently accurate water sanitation. Now, the resort's management and Solenis – owners of the Pulsar® brand of water treatment products – have partnered under an exclusive equipment supplier agreement to fully upgrade the resort's entire inventory of Pulsar® chlorination systems and other equipment. The partnership's aim is to further optimize performance as well as meet the resort's anticipated future needs and requirements.

AQUAVENTURE WATERSCAPE

A Brief Overview Of A Water Paradise

The complexities of operating multiple water treatment systems for a wide array of water recreation applications can be challenging. The number of water features making up Atlantis Paradise Island's Aquaventure Waterscape is staggering – 11 resort-sized swimming pools and more than a dozen highly sophisticated water slides, including the 120-foot-tall Power Tower slides and the six-stories-high Mayan Temple slides. The Aquaventure waterscape also boasts a one-mile-long (1.6-kilometre) river ride complete with waves, artificial tidal surges, rapids and waterfalls.

Director of Water Quality Keno Lockhart is responsible for the water quality of more than 25 million gallons of water on the Atlantis property. In addition to maintaining all swimming pools, water rides, slides, fountains and other water recreation attractions for the resort, Lockhart is also in charge of maintaining the life support systems for all the aquariums, dolphin exhibits and other marine life habitats on the property. Atlantis is home to 14 man-made lagoons and more than 50,000 aquatic animals representing over 250 marine species.

Lockhart oversees a staff of approximately 150 people. Approximately half deal directly with water management for pools, slides, and water rides, and the other half deals with water operations for the aquariums and marine life habitats on the property.

FINDING THE RIGHT WATER SANITIZER

Sometimes Takes Time

Lockhart has been with the marine division of the Atlantis Paradise Island resort for 23 years and has seen a number of water sanitization methods carried out here over the years.

"When I first started, they were using ozone and bromine for the pools and then we converted to salt generators for a while,

The improved performance of the Pulsar® system compared to our then-current calcium hypochlorite feed units convinced us to switch all our sites to Pulsar® chlorination systems

Kino Lockhart, Director of Water Quality
Atlantis Paradise Island Resort



but we experienced many problems with the equipment,” he says. “Then, we finally moved to calcium hypochlorite and that solved a lot of problems for us.” Calcium hypochlorite is the only sanitation method that chlorinates, removes organics and metals, boosts hardness and shock treats in one process. The only major issue the resort staff found after converting to Cal Hypo was the all-too-frequent and time-consuming cleanings the conventional cal hypo erosion feeders required. The feeders would clog up and need to be cleaned frequently.

Nine years ago Lockhart and his team ran a trial using a Pulsar® Cal Hypo feed system and specially formulated Pulsar® Plus calcium hypochlorite briquettes, pillow-shaped slow dissolving briquettes having 65% available chlorine. The briquettes contain a scale inhibitor designed to reduce maintenance and improve reliability of the Pulsar® Chlorinator Systems.

“The improved performance of the Pulsar® system compared to our then-current calcium hypochlorite feed units convinced us to switch all our sites to Pulsar® chlorination systems,” Lockhart says.



PULSAR® MEETING THE CHALLENGE

Of Recreational Water Sanitation

Since the conversion to Pulsar®, chlorination operations at the resort’s aquatic facilities have run smoothly. Pulsar® chlorination systems provide demand-based chlorination that automatically adds only the amount of chlorine that a pool needs to protect guests and keep the water clear and shiny. Every day, the systems reliably meet the needs of the resort’s pools, fountains, rides, and more.

The performance following the switch was such an improvement at its fresh water pools and attractions, the resort switched from using sodium hypochlorite to Pulsar® chlorination for its dolphin habitat, a 14-acre, 6 million plus gallon expanse of clear seawater and home to 40 dolphins. It is one of the most sophisticated marine habitats and animal rescue-rehabilitation facilities in the world. Pulsar® systems provide the very precise dosing required to keep the dolphins safe from pathogens while also minimizing their exposure to free available chlorine levels.



NEW SYSTEMS & EQUIPMENT

At No Up-Front Capital Costs

Lockhart and his team are continuously looking at new water treatment, filtration, monitoring and testing technologies to identify ways to further enhance the performance and efficiency of their operation. This means they are also continuously assessing their existing equipment and systems.

To that end, Atlantis Paradise Island Bahamas is changing out its entire inventory of Pulsar® calcium hypochlorite feeders with new generation feed systems as part of a Pulsar® Package Solution. This package agreement includes new feeders, ORP controllers, Pulsar® dry acid feed systems and a full Pulsar® Chemical Package. The resort is acquiring these new systems and equipment with no up-front capital costs.

THE PULSAR® PACKAGE SOLUTION

Further Improves Resort's Operation

The decision to go with the Pulsar® Package Solution began last year with a conversation at the Atlantis Paradise Island Resort between Lockhart and Ricardo Galeano, Pulsar's Regional Sales Manager for the Caribbean. They discussed the resort's equipment and delivery times of chemical.

"He invited me to a conference Pulsar sponsored where I learned more about the company's newest technology and what the company could do to further improve our systems and chemical supply, Lockhart says."

Following the conference, Solenis assumed direct responsibility for the resort's Pulsar® account. Solenis offered to install at the Atlantis Paradise Island Resort all new cal hypo and acid feed systems, ORP controllers and water chemistry monitoring equipment at no up-front capital costs in exchange for chemical consumption. The resort accepted the offer.

AN EFFECTIVE PARTNERSHIP

For The Long Term

"We were certainly not unhappy with the performance of our existing Pulsar® equipment, but the new systems and features we are getting through this partnership are a significant improvement over what we currently have," Lockhart says. "In addition to all new equipment and a steady supply of chemical, Solenis is providing members of our staff advanced water chemistry training to earn their Certified Pool Operator certificates, which makes this package even better."

In addition, Keno Lockhart and his staff at the Atlantis Paradise Island Resort are now dealing directly with the manufacturer of the chemical feed systems and the chemical, providing Leno Lockhart and his staff further confidence in their daily operations.

"This is a very favorable arrangement for us," he says.



www.pulsarsystems.net
1.800.4.PULSAR