



Solaz Resort, Cabo San Lucas, Mexico

Luxury Resort Recruits Rain Bird to Optimize Irrigation & Conserve Natural Resources

Solaz Resort is known for its stunning views, contemporary architecture, eco-friendly landscaping, and seamless integration with the local environment. Jorge Caramanos, of the Larena Group, is in charge of irrigation and management of 51,000 square meters of garden on the property.

THE CHALLENGE:

Caramanos has many environmental factors to contend with at Solaz. Los Cabos gets 320 days of sunshine and less than 10 inches of rain each year. Fresh water in Cabo is scarce, which is why Solaz has its own greywater treatment plant. The treated water used for the garden is rough on irrigation, leading to clogs in the existing drip hoses. To further complicate things, the topography of the resort comes with its own unique challenges; steep garden slopes are susceptible to erosion and causing wasteful runoff, while salt from the ocean is causing damage to vegetation closest to the sea.



Core Products Used:

- [XFS Subsurface Dripline with Copper Shield™ Technology](#)
- [1800° Series SAM Sprays](#)
- [R-VAN Rotary Nozzles](#)
- [FS Series Flow Sensors](#)
- [ESP-LXD Series Two-Wire Decoder Controllers](#)
- [Rain Bird Central Control](#)
- [150 PESB-R Valves](#)

THE SOLUTION:

Lean on the experts at Rain Bird to design a water-conscious irrigation system that's flexible, low-maintenance, easy to operate, and aesthetically pleasing. Landscaping is a huge part of the experience at Solaz. Rely on Rain Bird's irrigation knowledge and experience to transform the resort's greatest challenge into one of its greatest strengths.

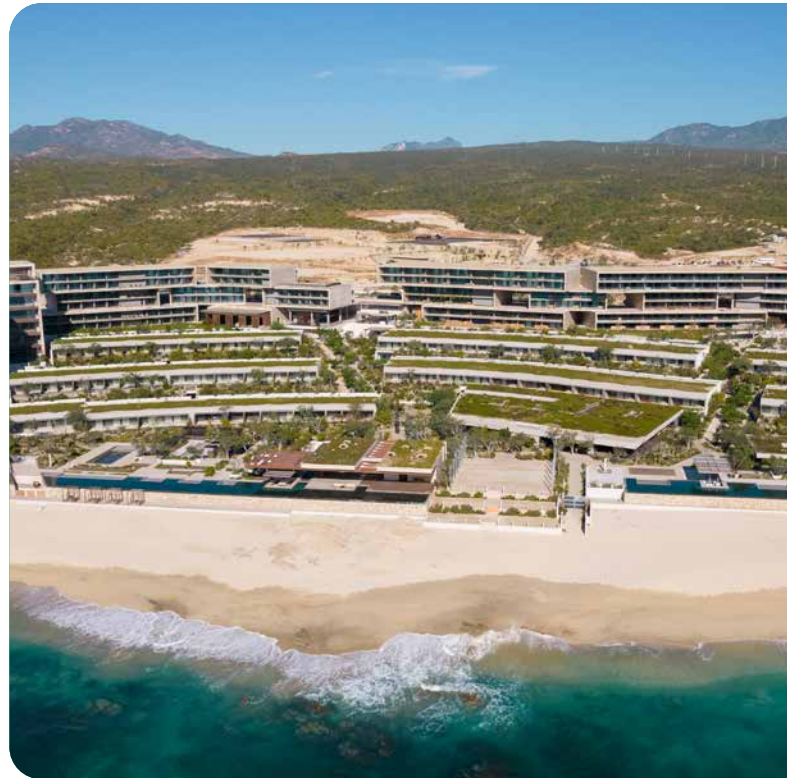
KEY OBJECTIVES

- ✓ **Water Conservation**
- ✓ **Long Term Sustainability**
- ✓ **Elevated Guest Experience**
- ✓ **Minimal Maintenance**



APPROACH:

- Install a subsurface dripline to prevent runoff, minimize erosion and hide unattractive equipment. Use the **XFS Subsurface Dripline with Copper Shield™** Technology to protect the emitter from root intrusion, creating a long-lasting, low maintenance, hidden irrigation system.
- Install durable **1800® Series SAM Sprays** with **R-VAN Rotary Nozzles** in areas near the ocean to prevent harmful salt buildup on water-front landscaping.
- Manage each valve from one single controller with the use of **ESP-LXD Series Two-Wire Decoder Controllers**, designed for optimal flow management, system transparency, and maximum convenience.
- Connect water meters and **FS Series Flow Sensors** for accurate flow monitoring and leak detection
- Use **150 PESB-R Valves** to resist clogging and handle chlorine and chemicals found in reclaimed water systems.



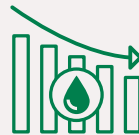
RESULTS:

Together, Jorge Caramanos and the Rain Bird team achieved incredible results for the Solaz Resort. Here's what Mr. Caramanos had to say about the experience:



A Native Garden with an Invisible Irrigation System

"We have a dripline, but people can't see it because the hoses are hidden. We have achieved something great. We have a very different garden from all the others in the area."



Conservation of Precious Resources

"The most impactful aspect of this project is the hose with copper plate technology—Copper Shield—which has allowed us to **save between 30-40%** in terms of water consumption. We now use water in a smarter way...it's a considerable difference."



Maximum Efficiency, Minimal Maintenance

"The water savings is massive and maintenance costs are very low. After three years, we have invested practically nothing. Unless we hit the hose and have to fix it, they don't suffer any damage. Everything has worked perfectly."



“ We are all happy. We optimized resources. We reduced maintenance. We are environment-friendly. We have healthy vegetation. That's sustainability...to make the most of the resources we have.

JORGE CARAMANOS
LARENA GROUP, LANDSCAPE COORDINATOR