



Expo 2020 Dubai, United Arab Emirates

Rain Bird® Delivers Top-of-the-Line Irrigation System for Prestigious Global Mega-Event

Historically, exhibitions have showcased the greatest innovations shaping the world. Dubai continues this tradition in a big way with Expo 2020. The 438-hectare (1083-acre) exhibition site includes pavilions, sports facilities, performing arts venues, incredible architecture and expansive greenspace.

THE CHALLENGE

Superior irrigation technology is a top priority for this high-profile expo that puts Dubai in the global spotlight. All solutions need to be durable and efficient to perform well in Dubai's hot, dry location, where only treated sewage water is available for irrigation. Plus, watering must be managed from one secure control system that integrates with the expo's existing building management system.



1804-SAM-PRS-45 Spray Heads

THE SOLUTION:

Best-in-class Rain Bird® components will meet exact customer specifications for irrigating all greenspaces and landscaping throughout the Expo 2020 grounds. Dividing the watering into 49 separate zones will ensure each space receives the precise amount of water required. An innovative control system will enable secure remote management.

KEY OBJECTIVES

- ✓ Utilize Top-Tier Components
- ✓ Conserve Available Water
- ✓ Withstand Reclaimed Water Debris
- ✓ Control Securely From One Location

Core Products Used:

- [1804-SAM-PRS-45 Spray Heads](#)
- [VAN Series Nozzles](#)
- [PEB Series Valves](#)
- [XFS Subsurface Dripline](#)
- [IQ™ Central Control](#)
- [ESP-LXD Series 2-Wire Decoder Controllers](#)
- [4G Cellular Cartridge](#)



Site Report: **Expo 2020 Dubai, United Arab Emirates**

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APPROACH:

Deliver World-Class Quality

The Rain Bird team will install the best-available components for this world-class project. The **1804-SAM-PRS-45 Spray Head**, the #1 commercial-grade irrigation spray head in the world, will provide superior distribution uniformity and unmatched precision that conserves water. Adjustable **VAN Series Variable Arc Nozzles** will effectively water landscaping of various shapes and sizes, including corners. Durable **PEB Series Solenoid Valves** will offer reliable performance even with the site's reclaimed water.

Customize for Each Area

XFS Subsurface Dripline will be the ideal solution for landscaping that is near footpaths. This will ensure adequate watering without spraying pedestrians or damaging any hardscape. XFS Subsurface Dripline is available in a variety of emitter flow rates, emitter spacing, and coil lengths, for maximum design flexibility throughout the Expo 2020 grounds.

Enable Secure, Centralized Control

Rain Bird's **IQ™ Central Control** system will enable convenient control of all zones while meeting the site's tight security protocols. Installing forty-nine (49) **EXP-LXD Series 2-Wire Decoder Controllers** with communication and ethernet cartridges will provide secure access via the web and approved mobile devices. Rain Bird's **Global Service Plan (GSP)** will ensure that irrigation managers have easy access to training resources and dedicated tech support should any questions arise.



IQ4 Central Control

RESULTS:

Reliable, Sustainable Performance

The Expo 2020 greenspaces and landscaping matched the high caliber of the event's innovations and architecture. The industry-leading Rain Bird technology and components will deliver reliable performance for years to come, as the area takes on new life as a combined commercial and residential area. They will also contribute to the site's sustainability goals by making efficient use of available water in the hot, dry climate.